You'll be able to:

**Define** what a basic septic system is and understand how it works.

**Examine** the regulatory roles of the U.S. and Ohio Environmental Protection Agencies and local governments.

**Discuss** design, siting and construction considerations related to onsite wastewater treatment systems.

**Identify** alternative treatment technologies such as mound systems and media filters.

**Understand** requirements for inspections and maintenance, and troubleshoot septic system problems.
Faculty

Dr. Karen Mancl
Professor of Food, Agricultural and Biological Engineering and Water Quality Specialist at The Ohio State University

Dr. Mancl has published 50 journal articles and about 80 Extension publications on rural infrastructure and outreach initiatives. She is a nationally-known expert in onsite wastewater treatment, having conducted research, written and taught the subject over 30 years.

Dr. Mancl is the past-president and now vice-president of the Ohio Onsite Wastewater Association. In 2013, Dr. Mancl constructed a teaching facility at a slaughterhouse in southwestern Ohio to teach low-cost, low-energy treatment of food processing wastewater. At this outdoor teaching and research facility, Dr. Mancl teaches designers, installers and regulators the science and technology of sand bioreactor wastewater treatment systems.

She is originally from Wisconsin where she received her Bachelor's degree in Environmental Science from the University of Wisconsin. Dr. Mancl has a master's degree in Environmental Science from the University of Texas, and received her PhD degree in Water Resources from Iowa State University. In 2010 she received a second master's degree in East Asian Studies, and she conducts research and teaches wastewater treatment in rural China. She was an assistant professor and water specialist at The Pennsylvania State University for four years before joining the Ohio State faculty in 1986.

Here’s what past attendees had to say about the program and presenter Karen Mancl:

“Very informative overview of on-site wastewater treatment options in the state of Ohio.” — Civil engineer

“A great presentation—clear, well organized.” — Architect

“High-energy, passionate about subject.” — Mechanical engineer

“One of the best I have attended.” — Civil engineer

Seminar Information

Holiday Inn Eastgate (E-275E)
4501 Eastgate Blvd.
Cincinnati, OH 45245
(513) 752-4400

Registration:
8:00 - 8:30 am
Morning Session
8:30 - 11:45 am
Lunch (on your own) 11:45 am - 1:00 pm
Afternoon Session
1:00 - 4:15 pm

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International Residential Code
Development and Enforcement of International Residential Code
Thurs., March 12, 2020, 11:00 AM - 12:00 PM CDT
IRC Building Planning and Shell Construction, Part I
Thurs., March 12, 2020, 1:00 - 2:30 PM CDT
IRC Building Planning and Shell Construction, Part II
Fri., March 13, 2020, 11:00 AM - 12:30 PM CDT
IRC Energy Efficiency and Building Systems
Fri., March 13, 2020, 1:00 - 3:00 PM CDT

Erosion and Sediment Control
Erosion and Sediment Control Requirements and Practices
Thurs., March 12, 2020, 12:30 - 2:00 PM CDT
Selection of Erosion Control Practices and Best Practices
Thurs., March 19, 2020, 12:30 - 2:00 PM CDT
Small Channels, Control Measure Estimating and Pollution Prevention Plans
Thurs., March 26, 2020, 12:30 - 2:00 PM CDT
Stormwater Management Inspection, Maintenance and Case Studies
Thurs., April 2, 2020, 12:30 - 2:00 PM CDT

Construction Cost Estimating
Introduction to Cost Estimating
Thurs., March 19, 2020, 11:00 AM - 12:30 PM CDT
Assessing the Impact of Sea Level Rise, Changing Temperature and Changing Weather Patterns
Thurs., March 19, 2020, 1:00 - 3:00 PM CDT
Cost Estimate Organization and Examples
Fri., March 20, 2020, 11:00 AM - 1:00 PM CDT
Adapting Sites, Outdoor Spaces, New Construction and Existing Buildings to Withstand Extreme Weather Events
Fri., March 20, 2020, 1:30 - 3:00 PM CDT

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