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

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Onsite Wastewater

Carolina

South

2024

Friday, July 12,

Interactive Webinar

Systems

Treatment

HalfMoon Education Inc. PO Box 278 Altoona, WI 54720-0278



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

Log into Webinar Break

8:00 - 8:30 am EDT 12:00 - 1:00 pm EDT

Morning SessionAfternoon Session8:30 - 12:00 EDT1:00 - 4:30 pm EDT

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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 guiz 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

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 Tornadic Loads on Buildings

- Monday, June 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

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