

Agenda

Indiana: On-site Sewage Systems Scope of Use

Denise H. Wright

- A historical review
- Conventional on-site systems basics
- The “why” and “how” of pumps in OSS design
- Recent improvements to Indiana’s OSS regulatory method

Evaluating Sites and Setting Treatment Goals and Conventional System Design Considerations

Sara Heger

- Factors for selecting and sizing systems
- Site and soil evaluation
- System boundaries and loadings
- Basic system design for conventional systems

Alternative and Sustainable Treatment Technologies

Denise H. Wright

- Aerobic treatment units
- Media filters
- Constructed wetlands
- Drip dispersal

Management Programs and Troubleshooting Onsite Wastewater Treatment Systems

Sara Heger

- Monitoring of systems
- Developing maintenance plans
- Inspection and troubleshooting procedures

Can’t Attend? Order the Manual and the Audio from the Live Seminar as a Self-Study Package!

An audio recording of this seminar is available for \$289. Allow four 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 Overview – Applications, Design, and Maintenance
Indianapolis, IN- Friday, February 22, 2019



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

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Learning Objectives

You’ll be able to:

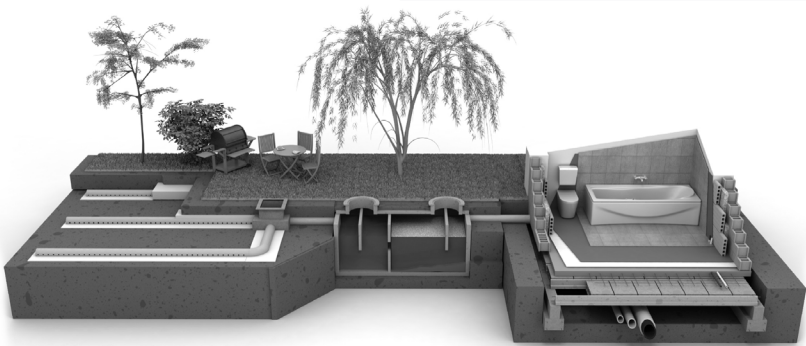
- Review** the basics of conventional on-site sewage systems (OSS) and discuss recent Indiana regulatory improvements.
- Evaluate** sites and soils.
- Review** basic conventional OSS system design.
- Discuss** alternative and sustainable technologies, including aerobic treatment units, media filters and constructed wetlands.
- Develop** maintenance plans.



Septic System Overview

Applications, Design, and Maintenance

Indianapolis, IN- Friday, February 22, 2019



Examine the basics of conventional on-site sewage systems

Evaluate sites and soils
Explore factors for selecting and sizing systems

Understand alternate and sustainable treatment technologies
Explore management programs and troubleshooting problems

Continuing Education Credits

Professional Engineers
6.0 Continuing Ed. Hours

Architects
6.0 HSW Contact Hours
6.0 AIA HSW Learning Units



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Faculty

Sara Heger *University of Minnesota*

Dr. Heger is an engineer, researcher and instructor at the University of Minnesota in the Onsite Sewage Treatment Program in the Water Resources Center and is an adjunct assistant professor in the Bioproducts and Biosystems Engineering Department. For over 20 years, she has been conducting research and providing education and technical assistance to homeowners, small communities, onsite professionals and local units of government regarding onsite wastewater treatment. She has presented in over 30 different states and provenances in North America regarding the science of wastewater treatment including design, installation and management. Dr. Heger is the president elect of the National Onsite Wastewater Recycling Association and the education chair of the Minnesota Onsite Wastewater Association. She serves on the NSF International Committee on Wastewater Treatment Systems. Dr. Heger is also the chair of the Minnesota State Advisory Committee on Decentralized Systems. She has a BS degree in Biosystems & Agricultural Engineering and MS and PhD degrees in Water Resource Science.

Denise H. Wright *Indiana State Department of Health*

Ms. Wright currently serves as the training officer for the Indiana State Department of Health-Environmental Public Health Division out of the Indianapolis office. She has focused her career in the on-site sewage system industry providing training and technical assistance to local health department staff, and conducting the review of technologies new to Indiana for on-site components requesting approval for use in Indiana. Ms. Wright has over 25 years of field experience to assist her in troubleshooting onsite system malfunctions and providing assistance to citizens and installers. She is an active participant within the onsite industry. Ms. Wright served the National Onsite Wastewater Recycling Association as a board member (2014-2017) and as a member of their Online Learning Academy committee. She also served the National Sanitation Foundation as a voting member of the Joint Committee on Wastewater Technology (active member) and the Indiana Onsite Wastewater Professionals Association where she works with others to develop and conduct the certified installer and inspector training sessions/exams. Ms. Wright has assisted the Indiana Environmental Health Association-Wastewater Management Committee with annual education conference preparation.

Seminar Information

Hilton Garden Inn Indianapolis Northwest
6930 Intech Blvd.
Indianapolis, IN 46278
(317) 288-6060

Tuition
Registration
8:00 - 8:30 am
Morning Session
8:30 - 11:45 am
Lunch (On your own)
11:45 am - 12:45 pm
Afternoon Session
12:45 - 4:00 pm

\$279 for individual registration
\$259 for Three or more registrants from the same company at the same time.
Included with your registration: Complimentary 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, 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 self-study package. You may also send another person to take your place.

Continuing Education Credit Information

This seminar is open to the public and offers 6.0 continuing education hours/PDHs to professional engineers and 6.0 HSW contact hours to architects in all states. HalfMoon Education is an approved continuing education provider for Indiana engineers. Architect continuing education providers and courses are not subject to preapproval in Indiana.

The American Institute of Architects has approved this course for 6.0 HSW Learning Units (Sponsor No. J885). Only full attendance can be reported to the AIA.

HalfMoon Education is an approved engineer continuing education provider in Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is deemed an approved architect continuing education sponsor in New York.

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.

Additional Learning

Webinar Series

- Commercial Solar Peaker Batteries**
- **Commercial Solar Peaker Batteries, Part I**
Wed., Jan. 9, 2019, 11:00 AM - 3:15 PM CST
 - **Commercial Solar Peaker Batteries, Part II**
Thurs., Jan. 10, 2019, 11:00 AM - 2:15 PM CST

Proposal Writing

Fri., Jan. 11, 2019, 11:00 AM - 3:30 PM CDT

Technical Writing

- **Technical Writing Basics**
Mon., Jan. 14, 2019, 11:00 AM - 1:00 PM CST
- **Planning Documents**
Mon., Jan. 14, 2019, 1:30 - 3:30 PM CST
- **Writing Documents**
Tues., Jan. 15, 2019, 11:00 AM - 1:00 PM CST
- **Revising and Editing Documents**
Tues., Jan. 15, 2019, 1:30 - 3:30 PM CST

For more information visit:
www.halfmoonseminars.org/webinars/

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Registration

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How to Register	Registrant Information
Online: www.halfmoonseminars.org	Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip: _____ Occupation: _____ Email: _____ Phone: _____
Phone: 715-835-5900	Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____
Fax: 715-835-6066	
Code:	
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278	
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 self-study package for **\$289.00**.

- ☐ Downloadable MP3 Audio/PDF Manual
 - ☐ CD/Manual Package
- (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: _____

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City: _____ State: _____ Zip: _____

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Email: _____