

# 60th MICHIGAN ONSITE WASTEWATER CONFERENCE & EXHIBITS PRESENTS

*“SUSTAINABLE WASTEWATER MANAGEMENT  
- 60 YEARS & COUNTING”*

JANUARY 11 - 13, 2011

KELLOGG HOTEL & CONFERENCE CENTER  
MICHIGAN STATE UNIVERSITY  
EAST LANSING, MICHIGAN



NOTE: AT THE END OF THE CONFERENCE THERE WILL BE A DRAWING IN THE AUDITORIUM FOR SEVERAL PRIZES

*Up to 16-CSE (Continuing Septage Education) Credit Hours are offered at the conference through MSTA. Enrollment is required. Please contact Lori Mattingly at the registration desk with questions.*

*\* Note there will be an additional fee for non-MSTA members wishing a certificate of attendance and tracking by MSTA.*

**CONFERENCE SPONSORS: MEHA, MOWRA, MSTA, MSU, MDNRE, MWEA**



## ONSITE WASTEWATER CONFERENCE INFORMATION – PLEASE READ!

### *Registration Required For Attendance*

**ABOUT THE CONFERENCE** – A three-day, educational conference for the onsite wastewater industry including local public health, engineers, consultants, installation contractors, septic tank pumpers, and others interested in onsite wastewater management. You will learn about the latest in onsite wastewater industry trends and approaches to onsite wastewater management.

**LOCATION** – The Conference will be held at the Kellogg Center, corner of Michigan Avenue and Harrison Road, East Lansing, Michigan. The conference site features spacious meeting facilities and excellent overnight accommodations. Parking in the ramp south of the center is included in the registration.

**EXHIBITS** – With over 30 exhibitors in the hall, this will be an ideal place to exchange ideas and discuss new products and/or services. Representatives from all major suppliers will be present.

**REGISTRATION** – The full conference (2-day) registration fee is \$80.00 per person. A one-day fee is \$55.00 per person for either January 12th or 13th. The January 11th pre-conference education day is as follows:

- Track I program “Excavations: The Grave Danger” (Lincoln room) is being presented by the Michigan Occupational Safety & Health Administration and has an additional discounted cost of \$50 per person.
- Track I program “Be prepared for a MIOSHA Inspection” & “Reasonable Suspicion (Supervisors Training) for Drug & Alcohol Testing” (Lincoln room) is supported by the conference exhibitors and has no fee.
- Track II program (Auditorium) is supported by the conference exhibitors and has no fee.

Registration includes lunch and break snacks. REGISTRATION for the conference is REQUIRED! Please utilize the Registration form and return it by the deadline, December 28, 2010. After this date, all fees will be \$10.00 more - even for Tuesday, January 11! **ATTENTION MICHIGAN SEPTAGE HAULERS** Conference Fee reimbursement is available for most Licensed Septage Haulers through the Michigan Department of Natural Resources and Environment “Continuing Septage Education Reimbursement Request” (EQP5918). More information is available on the web at: <http://www.michigan.gov/deqseptage>

**LODGING** – Arrangements for a special conference room rate of \$78.00 for a single or double, plus taxes, have been made with the Kellogg Center. Lodging reservations must be received by December 18, 2010 to assure a room. Call (800) 875-5090 to reserve your room. After that time rooms will be on a space available basis. Kellogg Center has great amenities including the excellent State Room restaurant and the Spartan Pub.

**MSTA BANQUET** – The Annual Michigan Septic Tank Association Banquet will be held on the evening of January 12th. Each current MSTA member is entitled to two (2) discounted (\$5) banquet tickets. Everyone is invited; additional banquet tickets are \$30.00 and can be purchased with Registration. NOTE: MSTA members must reserve their discounted banquet tickets on the Registration form. (For information on current MSTA membership call Lori Mattingly, MSTA Executive Officer at 989-275-4947 or email [lorimatt@charter.net](mailto:lorimatt@charter.net)). **If you requested discounted banquet tickets and are unable to attend the banquet, please notify staff at MEHA [517-485-0660] to cancel. This will allow for an accurate meal count and save your association money.**



PRE-CONFERENCE "Education Day"				
CSE Hours	TUESDAY 11-Jan Start Time	Track 1 LINCOLN ROOM <i>* Additional Registration Fee</i>	Track 2 AUDITORIUM <i>No Fee</i>	
	7:45 AM	REGISTRATION		
	8:30 AM	<b>Introduction</b> Moderator, Mark Scott (MSTA)	<b>Introduction</b> Moderator, Dana Debruyn (MEHA)	
1.00	8:35 AM	* Excavations: The Grave Danger (Additional \$50 Registration Fee) Jim Getting, Ph.D., CHST (Construction Safety Consultant) Michigan Occupational Safety & Health Administration	<b>Grease and the Effects to Onsite Systems</b> Theo B. Terry, III, R.S. Bear Onsite, LLC	
1.00	9:30AM		<b>Metal Mobilization Due to Excessive Land Application of Carbon</b> Dr. Steve Safferman (Associate Professor) Michigan State University	
1.00	10:30AM		<b>The Evolution of Effluent Filters</b> Theo B. Terry, III, R.S. Bear Onsite, LLC	
	11:30 AM	LUNCH (Provided)		
		Moderator, Dan Sandahl (MDNRE)	Moderator, Carolyn Hobbs-Kreiger (MEHA)	
1.00	12:30PM	<b>Be prepared for a MIOSHA Inspection</b> (No fee) Jim Getting, Ph.D., CHST (Construction Safety Consultant) Michigan Occupational Safety & Health Administration	<b>Advantages of Using Waterless Urinals</b> Brian Martin (Building Trades Supervisor) Michigan Department of Transportation  Ted Loudon (Professor Emeritus) Michigan State University	
1.00	1:30PM	<b>Reasonable Suspicion (Supervisors Training) for Drug &amp; Alcohol Testing</b> (No Fee)  Lori S. Barresi (President) ASAP Drug Screens	<b>Use of Aerated Storage Ponds Following Packed-Bed Filters for Improved Performance and Lower Costs</b>  Larry Stephens (President) Stephens Consulting Services, PC	
1.00	2:30PM		<b>Troubleshooting Wastewater Treatment Systems</b>  Mark Gross (Training Manager) Orenco Systems, Inc.	
	3:30PM	<b>EXHIBIT HALL OPENS (Vendor CASH Give-Aways throughout the evening)</b> Moderator, Dan Milan (MOWRA)		
	7:00PM	<b>EXHIBIT HALL CLOSSES</b>		

*Michigan Occupational Safety and Health Administration (MIOSHA)*

**"Excavations: The Grave Danger"**

This program is for owners and/or employees who wish to learn more on safety at the job site. This training program provides information relevant to the Michigan Energy, Labor & Economic (DeLEG) Licensed Excavators (Residential Builders and/or Maintenance & Alteration Contractors) who are required to complete continuing education (Builders Continuing Competency) hours to renew their license. The program would also be beneficial to Michigan Department of Natural Resources (MDNRE) licensed Septage Haulers for Continuing Septage Education (CSE) hours. This course is ideal for people new to the business and a good refresher for experienced operators. The course fee (\$50 – reimbursable for most Michigan licensed septage haulers) includes residential builders pre-licensure (post-licensure) accreditation for 3-hours continuing competency and septage haulers accreditation for 3-hours continuing septage education (two for one for those dual licensed).  
Cost \$50\*

\* REIMBURSABLE FOR MOST LICENSED SEPTAGE HAULERS

*Michigan Occupational Safety and Health Administration (MIOSHA)*

**"Be Prepared for a MIOSHA Inspection"**

This training program is for owners and/or employees who wish to learn more on being prepared for a MIOSHA Enforcement visit at their business, or job site. There is no cost for this program which has been accredited by MDNRE for 1-hour continuing septage education.

*Department of Transportation (DOT)*

**"Reasonable Suspicion (Supervisors Training) for Drug & Alcohol Testing"**

This training program is for owners and/or driver supervisors who wish to learn more about reasonable suspicion for drug and alcohol training. The two-hour program fulfills the requirement by the Department of Transportation (Federal Motor Carrier Safety Administration Part 382.603) for Supervisor Training for businesses' operating trucks over 26,000-pounds gross vehicle weight as part of their mandated drug & alcohol program requirement. A certificate will be awarded to each participant who completes this training. There is no cost for this program which has been accredited by MDNRE for 2-hours continuing septage education (another two for one opportunity).

<b>MAIN CONFERENCE</b> <b>"SUSTAINABLE WASTEWATER MANAGEMENT - 60 YEARS &amp; COUNTING"</b>				
<b>CSE Hours</b>	<b>WEDNESDAY</b>	<b>BIG TEN ROOM</b>		<b>Exhibit Hall</b>
	<b>12-Jan</b>	<b>Joint Sessions</b>		
	<b>Start Time</b>	<b>REGISTRATION</b>		<b>Exhibits Open</b>
	7:45AM			
	8:30 AM	<b>Welcome</b> Moderator, Dan Milan (MOWRA)		
<b>1.00</b>	8:35 AM	<b>Water Re-Use &amp; Reclamation</b> David Ammerman (Reuse National Practice Leader) AECOM		
<b>1.00</b>	9:30 AM	<b>From Centralized to Decentralized Wastewater Systems</b> Mark Gross (Training Manager) Orengo Systems, Inc.		
	10:30 – 11:00 AM	<b>BREAK IN EXHIBIT HALL</b>		
<b>1.00</b>	11:00 AM	<b>Enbridge Oil Spill</b> Paul Makoski (Environmental Health Manager) Calhoun County Health Department		<b>Exhibits Open</b>
	12:00 PM	<b>LUNCH</b>		
		<b>LINCOLN ROOM</b>	<b>AUDITORIUM</b>	<b>Exhibits Open</b>
		Moderator, Dale Ladouceur (MDNRE)	Moderator, Sean Nalepka (MDNRE)	
<b>1.25</b>	1:00 PM	<b>Pressurized Distribution Pumps and Controls</b> Mark Gross (Training Manager) Orengo Systems, Inc.	<b>DOT Safety Compliance - Hands on Knowledge Training</b>  Skip Ritchey (CEO) Safety Management Systems	
<b>1.25</b>	2:15 PM	<b>Mounds from a Maintenance Provider Perspective</b> Michael Stephens (Owner/Operator) SCS Systems, LLC		
	3:30 PM	MOWRA Association Meeting	MSTA Association Meeting	
	5:30 PM	<b>SOCIAL HOUR IN BIG TEN C</b>		
	6:30 PM	<b>MSTA BANQUET IN BIG TEN A</b> <i>(TICKETS REQUIRED)</i>		

**MAIN CONFERENCE**  
**"SUSTAINABLE WASTEWATER MANAGEMENT - 60 YEARS & COUNTING"**

CSE Hours	THURSDAY 13-Jan Start Time	Track 1	Track 2		
		LINCOLN ROOM	AUDITORIUM	BIG TEN ROOM	
	7:45AM	REGISTRATION			Moderator, Madeline Houdek (MSTA)
2.00	8:15 AM			<b>Round Table Discussions</b> <b>TABLE TOPICS:</b> - Legal Matters (Joe Quandt) - Sales & Service (Bill Gregory/Dan Milan) - Agriculture Compliance Solutions (Dawn Drake) - Portable Restrooms (Graham Edwards) - Controlling your Destiny Through Liquid Waste Processing (Therese Wheaton) - What Septage Haulers can do when finding Failing System (Regina Young) - Pollution Exposures for Septage Haulers? (Mick Natzel) - Hauler Licensing & Requirements (Matt Campbell) - DOT Requirements (Skip Ritchey) - Advantages of a Septage Waste Storage Facility (Tinus Koorn) - Local Health Department Failed System Evaluations and Reporting (Richard A. Falardeau, P.E., Chief) - Portable Restroom Winter Servicing, Recipes and Product Usage (Lindy Boehme)	
	10:15 AM	BREAK			
0.75	10:30 AM			<b>Round Table Discussions</b> <b>(cont.)</b>	
		Moderator, Lynne Madison (MEHA)	Moderator, Ted Loudon (MSU)		
0.75	11:15 AM	<b>Watertight Septic Tanks</b> <b>Why &amp; How</b> Dan Wagner (Co-Owner) Milan Vault, Inc.	<b>Trucking Regulations and The Septage Hauling Industry</b> Ron Edwards, CDS, CDT (Director of Safety) Michigan Center for Truck Safety		
	12:00 PM	LUNCH – BIG TEN ROOM			
		Moderator, Steve Hall (MALEHA)	Moderator, Kim Finkbeiner (MEHA)		
1.00	1:00 PM	<b>"FOG" (Fats, Oils &amp; Greases) Control Program</b> Sandra Diorka (Director of Public Services) Delhi Charter Township	<b>Liquid Waste Processing...Growing your Business in Tough Economic Times</b> Therese Wheaton Crystal Environmental		
1.00	2:00 PM	<b>Online Design Course on Decentralized and Cluster Wastewater Treatment Systems</b> Larry Stephens (President) Stephens Consulting Services, PC	<b>Media ideas for promoting my Sanitation Business &amp; Enhancements to my Sanitation Business</b> Dervin Witmer (Owner) - Dig-It Excavating, Inc. Benjamin Bredeweg (Creative Director/Marketing Strategist) Ralph Bailey (Manager) - American Rentals		
	3:00 PM	Moderator, Dan Milan (MOWRA)			
		PRIZE DRAWING IN AUDITORIUM – MUST BE PRESENT TO WIN			

60th MICHIGAN ONSITE WASTEWATER CONFERENCE SPEAKER/TOPIC INFORMATION

TUESDAY SCHEDULE			
Session Time	Speaker/Contact Info	Speaker Bio	Topic/Synopsis of Presentation
Tuesday 1/11/2011 8:30AM to 11:30AM	Jim Getting, Ph.D., CHST (Construction Safety Consultant) Michigan Occupational Safety & Health Administration 7150 Harris Drive / P.O. Box 30643 Lansing, MI 48909-8143 Phone: 517-322-1809 Fax 517-322-1374 Email: GettingJ@michigan.gov Web: www.michigan.gov/miosha	Jim Getting was appointed to MIOSHA's Consultation Education and Training Division in 2007 and provides service to the South West counties of Michigan for construction safety issues. Jim has over 10 years of experience as a safety professional working in the construction industry. Prior to joining MIOSHA's CET Division, Jim worked as Safety Director for several companies, encountering a multitude of construction safety hazards such as fall protection, scaffolds, confined spaces, hazard communication and respiratory issues among many others. While working as a Safety Director, Jim learned first-hand the challenges of training workers, developing safety plans, inspecting worksites, and developing written programs to ensure worker safety and comply with MIOSHA standards and other regulations.  Jim has a Doctoral Degree in Industrial and Organizational Psychology from Auburn University. His primary specialty is the managing of safety and motivating of workers through behavioral safety methods. Utilizing these straight-forward and effective techniques and his experience in the field, Jim provides training and consultation to assist companies in developing positive and proactive safety programs.	<b>"Excavations: The Grave Danger"</b> workshop will provide an overview of MIOSHA Part 9. Excavations, Trenching, and Shoring. In addition, the electrical hazards and applicable regulations associated will be discussed. It is designed to assist participants in identifying hazards in the workplace, especially those associated with mobile equipment. There will be a brief description of soil mechanics. There will be time for questions and answers during the course. <b>Objectives - The student will be able to:</b> <ul style="list-style-type: none"> <li>• Define the terminology related to excavations according to MIOSHA Standard Part 9 - The Excavation, Trenching, and Shoring Standard</li> <li>• Recognize and classify soil based on soil characteristics</li> <li>• Identify six types of trench collapse</li> <li>• Identify various hazards that contribute to a trench cave-in</li> <li>• Identify employers requirement to test and identify soil types</li> <li>• Identify how MIOSHA Standards (Part1 - General Rules, Part 9 - Excavations, and Part 13 - Mobile Equipment) effect the requirements for the underground industry</li> <li>• Identify the top 10 violations under MIOSHA Part 9</li> <li>• Identify common violations related to the underground industry as they relate to MIOSHA Standards</li> </ul>
Tuesday 1/11/2011 8:30AM to 9:30AM	Theo B. Terry, III, RS Bear Onsite, LLC P.O. Box 507 Somerville, TN 38068 Cell Phone: 901-831-5155 Email: theo.terry@bearonsite.com Web: www.bearonsite.com	Theo Terry started his Onsite Wastewater career 25 years ago as a single county sanitarian. Five years later he moved to the district level where he worked as an Environmental Supervisor for another six years. Terry then moved to the private sector as a Government Relations Specialist working with Zabel Environmental on product approvals and serving on numerous regulatory advisory groups. Along the way he was awarded ten United States Patents for his inventions. Terry left Zabel to join the staff of Ring Industrial Group; the manufacturers of EZflow, as head of their product development team. While with Ring, Terry applied for six more United States Patents. In November of 2008 Terry started his own company; Bear Onsite, LLC, specializing in wastewater filtration. Terry has since had three more United States Patents issued in his name and has applied for four more with three more in development.	<b>"Grease and the Effects to Onsite Systems"</b> - This presentation will give the attendee an overview of the problems associated with grease in onsite systems. It will also show the tools needed to effectively develop a successful plan on how to deal with it.
Tuesday 1/11/2011 9:30AM to 10:30AM	Dr. Steve Safferman (Associate Professor) Michigan State University Department of Biosystems and Agricultural Engineering 212 Farrall Hall East Lansing, MI 48824 Phone: 517-432-0812 Fax: 517-432-2892 Email: safferma@msu.edu	Steve Safferman is an Associate Professor in the Department of Biosystems and Agricultural Engineering at Michigan State University. He has a MS and Ph.D. in environmental engineering and a BS in civil engineering, all from the University of Cincinnati, and is a professional engineer in Ohio. Steve's research, outreach, and teaching programs encompass ecosystem management with a particular emphasis on wastewater treatment and holistic, innovative food processing and animal waste management. He is the director of the new MSU Anaerobic Digestion Research and Education Center.	<b>"Metal Mobilization Due to Excessive Land Application of Carbon"</b> Soil treatment of wastes containing carbon is a viable and economical treatment technology provided that the nutrients and carbon are assimilated so that groundwater is not impacted. The geochemical reactions governing the treatment of the wastes are very complex. If an adequate supply of oxygen is not available the soil remains saturated with water for an extended period of time, metals naturally present in the soil are reduced and become mobile. This is the reported cause of groundwater impact at some locations from the irrigation of very high strength food processing wastewater, bioremediation of petroleum impacted soil, and a domestic wastewater infiltration basin. Research is being conducted on the strategic application of high carbon wastewater to soil in a way that will maximize loading yet is still protective of the environment.
Tuesday 1/11/2011 10:30AM to 11:30AM	Theo B. Terry, III, RS Bear Onsite, LLC P.O. Box 507 Somerville, TN 38068 Cell Phone: 901-831-5155 Email: theo.terry@bearonsite.com Web: www.bearonsite.com	See Above	<b>"The Evolution of Effluent Filters"</b> - This presentation will give the attendee an overview of the early origins of effluent filters. How the two main filtration levels (1/16th and 1/8th inch) came into being from two very different applications and regions of the country. Highlight some of the innovations made in this field by various companies. Explain how the market has grown; not always for the better, due to the regulatory requirement for these products, and explain how new state regulations are looking to move this market to higher performance standards through NSF certifications and more stringent rules.
Tuesday 1/11/2011 12:30PM to 1:30PM	Jim Getting, Ph.D., CHST (Construction Safety Consultant) Michigan Occupational Safety & Health Administration 7150 Harris Drive / P.O. Box 30643 Lansing, MI 48909-8143 Phone: 517-322-1809 Fax 517-322-1374 Email: GettingJ@michigan.gov Web: www.michigan.gov/miosha	See Above	<b>"Be Prepared for a MIOSHA Inspection"</b> This training program is for owners and/or employees who wish to learn more on being prepared for a MIOSHA Enforcement visit at their business, or job site. There is no cost for this program which has been accredited by MDNRE for 1-hour continuing septage education

60th MICHIGAN ONSITE WASTEWATER CONFERENCE SPEAKER/TOPIC INFORMATION

TUESDAY SCHEDULE (Cont.)			
Session Time	Speaker/Contact Info	Speaker Bio	Topic/Synopsis of Presentation
Tuesday 1/11/2011 12:30PM to 1:30PM	Brian Martin (Building Trades Supervisor) Statewide Maintenance Unit State of Michigan – Department of Transportation 7575 Crowner Drive Lansing, MI 48909 Phone: 517-322-5436 Fax 517-322-6951 Email: martinb@michigan.gov Web: www.michigan.gov	Brian Martin has been in the Construction Industry for 34-years. He is a Licensed Builder with the State of Michigan. Brian has 22-years with the Department of Transportation – Statewide Special Crews supervising trades, carpenters, plumbing and HVAC. His unit handles repairs on over 400-buildings through the state including 80-rest areas and 42-maintenance facilities for road maintenance equipment and staff.	<b>"Advantages of Using Waterless Urinals"</b>  - How and why MDOT got involved with waterless urinals and their experience.  - It is now recognized that urine is a major contributor of nutrients to the wastewater stream and that the most difficult aspect of wastewater treatment is to remove the nutrients. The concept of Ecological Sanitation or "Eco-San" is catching on world wide and this often includes urine diversion and utilization. Urine is an excellent fertilizer and is totally sterile after a period of storage if little water is added. In Sweden, over 15% of the toilets sold are urine diversion toilets. The value of urine as a fertilizer resource will be discussed.
Tuesday 1/11/2011 12:30PM to 1:30PM	Dr. Ted Loudon (Professor Emeritus) Biosystems and Agricultural Engineering Michigan State University East Lansing, MI 48824 Phone: 517-353-3741 Fax: 517-432-2892 Email: loudon@msu.edu	Ted has been on the conference planning committee since the mid 70's and is a frequent speaker for the conference. He retired from MSU in 2004 after 33 years as a teacher, researcher and extension water engineer. He has remained active in onsite wastewater training in Michigan, nationally and internationally. Currently he works with Aqua Clara International to help folks in developing countries who make less than \$2 per day have safe drinking water and good sanitation. He is active in Christian missions, and works with Engineers Without Borders, and Engineering Ministries International.	
Tuesday 1/11/2011 1:30PM to 3:30PM	Lori Schuck Barresi (President) (ASAP) Allied Substance Abuse Professionals P.O. Box 1156 Royal Oak, MI 48068-1156 Phone: 248-691-4430 Fax 248-691-4431 Email: loriasap@sbcglobal.net Web: www.asapdrugscreens.com	Lori is President & Owner of (ASAP) Allied Substance Abuse Professionals. This is the company's 10th year. She has been in the business since 1987. Lori is a current Board Member of the Transportation Club of Detroit and has been on the Board of Directors for the Safety Council of the Michigan Trucking Association since 1995.	<b>"Reasonable Suspicion (Supervisors Training) for Drug &amp; Alcohol Testing"</b> This training program is for owners and/or driver supervisors who wish to learn more about reasonable suspicion for drug and alcohol training. The two-hour program fulfills the requirement by the Department of Transportation (Federal Motor Carrier Safety Administration Part 382.603) for Supervisor Training for businesses operating trucks over 26,000-pounds gross vehicle weight as part of their mandated drug & alcohol program requirement. The DOT drug & alcohol guidelines will be discussed. An overview of the signs, symptoms and behavior of drug & alcohol abuse and how to handle these situations will be also covered. A certificate will be awarded to each participant who completes this training.
Tuesday 1/11/2011 1:30PM to 2:30PM	Larry D. Stephens, P.E. (President) Stephens Consulting Services, PC P.O. Box 708 Haslett, MI 48840 Phone: 517-339-8692 Fax 517-339-6330 Email: scscons@yahoo.com Web: www.scsystemsllc.com	Larry is owner of Stephens Consulting Services, P.C., a 30+ year old engineering firm located in Haslett, Michigan. Larry has a Bachelors Degree in Civil Engineering and a Masters of Engineering Degree in Environmental Engineering; and has been a registered professional engineer in Michigan since 1971. Larry has been very active in the onsite wastewater treatment industry in Michigan on both the regulatory and the private sides for nearly his entire career.	<b>"Use of Aerated Storage Ponds Following Packed-Bed Filters for Improved Performance and Lower Costs"</b> When applying for an N.P.D.E.S. permit in the State of Michigan, the Department of Natural Resources and Environment (MDNRE) sets performance requirements based upon its analysis of the assimilative capacity of the watershed. Applicants are many times given the choice whether they wish to discharge continuously or seasonally. Of course, seasonal discharges have the added benefit of reducing the discharge measuring and monitoring costs to a fraction of what a continuous discharger would spend. Stephens Consulting has designed a number of cluster treatment systems that build on the concept of seasonal or intermittent discharge by pre-treating the wastewater with packed-bed filters and then storing it in aerated storage ponds for lengthy periods of time. Doing so provides high performance and lower costs. Results of two case studies will be presented which illustrate a very high level of treatment.
Tuesday 1/11/2011 2:30PM to 3:30PM	Mark Gross, Ph.D., P.E. (Training Manager) Oreco Systems, Inc. 814 Airway Avenue Sutherlin, OR 97479 Phone: 541-459-4449 ext. #445 Fax 541-459-2884 Email: mgross@oreco.com Web: www.oreco.com	Mark Gross, a former professor of Civil Engineering at the University of Arkansas in Fayetteville, is now the Training Manager of Oreco Systems Inc. As Training Manager, Dr. Gross supervises and gives presentations for Oreco's many workshops and trainings – both at the company's Sutherlin, Oregon headquarters and around the country. He has a BS and MS in Civil Engineering and an Engineering Ph.D. Dr. Gross has more than 25-years of experience in the decentralized wastewater field, as a teacher, researcher, and designer. He has authored or co-authored more than 100 articles and is co-author of a book titled Advanced Onsite Wastewater System Technologies. Dr. Gross maintained an active consulting practice and is a registered professional engineer in Arkansas, Tennessee, Missouri, Oregon, and Virginia.	<b>"Troubleshooting Wastewater Treatment Systems"</b> Onsite wastewater treatment systems sometimes malfunction and can be remediated if the cause of the malfunction can be diagnosed. In many cases, the malfunction is caused by one of two problems – leaking tanks or lack of air. Leaking tanks are quite often detected by observing pump run times, high water alarms, low water alarms or similar data provided by simple instrumentation in the system controls. Lack of air is more difficult to determine, however dissolved oxygen measurements, and sometimes video cameras inserted into in plumbing can be used to diagnose the problem. In many cases, either replacing or repairing the tank or the tank penetrations can eliminate the infiltration or the ex-filtration to or from the system. When air is not getting to the treatment system, repairing sags or bellies in piping, or repairing or replacing blowers may rehabilitate the system. Once these two major causes of malfunction have been investigated and repaired, other, less common causes can be investigated. Sometimes excessive use of fats, oil, and grease can overwhelm the treatment system. Sometimes, soaps and detergents can emulsify the fats, oil and grease and allow them to pass through the septic tank and downstream to the treatment system. Sometimes, water softener backwash brine can cause settling problems in the septic tank and result in solids and fats, oil, and grease passing into the treatment system. With commercial systems, one of the major causes of system malfunction is quaternary ammonia compounds in the wastewater from cleaning agents. For nitrogen-reduction systems, low alkalinity results in the nitrifying microbes' inability to complete the nitrogen transformation. This presentation will explain some of the common causes of wastewater treatment system malfunctions, how to diagnose those malfunctions, and some methods to remediate the system and return it to proper working condition.

60th MICHIGAN ONSITE WASTEWATER CONFERENCE SPEAKER/TOPIC INFORMATION

WEDNESDAY SCHEDULE			
Session Time	Speaker/Contact Info	Speaker Bio	Brief Synopsis of Presentation
Wednesday 1/12/2011 8:35AM to 9:30AM	David Ammerman (Reuse National Practice Leader) AECOM 150 N. Orange Avenue Orlando, FL 32801 Phone: 407-808-9156 Email: David.Ammerman@aecom.com Web: www.aecom.com	Mr. Ammerman has over 20 years of experience in the field of water reuse. This work has included planning studies, master plans, permitting preliminary and final design, construction, start-up and operating experience. These reuse projects were conducted in Florida, Texas and the Carolina's with international experience in Egypt, India and Jordan working with AID. Mr. Ammerman is the author of numerous papers on the subject of water reuse and was a principle author of the 1992 and 2004 EPA guidelines for Water Reuse. He is a member of the WEF/AWWA Reuse Committee, WaterReuse Florida and is the Chairman of the FWEA Water Reuse Committee. Mr. Ammerman has a BA and MS in Agricultural Engineering with a minor in Environmental Engineering.	<b>Keynote – "Water Re-Use &amp; Reclamation"</b> A summary of Florida's Experiences with Water reuse. Mr. Ammerman will provide a brief history of reuse in Florida and how its roll has evolved from a focus on effluent disposal to that of a critical part of the States water resources. This will include a discussion of the regulatory pressures specific to Florida and how a mix of reuse strategies can provide the most cost effective solution to those pressures.
Wednesday 1/12/2011 9:30AM to 10:30AM	Mark Gross, Ph.D., P.E. (Training Manager) Orengo Systems, Inc. 814 Airway Avenue Sutherlin, OR 97479 Phone: 541-459-4449 ext. #445 Fax 541-459-2884 Email: mgross@orengo.com Web: www.orengo.com	See Above	<b>Keynote – "From Centralized to Decentralized Wastewater Systems"</b> The traditional approach to wastewater collection and treatment has been to use large gravity collection mains and solids handling pumps to collect an entire city's or region's sewage and convey it to a central activated sludge treatment plant with disinfection and discharge to a river. The decentralized wastewater approach has been advocated as a permanent solution to wastewater collection, treatment and dispersal since 1997 "Response to Congress on Use of Decentralized Wastewater Treatment." The design, management and manufacturing segments have provided innovative solutions to make decentralized wastewater treatment a sustainable solution. This presentation examines some of the technological approaches to decentralized wastewater collection and treatment as compared to the traditional centralized approach.
Wednesday 1/12/2011 11:00AM to 12:00PM	Paul S. Makoski (Environmental Health Manager) Calhoun County Public Health Department 190 E. Michigan Avenue Battle Creek, MI 49014 Phone: 269-969-6341 Fax: 269-969-0035 Email: pmakoski@calhouncountymi.gov Web: www.calhouncountymi.gov	Paul Makoski has been with the Calhoun County Health Department for 25-years and has been involved with all Environmental Health programs. Most of his time however was in the food program where he was the program coordinator. He has a B.S. in Biology & Environmental Science, a B.S. in Zoology and a Masters in Public Administration.	<b>"Enbridge Oil Spill"</b> On July 26, 2010 an Enbridge Oil Pipeline ruptured and released over 815,000-gallons of crude oil causing 40-miles of river and associated shoreline to be contaminated. Since the river was at flood stage the contamination was widespread. Key environmental health program areas were affected – ground water, air quality, emergency food & shelter, evacuation, foodservice, vector control, epidemiology, etc.
Wednesday 1/12/2011 1:00PM to 2:15PM	Mark Gross, Ph.D., P.E. (Training Manager) Orengo Systems, Inc. 814 Airway Avenue Sutherlin, OR 97479 Phone: 541-459-4449 ext. #445 Fax 541-459-2884 Email: mgross@orengo.com Web: www.orengo.com	See Above	<b>"Pressurized Distribution Pumps and Controls"</b> Effectively dosing soil absorption systems, mounds, and any other media-based wastewater treatment system has become much more feasible using modern microelectronics. Research has shown that achieving aerobic unsaturated conditions provides much more effective treatment and will increase the media longevity as compared to dosing in such a way that anaerobic saturated conditions prevail. Small, frequent, evenly-spaced doses throughout the day can be achieved by using the proper pumps, timers, and controls. Also, modern techniques are available for remotely monitoring the pump performance using the world wide web.
Wednesday 1/12/2011 1:00PM to 3:30PM	Skip Ritchey (CEO) Safety Management Systems 7650 Newcosta Avenue Stanwood, MI 49346 Phone: 231-823-8237 Fax: 231-823-8727 Email: safetymgmt@netonecom.net	Skip Ritchey, Former Michigan State Police Safety Auditor is a certified FMCSA expert in DOT Safety Compliance. Skip has grown to national status as a key not speaker in DOT Regulated Safety Compliance issues. He will share his knowledge on how to be compliant as a Michigan Company regulated by the Federal Motor Carrier Safety Regulations.	<b>"DOT Safety Compliance - Hands on Knowledge Training"</b> "DOT Files Training – Easy, Simple Training to Avoid Compliance Tickets" Safety Management Systems will present a power point "Hands-on" training program for you to avoid review fines and tickets. Skip will be going through a "Hands-on" CVSA Level 1 Truck Inspection here during this session.
Wednesday 1/12/2011 2:15PM to 3:30PM	Michael Stephens (Owner/Operator) SCS Systems, LLC P.O. Box 708 Haslett, MI 48840 Phone: 517-339-8692 Fax 517-339-6330 Email: sscscons@yahoo.com Web: www.scsystemsllc.com	Mike has been operating onsite systems since 1998. He is the managing partner of two service companies, SCS Systems and SCS Services. These companies operate and maintain over 250 residential systems, 20 commercial systems, and 13 community systems in 13 counties. Mike is also a certified Industrial/Commercial and Municipal Wastewater Treatment Operator.	<b>"Mounds from a Maintenance Provider Perspective"</b> Experiences with pressure – dosed mound performance and maintenance will be discussed, including practical examples of procedures and protocols. Pros and cons of various components and configurations will be compared. Statistics of mound performance will also be presented.



60th MICHIGAN ONSITE WASTEWATER CONFERENCE SPEAKER/TOPIC INFORMATION

THURSDAY SCHEDULE			
Session Time	Speaker/Contact Info	Speaker Bio	Brief Synopsis of Presentation
Thursday 1/13/2011 11:15AM to 12:00PM	Dan Wagner (Co-Owner) Milan Vault, Inc. 10475 N. Ann Arbor Road Milan, MI 48160 Phone: 734-439-1538 Fax: 734-439-8311 Email: dcwagner@provide.net Web: www.milanvasult.com/septic-tanks/	Dan Wagner is co-owner of Milan Vault, Inc., a manufacturer of precast concrete septic tanks and grease interceptors, located in Milan, Michigan. Mr. Wagner is a past president of the Michigan Concrete Burial Vault Association and the National Precast Concrete Burial Vault Association. In addition, Dan is also currently a member of the Michigan Technical Advisory Council for Onsite Wastewater Treatment, a member of the Board of Directors of the National Precast Concrete Association (NPCA) and serves as Board Liaison to the Quality Assurance Committee of NPCA and is a past member of the Onsite Wastewater Products Committee of NPCA.	<b><u>"Watertight Septic Tanks – Why and How"</u></b>
Thursday 1/13/2011 11:15AM to 12:00PM	Ron Edwards (Director of Safety, CDS, CDT) Michigan Center for Truck Safety 1131 Centennial Way/Suite-2 Lansing, MI 48917 Phone: 517-682-4682 Fax: 517-321-0864 Email: redwards@truckingsafety.org Web: www.truckingsafety.org	Mr. Edwards has worked in the transportation industry for 35-years, beginning with the USDOT in 1975. In 1990 he was recruited by the Michigan Trucking Association and the Michigan Truck Safety Commission to develop a comprehensive management safety program for Michigan motor carriers. Ron currently conducts safety workshops, seminar and presentations, and provides various onsite safety training services for motor carriers throughout the state. He interacts regularly with the trucking industry, its organizations, the regulatory community and other related entities and annually serves as a speaker at various events. He was recently presented with a special commendation from the U.S. Department of Transportation for his years of service to the trucking industry.	<b><u>"Trucking Regulations and the Septage Hauling Industry"</u></b> An overview of the federal and state trucking regulations as well as the record keeping requirements as they apply to the Septage Hauling Industry.
Thursday 1/13/2011 1:00PM to 2:00PM	Sandra Diorka (Director of Public Services) Delhi Charter Township 1492 Aurelius Road Holt, MI 48842 Phone: 517-699-38734 Fax: 517-699-3864 Email: Sandra.Diorka@delhitownship.com Web: www.delhitownship.com	Sandra is a graduate of Western Michigan University with a Bachelor of Science Degree in Biomedical Sciences and a Master of Public Administration. She has over twenty (20) years of experience in the environmental field including the positions of laboratory technician, laboratory supervisor, Industrial Pretreatment Program Coordinator, college instructor, environmental consultant, and wastewater superintendent. Currently, she is the Director of Public Services for Delhi Charter Township.  Sandra has a State of Michigan Class A wastewater treatment plant operators license, is a past chair of the Michigan Water Environment Association's (MWEA) Laboratory Practices Committee, Local Section 11, and the Industrial Pretreatment Program Committee. She is currently a member of the MWEA Process Control Committee and was awarded MWEA Wastewater Worker of the Year (IPP division) in 2002.	<b><u>"FOG" (Fats, Oils &amp; Greases) Control Program</u></b> Presentation Overview: • Grease Sources • Sewer Use Ordinance Language • Best Management Practices • Public Education • Domestic Grease Control
Thursday 1/13/2011 1:00PM to 2:00PM	Therese Wheaton Crystal Environmental 23422 State Highway 18 Springboro, PA 16435 Phone: 800-328-9720 Fax: 815-717-7718 Email: therese@crystalenv.com Web: www.crystalenv.com	Therese is the sole proprietor of Crystal Environmental. In 1992, they began optimizing dewatering systems in waste water through: - Polymer dispersion and Belt Blinding Prevention - Struvite & Vivianite Control; Mineral Deposit Removal - Landfill Leachate Maintenance Since 1992, they have assisted and trained clients on how to maintain and optimize their dewatering facilities. They work in both industrial and municipal areas of dewatering. In the last decade, they have had a special focus on handling septic and grease trap wastes. These systems are being used in industrial pretreatment facilities and municipal receiving and equalization systems with focus on solving regional problems and creating financial profit centers.	<b><u>"Liquid Waste Processing...Growing your Business in Tough Economic Times"</u></b> Pumping Businesses are controlling their own destiny by building processing facilities. Despite feelings of questionable business future, pumpers are teaming up with regulators providing for opportunity and economic growth. Find out more about how septic, grease trap and industrial waste "problems" have become opportunities in Michigan and across the USA!
Thursday 1/13/2011 2:00PM to 3:00PM	Larry D. Stephens, P.E. (President) Stephens Consulting Services, PC P.O. Box 708 Haslett, MI 48840 Phone: 517-339-8692 Fax 517-339-6330 Email: scscons@yahoo.com Web: www.scsystemsllc.com	See Above	<b><u>"Online Design Course on Decentralized and Cluster Wastewater Treatment Systems"</u></b> In a 2007 WERF funded a study entitled Overcoming Barriers to Evaluation and Use of Decentralized Wastewater Technologies and Management. In that study four of the five barriers listed by the authors were: • Engineers' lack of knowledge of decentralized systems • Engineer's unfavorable perception of decentralized systems • Unfavorability of the regulatory system for decentralized systems • Lack of systems thinking applied to wastewater issues One can easily make the connection between these barriers and a lack of education on the subject. In fact, the WERF report goes on to say that: "Universities have limited or no curricula on decentralized technology and management." Funded by a USDA Higher Education Challenge Grant, Michigan State University and Stephens Consulting Services, P.C. joined forces to develop an online course on the Design and Management of Decentralized and Cluster Wastewater Systems.

60th MICHIGAN ONSITE WASTEWATER CONFERENCE SPEAKER/TOPIC INFORMATION

THURSDAY SCHEDULE (cont.)			
Session Time	Speaker/Contact Info	Speaker Bio	Brief Synopsis of Presentation
Thursday 1/13/2011 2:00PM to 3:00PM	Dervin Witmer (Owner) Dig-It Excavating, Inc. 56450 Penn Road Cassopolis, MI 49031 Phone: 269-587-0990 Fax: 269-592-6000 Email: digitexcavating@gmail.com Web: www.digrdone.com	Dervin Witmer is the Owner of Dig-It Excavating of SW Michigan. Started in 2005 from a local opportunity for sewer hookups, Dervin started the company with the focus on a professional image, and quality work. In 2006 by the suggestion of a business colleague, a used septic truck was purchased from a retiring local excavator to service his own septic pumping jobs. Seeing the importance and opportunity of regular septic tank maintenance, Dervin wanted to build the septic service end of the business. In 2009 Pump That Septic, the pumping & service focus of Dig-It Excavating was born. Continuing the tradition of a professional image and quality work, his vehicles, advertising and website reflect that same goal. Dervin balances his time running the company and spending time with his wife and six kids. He enjoys playing volleyball, skiing and raising his own beef cattle.	<b>"Media ideas for promoting my Sanitation Business"</b> Ben's comprehensive work with Dig-it Excavating brought him into the septic industry for intensive research, an in-depth market analysis, and solutions for communication. The results from his solutions-oriented approach were far-reaching: opening a specific service called Pump That Septic, maintaining the mantra to pump every three years and the realization that success in the pumping industry is not derived from trumping the competition but rather communicating the necessity of proper septic tank maintenance to the general public.
Thursday 1/13/2011 2:00PM to 3:00PM	Benjamin Bredeweg (Creative Director/Marketing Strategist) 537 Cedar Street, NE Grand Rapids, MI 49503 Phone: 616-805-9892 Email: bennyalen@gmail.com Web: www.benbredeweg.com	Ben has been working in the field of advertising for over ten years. His work has taken him to three continents. Clearly communicating the essence of one's brand is his passion. Ben is an information junkie always looking for that "perfect" word, that picture that tells the best story, or that bit of data that will transform everyone's thinking. He believes engagement is the key to good advertising. Ben and his wife enjoy traveling between the USA and Spain to see family, friends and clients. His evenings are spent taking his daughter for long walks downtown, playing ball with his boys, thinking how to reach a target market, and taking care of a lawn that is a little too big.	<b>"Enhancements to my Sanitation Business"</b> Growth of your business within your community and growing your relationship with fellow operators.
Thursday 1/13/2011 2:00PM to 3:00PM	Ralph Bailey (Manager) American Rentals 4901 W. Grand River Avenue Lansing, MI 48906 Phone: 517-321-1110 Fax: 517-323-7446 Email: RalphB@wereintents.com Web: www.wereintents.com	Ralph has been in the rental business for over 30 years—14 years with American Rentals (portable toilets). He has been a Michigan Septic Tank Association member for 3 years and served on the Michigan Onsite Wastewater Conference Planning Committee for 2 years.	

# 2011 Michigan Onsite Wastewater Planning Committee

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## **NEW COMMITTEE MEMBER**

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