

Agenda

Presented by Robert F. Sweeney

Overview of Onsite Wastewater Treatment Technologies

- Technology and operation of conventional wastewater treatment systems
- Problems with conventional onsite systems
- Recent scientific and technical advances
- Performance-based management of systems

Regulation, Permitting and Sustainability of Onsite Wastewater Treatment Systems

- Federal, Oregon and local regulation of systems
- Working with the Oregon Department of Environmental Quality and local municipalities
- Coordinating system regulation with surface and groundwater regulations
- Treatment of systems under LEED certification systems
- Permit requirements and procedures

Evaluating Sites and Setting Treatment Goals

- System boundaries and loadings
- Analyzing the receiving environment
- Evaluating landscape and soil types
- Nitrogen and pathogen removal
- Treatment/removal of phosphorus and other pollutants
- Mapping the site

Conventional Treatment System Selection and Design

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|--|--------------------|
| Factors for selecting and sizing systems | |
| Design considerations | System performance |
| Initial system design | |

Alternative and Sustainable Treatment Technologies

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|--|---------------------------|
| Aerobic treatment systems | |
| Peat biofilter wastewater treatment systems | |
| Drip dispersal wastewater disposal systems | |
| Fixed-activated sludge treatment | |
| Recirculating sand filters | Trickling filters |
| Sequencing batch reactors | Vegetated submerged beds |
| Evapotranspiration | Enhanced nutrient removal |
| Stabilization ponds and constructed wetlands | |

Management Program for Onsite Wastewater Treatment Systems

- | | |
|-----------------------|------------------------------|
| Monitoring of systems | Developing maintenance plans |
| Inspection procedures | Repair options |

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Oregon Onsite Wastewater Treatment Systems

Live, Interactive Webinar - Friday, July 12, 2024

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PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

- Explore** recent scientific and technical advances in onsite wastewater treatment.
- Coordinate** system regulation with surface and groundwater regulations.
- Evaluate** sites and set treatment goals.
- Set** goals for treating and removing pollutants, including for removal of phosphorus and other pollutants.
- Compare** conventional treatment systems to alternative technologies such as aerobic treatment systems, peat biofilter treatment and drip dispersal wastewater disposal systems.
- Get tips on** system management and monitoring.



HalfMoon Education Inc.,
Your LIVE Education Leader Presents

Oregon Onsite Wastewater Treatment Systems

Live, Interactive Webinar - Friday, July 12, 2024



- | | |
|--|---|
| Explore recent scientific and technical advances in onsite wastewater treatment | Evaluate sites and set treatment goals |
| Comply with federal, Oregon and local regulations of onsite wastewater systems | Review conventional treatment systems and alternative treatment technologies |

Continuing Education Credits

- | | |
|---|--|
| Professional Engineers
6.5 PDHs | International Code Council
.65 CEUs (Building) |
| Architects
6.5 HSW CE Hours
6.5 AIA LU HSW | |



Webinar Information

Online - Friday, July 12, 2024

Log into Webinar 8:00 - 8:30 am PDT	Break 12:00 - 12:30 pm PDT
Morning Session 8:30 am - 12:00 pm PDT	Afternoon Session 12:30 - 4:00 pm PDT

Tuition
\$339 for individual registration.
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Faculty

Robert F. Sweeney
President, Environmental Management Systems, Inc.
Mr. Sweeney has been the president of Environmental Management Systems, Inc., since 1997. EMS specializes in assisting property owners with development due diligence, environmental design and regulatory compliance goals. His areas of performance include on-site wastewater treatment, site and soils evaluation, wetland delineation and mitigation, drainage and a wide range of environmental consulting services. Mr. Sweeney focuses on site evaluation, soil profiling, design of treatment systems, inspection, certification, and performance monitoring. He has 46 years of experience providing expertise in public health and environmental protection programs including disaster preparedness, epidemiology, food protection, water quality, solid waste management, public health education, erosion and sediment control, wastewater treatment system design, wetlands delineation, water system evaluations, environmental assessments, biological assessments, treatment system maintenance and performance monitoring. Over the past 20 years, the firm has completed over 2,000 projects, ranging from environmental site assessments to geologic hazard studies and onsite wastewater treatment systems treating 250 to over 75,000 gallons/day.

Credit Information

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers and 6.5 HSW continuing education hours for licensed architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider License No: CEA362), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.5 LU | HSWs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

On-Demand Credits
The preceding credit information only applies to the live presentation. This course in an on-demand format is not pre-approved by any licensing boards and may not qualify for the same credits; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:
6.5 HSW LUs (AIA)

Additional Learning

Oregon Water Rights and Regulations
Online | Thursday, June 6, 2024 | 8:30 am - 4:30 pm PDT
Credits: Professional Engineers: 6.5 PDHs | Geologists: 6.5 PDHs
Attorneys: Pending Approval for 6.5 General CLE Hours

Agenda Topics:

- Understanding Oregon Surface Water and Groundwater Rights
- Complying with Water Quality Regulations
- Ethical Issues in Water Use and Regulation
- Water Utility Regulation
- Agricultural Water Use

Presented by
Elizabeth Howard *Shareholder at Schwabe, Williamson & Wyatt, P.C. in Portland*
Sarah R. Liljefelt *Attorney at Dunn Carney LLP in Portland*
Maureen S. Bayer *Shareholder at Jordan Ramis PC in Portland*
Nellie Barnard *Shareholder at Schwabe, Williamson & Wyatt, P.C. in Portland, OR*
Rosalyn DiLillo *Knock Associate with Schwabe, Williamson & Wyatt, P.C. in Seattle, WA*
Irion A. Sanger *Attorney at Sanger Law PC in Portland, OR*
Natascha Smith *Assistant Attorney General with the Oregon Department of Justice, General Counsel Division, Business Activities Section*
Brian R. Sheets *Owner of BRS Legal, LLC, in Ontario, OR*

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Seismic Design and Construction
- Online | Thursday, May 23, 2024 | 6:30 am - 3:00 pm PDT

Understanding the NSPE Engineering Code of Ethics
- Online | Monday, June 3, 2024 | 9:00 - 10:00 am PDT

Residential Site Design
- Thursday, June 6, 2024 | 6:30 am - 2:00 pm PDT

HydroCAD for Hydrologic and Hydraulic Modeling
- Online | Monday, June 10, 2024 | 7:00 - 9:00 am PDT
- Online | Monday, June 17, 2024 | 7:00 - 9:00 am PDT
- Online | Monday, June 24, 2024 | 7:00 - 9:00 am PDT

Obtaining Phase 1 and Phase 2 Environmental Site Assessments
- Online | Monday, June 10, 2024 | 7:00 - 9:00 am PDT

Scaffold Design and Use in Construction
- Online | Friday, June 14, 2024 | 7:00 - 10:15 am PDT

Trenching and Excavation Safety in Construction
- Online | Friday, June 14, 2024 | 11:00 am - 2:15 pm PDT

Brownfields Assessments, Grants and Redevelopment Opportunities
- Online | Tuesday, June 25, 2024 | 8:00 - 10:00 am PDT

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