Agenda

Presented by Robert Rubin

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, South Carolina, and local regulation of systems
- Working with the South Carolina Department of Health and Environmental Control and local municipalities
- Coordinating system regulation with surface and groundwater regulations
- Treatment of systems under LEED certification systems
- Permit requirements and procedures
- Permitting 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
- Factors for selecting and sizing systems
- Design considerations
- System performance
- Initial system design

Alternative and Sustainable Treatment Technologies
- 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

Learning Objectives

You’ll be able to:

Explore recent scientific and technical advances in onsite wastewater treatment.

Comply with federal, South Carolina, and local onsite wastewater regulations.

Evaluate sites and set treatment goals.

Discuss selection and design of conventional treatment systems.

Explore alternative and sustainable treatment technologies, including aerobic treatment systems, drip-dispersal systems and recirculating sand filters.

Monitor and maintain onsite wastewater treatment systems.

HalfMoon Education Inc.,
Your LIVE Education Leader Presents

South Carolina Onsite Wastewater Treatment Systems

Live, Interactive Webinar - Friday, July 12, 2024

Examine onsite wastewater treatment technologies
Discuss regulation, permitting and sustainability of onsite wastewater treatment systems
Learn about evaluating sites and setting treatment goals

Study conventional treatment system selection and design
Explore alternative and sustainable treatment technologies
Get tips on monitoring of systems and developing maintenance plans

Continuing Education Credits

Professional Engineers
6.5 PDHs

Architects
6.5 HSW CE Hours
6.5 AIA LU|HSW

International Code Council
.65 CEUs (Building)
Webinar Information

Online - Friday, July 12, 2024

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8:00 - 8:30 am EDT
Break
12:00 - 1:00 pm EDT
Morning Session
8:30 - 12:00 EDT
Afternoon Session
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Faculty

Robert Rubin
A.R. Rubin and Associates in Pittsboro, North Carolina
Dr. Rubin is an emeritus professor in the Biological and Agricultural Engineering Department at North Carolina State University. He has published in scientific journals and popular press on issues related to wastewater and biosolids treatment, solid waste management, stormwater management and ISO 14000 environmental management systems addressing the animal industry. Dr. Rubin was a visiting scientist at the U.S. Environmental Protection Agency (EPA) in Washington D.C. from 1999 through 2005. He was active in development of guidelines for wastewater and biosolids management at USEPA. Dr. Rubin is currently president of A.R. Rubin and Associates, a consulting firm dedicated to evaluation and assessment of sustainable resource management and recovery solutions.

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 South Carolina.

The South Carolina Board of Registration for Professional Engineers and Surveyors does not pre-approve specific continuing education programs or providers.

The American Institute of Architects Continuing Education System has approved this course for 6.5 HSW LUs (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).

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Additional Learning

Residential and Small Commercial
Timber Frame Design and Construction
- Tuesday, June 11, 2024 | 9:00 am - 4:30 pm CDT
Scaffold Design and Use in Construction
- Friday, June 14, 2024 | 9:00 am - 12:15 pm CDT
Trenching and Excavation Safety in Construction
- Friday, June 14, 2024 | 1:00 - 4:15 pm CDT
Benchmarking and Building Performance Standards: Addressing Climate Change and Equity in the Built Environment
- Monday, June 17, 2024 | 9:00 am - 4:00 pm CDT
Designing to Withstand Tornado Loads on Buildings
- Monday, July 17, 2024 | 9:00 am - 4:00 pm CDT
Introduction to the National Environmental Policy Act (NEPA)
- Tuesday, June 18, 2024 | 9:00 am - 4:00 pm CDT
Mastering RFQ & RFP Responses: Crafting Winning Proposals
- Tuesday, June 18, 2024 | 1:00 - 3:00 pm CDT
Environmental Law for Engineers
- Thursday, June 20, 2024 | 8:30 am - 3:20 pm CDT
Moisture-Resistant Buildings
- Thursday, June 20, 2024 | 9:00 am - 4:00 pm CDT
Designing for Accessibility under ADA Standards and IBC
- Friday, June 21, 2024 | 8:30 am - 4:30 pm CDT
Brownfields Assessments, Grants and Redevelopment Opportunities
- Tuesday, June 25, 2024 | 10:00 am - 12:00 pm CDT
Elevating Homes for Flood Resistance
- Tuesday, June 25, 2024 | 9:00 am - 4:00 pm CDT
Generation Interconnection under the RTO Model and Changes Coming from Order 2023
- Tuesday, June 25, 2024 | 2:00 - 4:00 pm CDT
Passive House Design and Construction
- Wednesday, June 26, 2024 | 9:00 am - 4:30 pm CDT
Modular Design and Construction
- Tuesday, July 2, 2024 | 1:00 - 3:00 pm CDT
Roadmap to Ethical Issues in Construction: A Primer for Design Professionals
- Tuesday, July 16, 2024 | 11:00 am - 1:00 pm CDT

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