

ONSITE WASTEWATER SYSTEM MAINTENANCE

Michigan Onsite Wastewater Training and Education Center
MSU-Tollgate Education Center

September 24 & 25, 2009

This maintenance workshop is designed to prepare wastewater professionals to provide the necessary maintenance services on conventional and alternative systems. Any system having a pump or other mechanical device should have at least annual visits by a trained professional. Put yourself in a leadership position by attending this workshop taught by instructors who are actively involved in system maintenance.

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 **Bill Gregory**, owner of WG Sales in Howell. Others may take part, depending on availability. Ted Loudon has over 20 years practical experience onsite systems. He has been responsible for maintenance of numerous experimental systems including large and individual home sand filters, various innovative biofilters and conventional systems. Ron Lindsay is recognized as the most knowledgeable person in Michigan in alternative onsite system trouble shooting and maintenance. Bill Gregory has provided pump service and trouble shooting services for various onsite applications for over 20 years. He is the one called when no one else can find the problem.

First Day - September 24 (9 a.m. to 5 p.m.) Continental Breakfast & Lunch Included

Use of an Owner Questionnaire
Conventional soil absorption --septic tank maintenance issues (field illustrations)
Wastewater samples--when, how, and what they will tell you
Pumps and pumping chambers (field trouble shooting)
Pump controls, floats, timers (field trouble shooting)
Pressure distribution pipe networks (field maintenance illustrations)

Second Day - September 25 (9:00 a.m. to 4:30 p.m.) Continental Breakfast & Lunch Included

Review and discussion of the first day
Mounds (Maintenance procedure and check list, Setting up a mound for maintenance, Trouble shooting a "challenged" mound, Flow measurement and dose volumes)
Sand filters (Principles of operation--biological and physical; Proper designs, special needs of single pass and recirculating types; Setting up a sand filter for maintenance; Use of a maintenance check list)
Other packed bed filters (e.g., AdvanTex™, Waterloo Biofilter, Aerocell, Scat)
Aerobic treatment units (Clearstream, FAST, MicroFAST, NORWECO)
Trouble shooting failed or failing systems--case examples

**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 Maintenance

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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 Maintenance
216 Farrall Hall
Michigan State University
East Lansing, MI 48824-1323**



ONSITE WASTEWATER SYSTEMS MAINTENANCE

Training for routine maintenance of conventional and alternative onsite systems including mounds, sand filters, packed bed filters, aerobic treatment units, and all pump systems

September 24 & 25, 2009

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*