

ONSITE WASTEWATER SYSTEMS 101

Michigan Onsite Wastewater Training and Education Center
12 Mile Road. at Meadowbrook in Novi

April 22 & 23, 2009 or November 4 & 5, 2009

This two day program is designed for professionals working in the field of onsite wastewater treatment and dispersal. The program is designed to meet the needs of installation contractors, sanitarians, system designers, and others who work in this field. It will improve the skills needed in your job. The course provides a basic understanding of the functional characteristics of conventional septic systems and alternatives that are commonly used in Michigan. Fully one third of the class is conducted in a field laboratory setting where participants will see and have hands-on experience with hydraulically functional actual size system components. Dress appropriately for the anticipated weather conditions so that you will be comfortable being outside for an hour or more at a time. After taking the class, you will have increased understanding of how onsite systems function.

Course instructors are **Ted Loudon**, P.E., Professor and Extension Agricultural Engineer at MSU, **Ron Lindsay**, Onsite System Consultant and Maintenance Specialist with Milan Engineered Systems, and **Del Mokma**, Professor and Extension Specialist in Soil Science at MSU. Others may take part, depending on availability. Ted Loudon has over 20 years practical experience in education and applied research related to onsite and decentralized wastewater treatment systems. He is recognized for his research work related to cold climate performance of sand filters and shallow soil absorption systems and is involved in both state and national efforts to further improve practice in onsite wastewater treatment. Ron Lindsay is recognized as the most knowledgeable person in Michigan in alternative onsite system trouble shooting and maintenance. Del Mokma teaches academic courses in soil classification and has extensive research based experience in soil and site evaluation for onsite wastewater treatment systems.

First Day - April 22 (9:00 a.m. - 5:00 p.m.) Continental Breakfast & Lunch Included

- Septic tanks and effluent filters (with field illustrations)
- Gravity and Pressure distribution systems (with field illustrations)
- Wastewater characteristics and strength
- Soils and site evaluation refresher
- Water movement and wastewater treatment in soils

Second Day - April 23 (9:00 a.m. - 3:30 p.m.) Continental Breakfast & Lunch Included

- Previous day review and discussion
- Soil absorption system options and selection criteria
- Pump selection and pump chambers (hands on field illustrations)
- Mounds and sand filters (with field illustrations)
- Aerobic treatment units (with field illustrations)

**The University is committed to providing equal opportunity for participation in all programs, services, and activities. Individuals with disabilities requiring accommodation should register with MSU Resource Center for Persons with Disabilities well in advance of the seminar dates to ensure sufficient time for registration and arrangement of needed accommodations. Late requests received will be met when possible. MSU is an affirmative action/equal opportunity employer*

REGISTRATION

Onsite Wastewater Systems Workshop 101

***April 22 & 23, 2009 or
November 4 & 5, 2009***

Make check payable to **Michigan State University** at **\$175 per person. \$150 for members of MOWRA, MEHA or MSTA, just send us a copy of your 2005 membership card or receipt.** Fee includes technical materials and lunch for two days. Payment must be included with registration form. No invoicing. **Registration & fee due one (1) week prior to workshop.** **Cancellation Policy:** Up to 3 days prior to workshop - full refund less a \$25 administrative fee. No refunds after this time.

Name _____

Workshop Date _____

Name _____

Workshop Date _____

Company _____

Address _____

City/Zip _____

Phone () _____

Fax () _____

Email _____

**Please return registration form and check to:
Michigan State University
Attn: Barb DeLong
216 Farrall Hall
East Lansing, MI 48824-1323
Phone: (517) 355-4720
Fax: (517) 432-2892**

Do not delay. Limited enrollment. Confirmation and map sent upon receipt of registration.

HOTELS CLOSE TO TOLLGATE

The Hotel Baronette

27790 Novi Rd.
Novi (adjacent to the Twelve Oaks Mall)
(248) 349-7800

Doubletree Hotel

27000 Sheraton Dr.
Novi (NW corner of Novi Rd. & I-96
(across from the Twelve Oaks Mall)
(248) 348-5000

Wyndham Garden Hotel

42100 Crescent Blvd.
Novi (located in the Novi Towne Center
SE corner of I-96 & Novi Rd.)
(248) 344-8800

Hampton Inn

20600 Haggerty Rd.
Northville (8 Mile & Haggerty)
(734) 462-1119

Knights Inn

37527 Grand River
Farmington Hills (10 Mile & Grand River)
(248) 477-3200

Red Roof Inn

24300 Sinacola Ct.
Farmington Hills (10 Mile & Grand River)
(248) 478-8640

Travelodge

21100 Haggerty Rd.
Northville (8 Mile & Haggerty)
(248) 349-7400

Holiday Inn

38123 Ten Mile
Farmington Hills (10 Mile & Grand River)
(248) 477-4000

Novi Hilton

21111 Haggerty Road
Novi (8 Mile Road at I-275)
(810) 349-4000

Extended Stay America

21555 Haggerty Road
Novi
(248) 305-9955

Onsite Wastewater Systems 101
216 Farrall Hall
Michigan State University
East Lansing, MI 48824-1323



MSU-Tollgate Education Center

ONSITE WASTEWATER SYSTEMS 101

*(A Basic Course in Onsite
Wastewater Treatment)*

This course is specifically designed for those who need basic training in modern onsite wastewater treatment concepts. It will be beneficial to regulators, contractors & designers alike.

***April 22 & 23, 2009 or
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at

**Michigan Onsite Wastewater
Training and Education Center
MSU-Tollgate Education Center
12 Mile Rd. at Meadowbrook
Novi, Michigan**

Developed by the Michigan Technical Advisory
Council for Onsite Wastewater Treatment



In Cooperation with

**MICHIGAN STATE
UNIVERSITY**

*Departments of Biosystems and Agricultural
Engineering and Crop and Soil Sciences
and MSU Extension*