Onsite Wastewater Treatment in Maine

Presented by Russell G. Martin

Seminar Agenda

Development of Onsite Wastewater Treatment Technologies
- History of onsite wastewater treatment
- Domestic wastewater quality and quantity
- Current technology and operation of wastewater treatment systems
- Recent scientific and technical advances
- Performance-based management of systems

Regulation and Permitting of Onsite Wastewater Treatment Systems
- State and local regulation of systems
- Coordinating system regulation with surface and groundwater regulations
- 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
- Mapping the site

Soil as a Wastewater Treatment Medium
- Texture
- Consistence
- Color
- Limiting Factors

Conventional and Alternative Treatment Technologies
- Septic tanks
- Stone disposal areas
- Proprietary devices
- Aerobic treatment systems
- Peat bioterror wastewater treatment systems
- Drip dispersal wastewater disposal systems
- Recirculating sand filters
- Constructed wetlands

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

Management Program for Onsite Wastewater Treatment Systems
- Monitoring of system
- Developing a maintenance plan
- Inspection procedures
- Repair options

Learning Objectives

You’ll be able to:
- Examine the regulation and permitting of onsite wastewater treatment systems.
- Evaluate sites, including landscape and soil types.
- Review conventional septic tank treatment technology.
- Evaluate alternative treatment technologies such as aerobic treatment systems and drip dispersal systems.
- Explore factors for selecting and sizing systems.
- Review development of system maintenance plans.

Portland, ME
Tuesday, March 24, 2015

Study the development of onsite wastewater treatment technologies
Explore regulation and permitting of onsite wastewater treatment systems
Evaluate sites and soil types
Examine conventional and alternative treatment technologies
Review factors for selecting and sizing systems
Develop maintenance programs

Continuing Education Credits
Architects
- 6.5 Contact Hours (HSW)
- 6.5 AIA HSW Learning Units
Professional Engineers
- 6.5 PDHs
Wastewater Site Evaluators, Septic System Inspectors & Septic System Installers
- 6.5 Credit Hours
Contractors
- Voluntary Cont. Ed.
Why Attend a Live Seminar?

• Live seminars offer huge potential for networking opportunities.
• You can share ideas and hear different viewpoints from other like-minded individuals in your field.
• You are engaged in your learning experience as you interact face-to-face with our expert faculty.
• Instructors respond directly and completely to your questions and concerns.

Additional Learning

Winter Webinar Series

Small Wind Energy Systems Series
A two-part, two-day webinar series presented January 27th and 28th, 2015

Solar Electric Energy Series
A four-part, two-part webinar series presented January 28th & 29th or February 5th & 26th, 2015

Visit www.halfmoonseminars.org/webinars for more information and to register.

CD/Manual Package

An audio recording of this seminar is available for $279 (including shipping). Allow five weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

About the Seminar

Continuing Education Credit Information

This seminar is open to the public and offers up to 6.5 HSW contact hours to architects and 8.5 PDHS to professional engineers in most states, including Maine engineers.

The American Institute of Architects has approved this event for 6.5 HSW Learning Units (Sponsor No. J865).

HalfMoon Education is an approved continuing education sponsor for architects in Florida and is deemed an approved sponsor in New York. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Louisiana, Maryland, New Jersey (Approval No. 24GP0005700), New York (NYSED No. 35), North Carolina, and North Dakota. Due to Maine-specific content, New York architects and engineers can claim only 5.5 continuing education hours.

The Maine Department of Health and Human Services has approved this course for 6.5 continuing education credit hours for site evaluators, septic system inspectors, and septic system installers. This seminar also offers a continuing education opportunity to contractors, but it has not been submitted for approval to any state contractor licensing entity.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

How to Register

Online:
www.halfmoonseminars.org

Phone:
715-835-5900

Fax:
715-835-6066

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

Complete the entire form. Attach duplicates if necessary.

Registration

Online:
www.halfmoonseminars.org

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Onsite Wastewater Treatment in Maine

Tuition

$249.00 each.

Three or more simultaneous registrations for individuals in the same company: $269.00 each.

Standard Tuition

$249.00 for individual registration

$249.00 for three or more simultaneous registrations.

Cancellations: Cancel at least 48 hours before the start of the seminar (CDT), and receive a full tuition refund, minus a $39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the CD/manual package. You may also send another person to take your place.

Cancellation Terms

Refunds will not be issued within 48 hours of the course start date. After this time, no refunds will be issued. Tuition costs are non-refundable except as noted above.

Attendance

Attendance will be monitored, and attendance certificates will be issued to all registrants. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Sponsors

This seminar is offered in cooperation with the Maine Department of Health and Human Services and the Maine Chapter of the National Association of Sewerage Disposal Contractors (NASC). It is also sponsored by the Wisconsin Onsite Water Treater Association (NOWRA). The seminar is approved for continuing education credit in most states, including Maine.

Evaluators

This seminar is evaluated by the Maine Department of Health and Human Services and the Wisconsin Onsite Water Treater Association (NOWRA) Board of Directors and is currently the chair of the NOWRA State Affiliates Committee.

Faculty

Russell G. Martin, PE, F.NSP Owner of Public Health Solutions, PLLC in Brunswick, Maine

Mr. Martin is a graduate of the University of Maine and is a licensed professional engineer and licensed site evaluator in the state of Maine. He has more than 43 years of experience relative to subsurface wastewater treatment and disposal between private and public sector service, and he was formerly the director of the Subsurface Wastewater Program for the Division of Environmental Health at the Maine Department of Health and Human Services. He is currently the owner of Public Health Solutions, PLLC, providing both training and design services relative to onsite wastewater disposal. Mr. Martin is active in several professional organizations, including the Maine Society of Professional Engineers, the Maine Association of Site Evaluators, and the Massachusetts Association of Onsite Wastewater Professionals, a state affiliate of the National Onsite Wastewater Recycling Association. He recently concluded a three-year term on the National Onsite Wastewater Recycling Association (NOWRA) Board of Directors and is currently the chair of the NOWRA State Affiliates Committee.