

## Continuing Education Workshop

Seven Professional Development Hours  
For Engineers and other Wastewater Professionals

### What to Do When a Basic Septic System Will Not Work at a Difficult Site

March 23, 2009

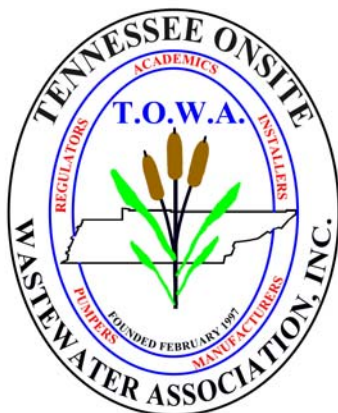
Embassy Suites & Conference Center  
Murfreesboro, Tennessee

Tennessee Onsite Wastewater Association  
Pre-Conference Workshop

#### Overview:

Tennessee has many small communities without sewer systems. Typically located at old crossroads, these small communities may not have many structures, but number of structures per square mile is fairly high. The homes and businesses (built before the 1970's) have individual septic systems that are problems waiting to happen. Before the 1970's, regulations were not in place to ensure that these systems were sized appropriately for the flow and for the soil. Additionally, it is very likely that the actual wastewater flow has increase as compared to thirty years ago. If a large percentage of septic systems have failed within a small community, this becomes a community problem rather than an individual owner's problem. An engineered solution is needed.

This workshop has assembled a group of presenters that will address the challenges of placing a domestic onsite wastewater renovation system at locations that demand alternative approaches. The discussion will range from alternative repairs for individual systems, to developing a community system using effluent sewers.



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Center for Decentralized  
Wastewater Management



**Schedule:**

8:30 – 9:00 AM	Registration, Embassy Suites & Conference Center
9:00 – 9:15 AM	Welcome and Opening Remarks Mr. Theo Terry, TOWA President Elect Dr. John Buchanan
9:15 – 10: 30	Dr. David Lindbo, Associate Professor, Soil Science Department, NCSU Recognizing and Working with Difficult Soils
10:30 – 11:00 AM	Break in Exhibit Hall
11:00 – 12:00 AM	Mr. Brad Harris, P.E. and Mr. Britton Dotson, P.G., TDEC-Ground Water Protection Trials and Tribulations of Difficult Sites
12:00 – 12:45 PM	Lunch (Provided)
12:45 – 2:00 PM	Dr. Kevin Sherman, P.E., Director of Engineering, Quanics, Inc. Engineering Solutions to Difficult Sites
2:15 – 2:30 PM	Break in Exhibit Hall
2:30 – 3:30 PM	Mr. Scotty Sorrells, P.G., TDEC-Division of Water Supply, Underground Injection Program
3:30 – 4:30 PM	Dr. John Buchanan, P.E., Associate Professor, University of Tennessee Community Solutions – Effluent Sewers, Treatment, and Dispersal

**Location:**

Embassy Suites & Conference Center  
1200 Conference Center Boulevard  
Murfreesboro, TN 37129  
(615) 890-4464

**Registration:**

Fees for the workshop are \$150.00. This includes admission to TOWA conference (March 24), lunch on both days, and the TOWA annual dues.

**Registration Procedure:**

Pre-registration is strongly encouraged – we need to know how much food to order. Please fill out the attached form and return it to John Buchanan. Contact information is on the form.

## For More Information:

Contact John Buchanan at [jbuchan7@utk.edu](mailto:jbuchan7@utk.edu) or at (865) 974-7266. Please visit our website at <http://onsite.tennessee.edu>

## Registration Form:

Name:

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Company or Employer:

Title:

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Mailing Address:

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City, State, Zip

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Phone Number:

email address:

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Any Dietary Restrictions?

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You can pay at the door, but we would like for you to pre-register

Please return the registration form to:

John Buchanan

Center for Decentralized Wastewater Management

2506 E. J. Chapman Drive

Knoxville, TN 37996-4531

Registrations can be Faxed to: (865) 974-4514

Or emailed to [jbuchan7@utk.edu](mailto:jbuchan7@utk.edu)



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