

Agenda

Presented by Tom Fritts

Introduction to Onsite Wastewater

- Basics of wastewater
- The value of treating onsite

Soil & Site Evaluation

- Understanding soils
- Landscape positions
- Water movement in soils
- Becoming familiar with soil profiles and soil loading rates

Septic Tanks

- Function of septic tanks
- Materials used
- Operations and maintenance
- Issues that compromise tanks

Aerobic Treatment Units (ATU)

- Reviewing different types and sizing of ATUs
- Things that can affect the function of ATUs

Wastewater Drip Irrigation

- Understanding how drip irrigation works
- In depth review of sizing and designing a wastewater drip irrigation system

Choosing the Correct Systems to Fit the Site

- Choices of system types in today's onsite wastewater industry
- Matching the correct system with the site

Can't Attend? Order the CD/Manual Package:

An audio recording of this seminar is available for \$289 (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.

**Septic System Design,
Construction and Maintenance**
St. Louis, MO - Friday, September 14, 2018



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

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Learning Objectives

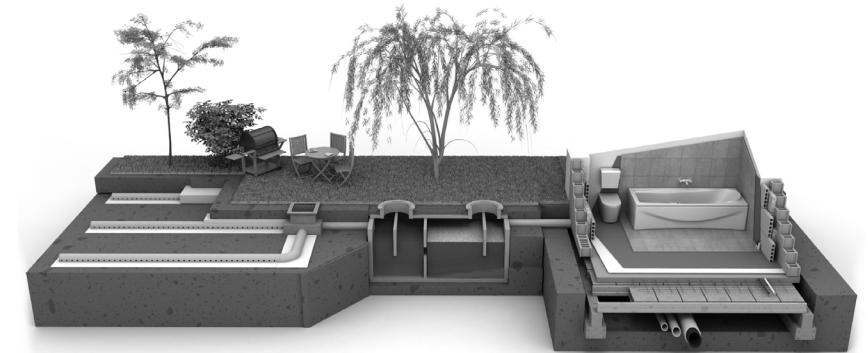
You'll be able to:

- Understand** the science and operation of onsite wastewater treatment systems.
- Evaluate** the impact of landscape and soils.
- Get** tips on designing, sizing and constructing conventional septic systems.
- Learn** how aerobic treatment and subsurface drip irrigation systems work.
- Choose** the right systems for the site you're working on.



Septic System Design, Construction and Maintenance

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Assess soils and sites for onsite wastewater treatment systems

Learn about septic system tank design and construction

Examine key issues in septic tank operation and maintenance

Explore alternative treatment technologies including aerobic treatment units

Select the proper system to fit your site

Continuing Education Credits

Professional Engineers

6.5 PDHs

Architects

6.5 HSW CEUs/CE Hours

6.5 AIA HSW Learning Units

Contractors

Non-Credit Continuing Ed.



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Faculty

Tom Fritts *Vice President Residential Sewage Treatment Company (RSTC)*
Mr. Fritts is vice-president of Residential Sewage Treatment Company, Inc., in Grandview, Missouri where they design, sell and service alternative onsite wastewater systems. He is past president of the Missouri Smallflows Organization (MSO), the Kansas Small Flows Association (KSFA) and the National Onsite Wastewater Recycling Association (NOWRA). He is an approved instructor for NOWRA, the Consortium of Institutes for Decentralized Wastewater Treatment, and for several states across the country. Mr. Fritts is the 2016 recipient of the NOWRA “Dick Otis Industry Achievement Award” and the 2015 Kansas Small Flows Association “Raymond Peat Industry Achievement Award.”

Seminar Information

Sheraton Clayton Plaza
7730 Bonhomme Avenue
St. Louis, MO 63105
(314) 863-0400

Registration	Lunch (On your own)
8:00 - 8:30 am	12:00 - 1:00 pm
Morning Session	Afternoon Session
8:30 am - 12:00 pm	1:00 - 4:30 pm

Tuition
\$279 for individual registration
\$259 for three or more simultaneous registrations.

Each registration includes a complementary continental breakfast and printed seminar manual.
Receive a reduced tuition rate of \$101 by registering to be our on-site coordinator for the day. For availability and job description, please visit www.halfmoonseminars.org.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

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.

Additional Learning

Webinar Series
Handling Ethical Issues in Professional Engineering Practice
Fri., Aug. 3, 2018, 11:00 AM - 12:00 PM CDT

Technical Writing

- **Technical Writing Basics**
Thurs., Aug. 9, 2018, 12:00 PM - 2:00 PM CDT
- **Planning Documents**
Thurs., Aug. 9, 2018, 2:30 - 4:30 PM CDT
- **Writing Documents**
Fri., Aug. 10, 2018, 12:00 PM - 2:00 PM CDT
- **Revising and Editing Documents**
Fri., Aug. 10, 2018, 2:30 - 4:30 PM CDT

Foundation Damage and Repair

- **Structure Loads, Soil Mechanics, Bearing Capacity and Geo-Environmental Hazards**
Wed., Aug. 15, 2018, 11:00 AM - 12:30 PM CDT
- **Foundation-Wall Design and Construction**
Wed., Aug. 15, 2018, 1:00 - 2:30 PM CDT
- **Assessment of Foundation-Slab Damage & Repair Alternatives**
Thurs., Aug. 16, 2018, 11:00 AM - 12:30 PM CDT
- **Assessment of Foundation-Retaining Wall Damage & Repair Alternatives**
Thurs., Aug. 16, 2018, 1:00 - 2:30 PM CDT

Retaining Structures

- **Earth Pressures and Surcharges**
Thurs., Aug. 23, 2018, 11:00 AM - 12:30 PM CDT
- **Cantilever & Apparent Earth Pressures**
Thurs., Aug. 23, 2018, 1:00 - 2:30 PM CDT
- **Apparent Earth Pressures**
Fri., Aug. 24, 2018, 11:00 AM - 12:30 PM CDT

For more information and other online learning opportunities visit:
www.halfmoonseminars.org/webinars/

Continuing Education Credit Information

This seminar is open to the public and offers 6.5 PDHs to engineers in all states and 6.5 HSW CEUs/continuing education hours to architects in all states, except Florida architects. Educators and courses are not subject to preapproval in Missouri.

This seminar is approved by the American Institute of Architects for 6.5 HSW Learning Units (Provider No. J885). Only full attendance can be reported to the AIA/CES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York architects.

This course offers a non-credit continuing education opportunity to construction contractors. It has not been approved by any state contractor licensing entity for mandatory continuing education credit.

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.

Can’t Attend? Order the CD/Manual Package:
An audio recording of this seminar is available for \$289 (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.

Registration

Septic System Design, Construction and Maintenance

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How to Register	Registrant Information
Online: www.halfmoonseminars.org	Name: _____
	Company/Firm: _____
	Address: _____
	City: _____ State: _____ Zip _____
Phone: 715-835-5900	Occupation: _____
	Email: _____
	Phone: _____
Fax: 715-835-6066	Additional Registrants:
	Name: _____
	Occupation: _____
	Email: _____
	Phone: _____
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	Name: _____
	Occupation: _____
	Email: _____
	Phone: _____
Complete the entire form. Attach duplicates if necessary.	Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred.
	() I need special accommodations. Please contact me.

Tuition

() **I will be attending the live seminar.** Single Registrant - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.

() **I am not attending.** Please send me the CD manual package for **\$289.00**. (S&H included. Please allow five weeks from seminar date for delivery)

Checks: Make payable to HalfMoon Education Inc.

Credit Card: *Mastercard, Visa, American Express, or Discover*

Credit Card Number: _____

Expiration Date: _____ CVV2 Code: _____

Cardholder Name: _____

Billing Address: _____

City: _____ State: _____ Zip: _____

Signature: _____

Email: _____