

# 67th MICHIGAN ONSITE WASTEWATER CONFERENCE & EXHIBITS PRESENTS

*"Onsite Wastewater - Protecting Our Water Resources"*

JANUARY 9 - 11, 2018

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 17-1/2 CSE (Continuing Septage Education) Credit Hours are offered at the conference through MSTA. Enrollment is required. Please contact Karlyn Wickham at the registration desk with questions.*

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

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



# ONSITE WASTEWATER CONFERENCE INFORMATION – PLEASE READ!

## Registration Required For Attendance

**ABOUT THE CONFERENCE** – The conference is a three day educational opportunity for the onsite wastewater industry, including local public health professionals, engineers, consultants, installation contractors, septic tank pumpers, and others interested in onsite wastewater management. Participants 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, on corner of Michigan Avenue and Harrison Road, in East Lansing, Michigan. The Kellogg Center features spacious meeting facilities and excellent overnight accommodations. Parking in the ramp south of the Center is included in the registration.

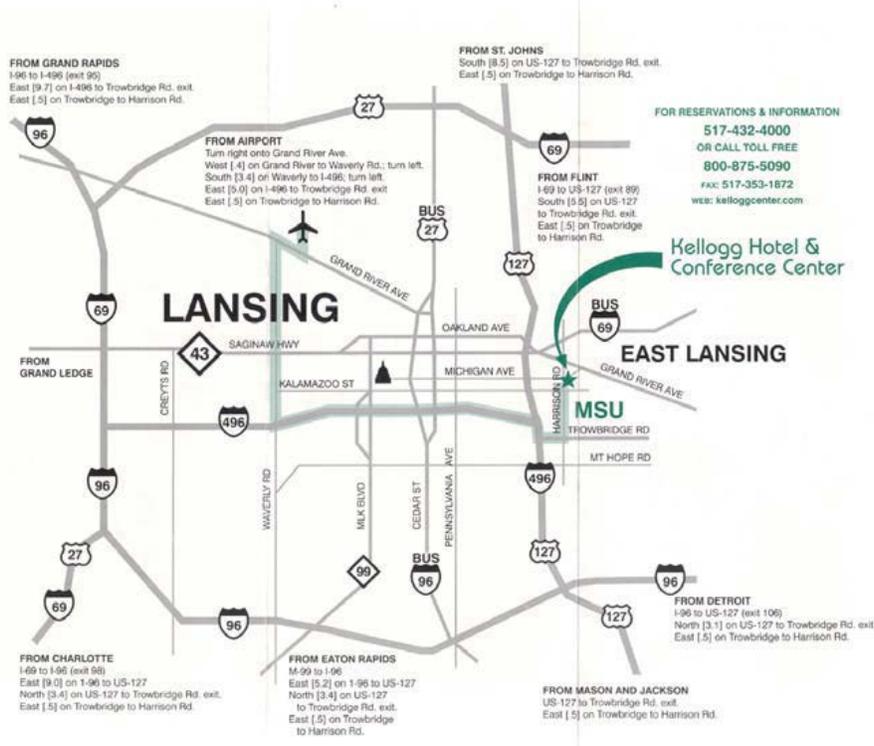
**EXHIBITS** – Over 30 exhibitors will be in the Exhibit Hall, providing an ideal place to exchange ideas and discuss new products and/or services. Representatives from all major suppliers will be present.

**REGISTRATION** – The full conference (3 day) registration fee is \$140.00 per person. A one-day fee is \$35.00 per person for Tuesday, January 9<sup>th</sup>. The one-day fee for Wednesday, January 10<sup>th</sup> or Thursday, January 11<sup>th</sup> is \$65.00 per person. Be sure to plan attendance based on the date and time of desired sessions. **NOTE THAT LATE FEES WILL BE ASSESSED AFTER THE DECEMBER 8<sup>th</sup> REGISTRATION CUT OFF DATE.**

Registration includes lunch and break snacks. REGISTRATION for the conference is REQUIRED! Please utilize the Registration form and return it by the deadline on December 8, 2017. After this date, there will be a \$15 late fee. There will be an additional late fee of \$25 for those registering after **December 15, 2017** and walk-ins. **ATTENTION MICHIGAN SEPTAGE HAULERS!** Conference fee reimbursement is available for most Licensed Septage Haulers through the Michigan Department of Environmental Quality “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 \$90.00 for a standard room, plus taxes, have been made with the Kellogg Center. Lodging reservations must be received by December 8, 2017 to assure a room. Call (800) 875-5090 to reserve your room (mention Group Code #1801MIONSI for the discounted rate). After December 23<sup>rd</sup>, rooms will be on a space available basis. Kellogg Center has great amenities, including the excellent State Room restaurant.

**MSTA BANQUET** – The Annual Michigan Septic Tank Association Banquet will be held on the evening of January 10<sup>th</sup>. Each current MSTA member is entitled to two (2) discounted (\$10) 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 Karlyn Wickham, MSTA Executive Officer, at (989) 808-8648 or email: [executiveofficer.msta.biz@gmail.com](mailto:executiveofficer.msta.biz@gmail.com)). **If you requested discounted banquet tickets and are unable to attend the banquet, please notify Karlyn [(989) 808-8648 or [executiveofficer.msta.biz@gmail.com](mailto:executiveofficer.msta.biz@gmail.com)] to cancel. This will allow for an accurate meal count and saves your association money.**



<b>"Onsite Wastewater - Protecting Our Water Resources"</b>								
<b>CSE Hours</b>	<b>TUESDAY 1/9/2018 Start Time</b>	<b>Track 1 LINCOLN ROOM</b>	<b>Track 2 AUDITORIUM</b>	<b>Track 3 Room 104-A</b>	<b>Track 4 Room 104-B</b>	<b>Outside</b>	<b>Vista Room</b>	
	7:45AM	<b>REGISTRATION</b>						
		<b>Introduction</b> Moderator: Mark Scott	<b>Introduction</b> Moderator: Rob Wolfe	<b>Introduction</b>	<b>Introduction</b> Moderator: Dave Cotton	<b>Introduction</b>	<b>Introduction</b>	
<b>1.00</b>	8:30AM	What Motor Carrier Safety Regulations Apply to You Charles J. Culton [Michigan Truck Safety]	Septage Waste Management Basics Dr. Ebi F. Burutolu (Soil Scientist) & Rob Wolfe (Environmental Quality Analyst) [MDEQ Septage Program]	Michigan's Approach to Onsite Wastewater - Are We Protecting? Kristine Rendon / Dave Cotton / Dale Ladouceur [MDEQ]	Local Health Department Efforts to Meet Onsite Wastewater Accreditation Measures Laura Pobanz [Macomb County Health Department]	Mobile Truck Simulator Jon Crippen [Michigan Truck Safety]  10-minute sessions No CSE Credit	MDEQ One-On-One 30-minute segments [schedule at registration desk] MDEQ Staff	
<b>1.00</b>	9:30AM	CDL Drug Testing and Recommended Training Jim Carlyle [Drug Screens Plus]		Understanding System Failure; The Many Things To Consider Chuck Cousino [Colorado Department of Public Health and Environment]				
<b>1.00</b>	10:30AM	Do you have a Pollution Prevention Plan? Mick Natzel Jr [The General Agency Company] & Representatives from EMC Insurance Companies						
	11:30AM	<b>LUNCH – BIG TEN ROOM (Provided)</b>						
		<b>Introduction</b> Moderator: Mark Scott	<b>Introduction</b> Moderator: Jeremy Hoeh	<b>Introduction</b> Moderator: Kristine Rendon	<b>Introduction</b> Moderator: Greg Braun	<b>Outside</b>		
<b>1.00</b>	12:30PM	Vacuum Pump/Blower Session Mike Rost [National Vacuum Equipment]	Land Application of Septage Waste, Storage Facilities & Disposal at Septage Waste Receiving Facilities – The Experiences of the Past, the Challenges of the Present & Future Dr. Ebi F. Burutolu (Soil Scientist) [MDEQ Septage Program]	Fundamental Components of a System Dave Cotton [MDEQ]	DEQ Administrative Rules for Onsite Wastewater Systems Dale Ladouceur [MDEQ]	Mobile Truck Simulator Jon Crippen [Michigan Truck Safety]  10-minute sessions No CSE Credit		
<b>1.00</b>	1:30PM	Important Rules and Regulations for Portable and Onsite Wastewater on the Farm Laura A. Campbell [Michigan Farm Bureau]	Development and Review of Cropping Plans & Record Keeping of Septage Waste Dr. Ebi F. Burutolu (Soil Scientist) [MDEQ Septage Program]	Soils Training 101 Kristine Rendon [MDEQ]	Prescriptive vs Performance Dave Cotton [MDEQ]			
<b>1.00</b>	2:30PM	Succession Planning for the Family Business J. Kelly Newcomb [Family Business Consultant] Jason Spangle [Esch's Septic, LLC]		Soils Texture Calibration Dale Ladouceur, Dave Cotton & Kristine Rendon [MDEQ]				
	3:30PM	<b>Educational Sessions End</b> <b>Exhibits Open 3:00PM to 5:30PM - Light Buffet Dinner provided by MOWRA</b> <i>(Vendor CASH Give-Aways throughout the afternoon)</i>						
	5:30PM	<b>EXHIBIT HALL CLOSES</b>						

<b>"Onsite Wastewater - Protecting Our Water Resources"</b>					
<b>WEDNESDAY 1/10/2018</b>	<b>BIG TEN ROOM A</b>			<b>BIG TEN ROOM B &amp; C</b>	
<b>Start Time</b>	<b>Joint Sessions</b>				
7:45AM	<b>REGISTRATION</b>				
8:30AM	<b>Introduction</b> Moderator: Joel Kwiatkowski			Exhibits Open 8:00AM to 3:00PM	
8:35AM	Onsite Regulations Across the Nation; Similarities, Differences Chuck Cousino [Colorado Department of Public Health and Environment]				
10:00AM	Break				
10:15AM	Building a Better Business... Are you still considering processing your liquid waste? Therese Wheaton [Crystal Environmental]				
11:15	<b>BREAK IN EXHIBIT HALL 11:15AM to 12:00PM</b>				
12:00PM	<b>LUNCH – BIG TEN ROOM (Provided)</b>				
	<b>Track 1 LINCOLN ROOM</b>	<b>Track 2 AUDITORIUM</b>	<b>Track 3 Room 104-A&amp;B</b>	<b>Outside</b>	
	<b>Introduction</b> Moderator: Joel Kwiatkowski	<b>Introduction</b> Moderator: Randy Rapp	<b>Introduction</b> Moderator: Dale Ladouceur		
1:00PM	Electronic Reporting for Onsite Systems Mike Stephens [SCS Systems, LLC]	Portable Sanitation Panel Session Ray Luden, Jr. [PolyJohn Enterprises Corporation] Brian Bannon [The Slate Pages LLC]	Time of Sale or Transfer Program – a Ten Year Review Regina Young & Jay VanStee [Barry-Eaton Health Department]	Exhibits Open 8:00AM to 3:00PM  CASH GIVE-AWAYS  Mobile Truck Simulator Jon Crippen [Michigan Truck Safety]  10-minute sessions No CSE Credit	
2:00 – 2:30PM	<b>BREAK IN EXHIBIT HALL</b>				
2:30PM	Digital Site Plans for Managing Septic Systems Ken Curry & David Nichol [Amalgam LLC]	MDEQ Septage Program Questions and Answers Jeremy Hoeh, Ebi Burutolu, Jeff Antil, Matt Rockhold and Greg Merricle [MDEQ Septage Program]	Vermont and New England States Statewide Code Perspective Dave Cotton [MDEQ]		
3:30 PM	MOWRA Association Meeting	MSTA Association Meeting <i>[1.50 CSE Hours]</i>			
5:30 PM	<b>SOCIAL HOUR IN BIG TEN A</b>				
6:30 PM	<b>MSTA BANQUET IN BIG TEN A (TICKETS REQUIRED)</b>				

**"Onsite Wastewater - Protecting Our Water Resources"**

CSE Hours	THURSDAY 1/11/2018 Start Time	BIG TEN ROOMS (Partitioned) Joint Session			
	7:45AM	REGISTRATION			
		Introduction			
		Moderator: Joel Kwiatkowski & Greg Braun			
		<b>Round Table Discussions (6-sessions at 30-minutes each):</b>			
		1. MDEQ Onsite Wastewater Program and LHD Accreditation [Dave Cotton , Dale Ladouceur & Kristine Rendon [(MDEQ) ]"			
		2. Health Care Reform Update - [Carolyn Miller (General Agency Company)]			
		3. What's New in Liquid Waste Disposal - [Therese Wheaton (Crystal Environmental)]			
		4. Understanding Your Credit Card Processing Statement and What You Are Paying [Tim Moran (Tim Moran Merchant Services)]			
		5. Portable Restroom Discussion - [Ray Luden, Jr. (PolyJohn Enterprises Corporation)]			
		6. Proper Techniques for Solvent Welding Plastic Joints [Matt Ray or TBA (J.C. Whitlam Manufacturing Company)]			
		7. Succession Planning for the Family Business [J. Kelly Newcomb (Family Business Consultant) & Jason Spangle (Esch's Septic, LLC)]			
		8. Inappropriate Wastes for a Part 117 Hauler to Transport and Why [Greg Merricle & Jeanette M. Noechel (MDEQ)]			
		9. Drop Box vs Distribution Boxes – [Larry Stephens (Stephens Consulting Services, PC)]			
		10. Homeowner Septic System Education: Program Impact and Future Partnerships [Terry Gibb & Bindu Bhakta (MSU)]			
		11. Digital Site Plans for Managing Septic Systems – [David Nichol & Ken Curry (Amalgam LLC)]			
		12. Electronic Reporting for Operation & Maintenance [Mike Stephens (SCS Systems, LLC) & Brooke Mueller (Famhost Business Solutions)]			
		13. Inventory Management – [Brian Bannon (The Slate Pages LLC)]			
		14. How do you bid on Special Events and Contracts? What costs should you consider? [Lindy Boehme (CPACEX)]			
	11:15AM	Break			
		<b>Track 1</b>	<b>Track 2</b>	<b>Track 3</b>	
		<b>LINCOLN ROOM</b>	<b>AUDITORIUM</b>	<b>Outside</b>	
		<b>Introduction</b>	<b>Introduction</b>	Mobile Truck Simulator Jon Crippen [Michigan Truck Safety]	
		Moderator: Ralph Bailey	Moderator: Kristine Rendon		
<b>0.50</b>	11:30AM	Internet Ideas for Promoting Your Sanitation Business Dervin Witmer [Dig-It Excavating, Inc.]	MSU Student Research Project Dr. Erin A. Dreelin & MSU Students [MSU]		10-minute sessions No CSE Credit
	12:00PM	<b>LUNCH – BIG TEN ROOM (Provided)</b>			
		<b>Introduction</b>	<b>Introduction</b>	<b>Outside</b>	
		Moderator: Ralph Bailey	Moderator: Dave Cotton	Mobile Truck Simulator Jon Crippen [Michigan Truck Safety]	
<b>1.00</b>	1:00PM	Preparing Yourself for Dog Encounters Dog Bite Prevention Training Hector Hernandez [First Class Dog Training] 2-hour session	State Wide Sanitary Code Session - Panel Tom Fountain [MALEHA] Larry Stephens [MOWRA] Angela Ayers [MDEQ] Ken Goike [MSTA] Brian Westrin [Michigan Realtors] Chuck Cousino [CO-DPH] 2-hour session		10-minute sessions No CSE Credit
<b>1.00</b>	2:00 PM				
	3:00 PM	Moderator: Joel Kwiatkowski & Dan Milan			
		<b>PRIZE DRAWING IN AUDITORIUM – MUST BE PRESENT TO WIN</b>			

17.50 CSE-Hours

# 2018 Michigan Onsite Wastewater Conference "ONSITE WASTEWATER - PROTECTING OUR WATER RESOURCES"



## Tuesday Course Descriptions

January 9<sup>th</sup> – Courses run from 8:30AM to 3:30PM

Exhibits open from 3:00PM to 5:30PM

### TRACK I - LINCOLN ROOM

#### “What Motor Carrier Safety Regulations Apply to You”

Tuesday 1/9/18 - 8:30AM to 9:30AM

Presented by:

**Charles Culton (Safety Specialist) [Michigan Truck Safety]**

Can you pass a Federal Motor Carrier Safety Administration safety audit? How about a road side inspection? Are your vehicles properly registered and in compliance with state and local motor carrier safety regulations? Are your drivers and driver files in compliance? If not or if you're not sure this could have a major impact on your CSA scores, insurance rates and financial bottom line. This presentation will give you the information needed to comply with state and federal motor carrier safety regulations. Participants will also receive a copy of the Michigan Truck Drivers Guidebook and other useful reference materials.

**Bio:** Charles Culton is a safety specialist with the Michigan Center for Truck Safety providing training and information on both state and federal motor carrier safety regulations. Prior to his employment with the Center for Truck Safety, he worked for Lansing Community College in the Community/Continuing Education department. From 1972 to his retirement in 2002, Charles was employed as a Motor Carrier Officer with the Michigan State Police, serving in Detroit, Pontiac, New Baltimore, Paw Paw and East Lansing Headquarters. Charles held the rank of Officer, Sergeant, Lieutenant (District Commander), and Inspector (Asst. Division Commander of the Motor Carrier Division). Charles is a graduate of Northwestern University School of Police Staff and Command. He was awarded the Federal Motor Carrier Safety Administrations Leadership Award and the Michigan Traffic Safety Commissions Award of Excellence.

#### “CDL Drug Testing and Recommended Training”

Tuesday 1/9/18 - 9:30AM to 10:30AM

Presented by:

**Jim Carlyle (Vice President)**

**[Drug Screens Plus]**

CDL Drug Testing and Training Update will detail the drug screen collection process, handling results (positive and negative), recent changes to the regulations along with possible upcoming changes, initial impressions on potential changing marijuana legislation in Michigan, questions and answers

**Bio:** In his 30+ years of experience in drug testing and occupational medicine, Jim Carlyle, Vice President of Drug Screens Plus, has assisted thousands of clients with drug screen program development and problem management.

#### “Do you have a Pollution Prevention Plan?”

Tuesday 1/9/18 - 10:30AM to 11:30AM

Presented by:

**Mick Natzel Jr, CLCS (Commercial Lines Agent) [The General Agency Company] & Representatives from EMC Insurance Companies**

Mick and Representatives from EMC Insurance Companies will discuss the topic of pollution and how it relates to the work that septic and portable toilet servicers do daily. They will present pollution from three angles: coverage to protect the business-owners (underwriting), possible claim scenarios/situations (claims), preventative and mitigating steps an insured can take regarding pollution (risk improvement).

**Bio:** Mick entered the insurance industry in 2007, when he joined the General Agency as a Commercial Lines Agent. Mick is a Central Michigan graduate, holding a Bachelor of Education degree and currently completing his graduate studies. Mick holds the Michigan Property and Casualty agents license and maintains a Commercial Lines Coverage Specialist designation.

### LUNCH – BIG TEN A&B ROOM (PROVIDED)

Tuesday 1/9/18 - 11:30AM to 12:30PM

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#### “Vacuum Pump/Blower Session”

Tuesday 1/9/18 - 12:30PM to 1:30PM

Presented by:

**Michael Rost (Regional Sales Manager) [National Vacuum Equipment, Inc.]**

Topics include: (1) understanding air machines, (2) vane pumps vs blowers, (3) how to size vacuum pumps related to your work and size of vacuum tank, (4) why blowers? (5) why vane pumps?, (6) trouble-shooting vacuum systems, and (7) how to properly set up the truck in relationship to the vacuum pump. Protection components, drive line, % of PTO, automatics vs manual transmissions, and more will also be discussed, with a Q&A session to wrap up.

**Bio:** Mike has over 32 years of experience in the vacuum truck industry. He has extensive experience serving the vacuum truck OEM (original equipment manufacturer) market throughout North America. He has a vast knowledge with vane pumps, sizing and trouble-shooting vacuum systems, hi-vacuum blowers, truck components, field training, and rebuilding machines. He has worked with the OEMs and the end users in the following markets; portable toilet, grease, septic, oil & gas, dewatering, stationary systems, and commercial. Mike has personally operated vacuum trucks to help him truly understand the systems and what is required to get the job done. Mike has a Bachelor's degree in Marketing from the University of Northern Iowa.

#### “Important Rules and Regulations for Portable and Onsite Wastewater on the Farm”

Tuesday 1/9/18 - 1:30PM to 2:30PM

Presented by:

**Laura A. Campbell (Manager) [Michigan Farm Bureau - Agricultural Ecology Department]**

Whether it's servicing portable toilets and wash stations, working with onsite septic systems, or managing biosolids or manure land application, rules and regulations on farms can differ from other types of operations and facilities. This presentation will identify

some important things to remember when working with farmers and new statutory developments in on-farm wastewater management.

**Bio:** Laura Campbell manages the Agricultural Ecology Department at Michigan Farm Bureau. She and her team assist farmers, government agencies, and legislators with developing and improving environmental stewardship and regulatory standards important to agriculture. She co-chairs the Michigan Agriculture Environmental Assurance Program (MAEAP) Advisory Council, and serves on several state Generally Accepted Agriculture and Management Practice (GAAMP) review teams. Laura also works with statewide task forces on farm bill programs, water use and quality, and nutrient and land management practices. She earned a Bachelor of Science in Environmental Policy from Michigan State University, and previously served with the Michigan Department of Natural Resources in its Minerals Office, which manages mining, and oil and gas development on state lands.

#### “Succession Planning for the Family Business”

Tuesday 1/9/18 - 2:30PM to 3:30PM

Presented by:

**J. Kelly Newcomb (Family Business Consultant) [Newcomb Consulting Group] & Jason Spangle (Owner) [Esch Septic Service LLC]**

Family business succession planning is a process for identifying and developing new leaders who can replace leaders when they leave, retire, or pass away. In family businesses, it often aims for continuity of leadership and improved performance, income, and opportunities for family members and key employees. This session presents the fundamentals of family succession planning along with helpful guidelines for companies just starting the process. Whether you are new to succession planning, or already have a program in place, attendees will find this program useful.

The presentation will bring current and recent experiences into the conversation about, "purchasing the family business" How to tackle financing, crossing your

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t's and dotting your i's, licensing, and having, "that conversation" with the current owner about your interest in purchasing the business.

**Bio:** Kelly Newcomb brings over 30 years of experience helping family businesses thrive. As a past owner of a family business and family member in a successful, multi-generational business, he knows first-hand the challenges small, family businesses face. Mr. Newcomb has entrepreneurial history in starting, building, and selling service companies. He is an accomplished public speaker, author, business consultant, and family business facilitator, and one of only 250 professionals certified worldwide in strategic business planning at the Balance Scorecard Institute. When he is not helping his family business customers around the country, Kelly can be found playing at the beach with his two pups, Sulley and Roo.

**Bio:** Jason Spangle is the owner of Esch's Septic Service located in Mio, Michigan. After teaching elementary school for six years and working part time as summer help for Esch's Septic Service Jason left the teaching profession and pursued full time work with Esch's Septic. After a four years of full time employment the business became available for purchase. Jason and his wife Heidi purchased the business in January of 2017. Jason and Heidi reside in Mio Michigan with their six children who keep them busy along with running the business.

#### **CASH PRIZE DRAWING IN EXHIBIT HALL**

**Tuesday 1/9/18 - 3:00PM to 5:30PM**

**Exhibits Open - Light Buffet Dinner provided by MOWRA (Vendor CASH Giveaways Available)**

#### **TRACK II- AUDITORIUM**

##### **"Septage Waste Management Basics"**

**Tuesday 1/9/18 - 8:30AM to 11:30AM**

Presented by:

**Dr. Ebi F. Burutolu (Soil Scientist) & Rob Wolfe (Environmental Quality Analyst) [MDEQ]**

This is a basic course. It is the ABCs of Part 117, which is the Michigan law that regulates the servicing of septage waste. It is designed for new septage waste business owners and their employees/workers. The information in this course will also be beneficial to business owners and their employees/workers who have been servicing septage waste for many years and want refresher knowledge of Part 117. It will cover septage waste basics including, but not limited to: license application processes, requirements for septage vehicles, inspections, license fees, license renewals, violations, compliance, enforcement, and license revocation. It will also cover where to find information about the Septage Program online. The presentation will also cover the basics of land application of septage waste, including: land site application, effective communication with surrounding parcel owners, site evaluation, and authorization processes. An introduction to the Guidance Manual for the Land Application of Septage Waste will be presented. The important aspects of septage waste management include the cleaning, removing, and transportation and disposal of septage to land and/or septage waste receiving facilities. Protection of the waters of the state is a fundamental principle in septage waste management.

**Bio:** Ebi is currently working for the Michigan Department of Environmental Quality as a Soil Scientist. He works with septage haulers, especially those who apply septage waste to authorized land sites. His interest is in educating septage waste haulers and farmers on ways of maximizing the use of a valuable resource, such as septage waste, in crop production. The goal is to improve the efficient application of septage waste and protect the environment. Prior to coming to the Department of Environmental Quality, Ebi had worked for several years in a Local Health Department in Michigan on environmental health issues. Furthermore, he had also worked as an agricultural extension officer and agricultural consultant. Ebi also taught crop and soil sciences/agronomy courses in a university abroad.

**Bio:** Rob is currently working for the Michigan Department of Environmental Quality (DEQ), Drinking Water and Municipal Assistance Division, as an

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Environmental Quality Analyst in the Upper Peninsula District Office. He works with haulers on maintaining compliance, especially those who apply septage waste to authorized land sites. Rob also covers additional Environmental Health Programs within the Upper Peninsula district and is the local health department's resource for the onsite sewage program, for subdivision and condominium projects, and the private/Type III Public water supplies programs. Rob also oversees the land application of biosolids in the upper peninsula under the Water Resources Division. Prior to coming to the Upper Peninsula, Rob worked in the Saginaw Bay District in the Groundwater, Solid Waste and Hazardous Waste programs. Prior to the DEQ, Rob worked for the Kellogg Foundation's Groundwater Education in Michigan (GEM) Program. Rob received both of his degrees - Master of Science – Geography and Bachelor of Science – Geology from Eastern Michigan University.

#### **LUNCH – BIG TEN A&B ROOM (PROVIDED)**

*Tuesday 1/9/18 - 11:30AM to 12:30PM*

### **“Land Application of Septage Waste, Storage Facilities & Disposal at Septage Waste Receiving Facilities – The Experiences of the Past, and the Challenges of the Present & Future”**

*Tuesday 1/9/18 - 12:30PM to 1:30PM*

Presented by:

**Dr. Ebi F. Burutolu (Soil Scientist) [MDEQ]**

This course will briefly review disposal and storage options of septage waste in Michigan. It will review what was observed in the past before the amendment of Part 117 and what has been observed over time after the law was amended. It will address what is working so far and what's not working as expected. It will highlight emerging challenges in the management of septage waste in Michigan. This course will review the process of how to get a septage waste receiving facility authorized to accept septage waste. It will also review the process of how to get a septage storage facility approved for the proper management of septage waste.

In addition, pollution prevention through effective septage waste management will be reviewed.

**Bio: Above**

### **“Development and Review of Cropping Plans & Record Keeping of Septage Waste”**

*Tuesday 1/9/18 - 1:30PM to 2:30PM*

Presented by:

**Dr. Ebi F. Burutolu (Soil Scientist) [MDEQ]**

This course will provide guidance on how to develop a cropping plan and how to review it. It will highlight common errors and how to avoid them. It will review how to take soil samples for routine analysis. It will provide guidance on self-inspection of land sites by haulers and inspection by regulatory agencies or departments. Proper record keeping by haulers that land apply septage waste and haulers that dispose at septage waste receiving facilities only, will be reviewed. It will also review how to handle complaints.

**Bio: Above**

#### **CASH PRIZE DRAWING IN EXHIBIT HALL**

*Tuesday 1/9/18 - 3:00PM to 5:30PM*

**Exhibits Open - Light Buffet Dinner provided by MOWRA (Vendor CASH Giveaways available)**

#### **TRACK III & IV- ROOMS 104 A&B**

### **“Michigan's Approach to Onsite Wastewater - Are We Protecting?”**

*Tuesday 1/9/18 - 8:30AM to 9:30AM*

Presented by:

**Dave Cotton PE, Dale Ladouceur RS, & Kristine Rendon, REHS [MDEQ]**

Michigan does not have statewide minimum standards for the management of all onsite wastewater treatment and dispersal systems. The siting and design standards for small systems are determined locally, often based on historical practices. Do our current design practices

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**Exhibits open from 3:00PM to 5:30PM**

across the state protect public health and the environment?

**Bio:** Dave is a Profession Engineer working for MDEQ since the spring of 2014. He graduated from Michigan Tech and has worked in the field of decentralized wastewater management his entire career. Dave has worked in many aspects of the onsite industry, including design, regulation, installation, manufacture, training, and operation & maintenance.

**Bio:** Dale is a Registered Sanitarian. He is employed with the Michigan Department of Environmental Quality (MDEQ), Office of Drinking Water and Municipal Assistance, Environmental Health Programs Unit, Onsite Wastewater Program and has been with the DEQ for 17+ years. Previous to working for the MDEQ, Dale worked for the Mid-Michigan District Health Department for over 12 years. Dale has a B.S. degree in Environmental Health from Ferris State College (a.k.a. – Ferris State University)

**Bio:** Kristine is an Environmental Quality Analyst in the Onsite Wastewater Program with the Michigan Department of Environmental Quality (DEQ). Before working with DEQ, Kristine worked as an Environmental Health Sanitarian with two District Health Departments. She is a Registered Environmental Health Specialist through the National Environmental Health Association. Kristine has a B.S. degree in Biology from Ohio Dominican University and she is currently attending the University of Saint Francis working towards a Masters in Environmental Health.

### “Local Health Department Efforts to Meet Onsite Wastewater Accreditation Measures”

**Tuesday 1/9/18 – 9:30AM to 10:30AM**

Presented by:

**Laura Pobanz (Environmental Health Manager)  
[Macomb County Health Department]**

Mention the word “accreditation” to any local health official and you will likely see a look of pain flash across their face. Accreditation is a lot of work regardless of which side of the table you are on; evaluator or

evaluator. With Michigan’s unique situation of not having a statewide onsite sewage code, there has historically been a large range of local regulations for owners and contractors to interpret and navigate. In an effort to bring some consistency to Michigan’s Public Health programs, accreditation was born. Establishing a consistently successful program is a process of constant refinement. We’ll look at one county’s efforts to meet onsite sewage accreditation measures.

**Bio:** Laura Pobanz earned a Bachelor’s of Science degree in Environmental Health from Ferris State University in 1985 (it was still known Ferris State College back then). She has been employed with Macomb County Health Department for 32 years, spending 31 of those years working with the groundwater and onsite sewage programs where she has served as the supervisor of the programs for the past 17 years. Laura has lectured throughout Michigan on topics ranging from onsite sewage disposal, groundwater and water wells, and recreational surface water topics. When she is not protecting Michigan’s resources, you can find her outside, enjoying the outdoors, gardening, and hunting.

### “Understanding System Failure; The Many Things to Consider”

**Tuesday 1/9/18 – 10:30AM to 11:30AM**

Presented by:

**Charles J. Cousino (Onsite Wastewater Treatment System Coordinator) [Colorado Department of Public Health and Environment]**

What is an onsite system failure? We all have predetermined thoughts on why a system may have failed. However, we may have not looked deep enough into what is actually contained within the wastewater itself. What you put into your system can possibly have more to do with its function than the design or the maintenance. Pharmaceuticals, laundry products, cleaners, or other constituents can affect the bacterial activity within your treatment system; which will ultimately affect its long-term function. This presentation will provide a brief overview of some things that are not typically thought to be a major cause of system failure.

# 2018 Michigan Onsite Wastewater Conference

## "ONSITE WASTEWATER - PROTECTING OUR WATER RESOURCES"



### Tuesday Course Descriptions

**January 9<sup>th</sup> – Courses run from 8:30AM to 3:30PM**

**Exhibits open from 3:00PM to 5:30PM**

**Bio:** Chuck is the Onsite Wastewater Program Coordinator at the Colorado Department of Public Health and Environment. He earned a Bachelor of Science Degree in Environmental Health from Ferris State University; and is a Registered Environmental Health Specialist. Chuck's professional career began, many years ago, as an REHS at Livingston County Health Department. He then moved to the dark side, where the majority of his experience in the onsite industry came from over 20 years as project manager of the onsite wastewater group at Boss Engineering in Howell, Michigan. In this position, he gained extensive experience in soil and site evaluations as well as the design and management of residential and small-scale onsite wastewater treatment systems. Chuck is a former MOWRA president, former president of Colorado Professionals in Onsite Wastewater, and recent past president of SORA, the State Onsite Regulators Association.

#### **LUNCH – BIG TEN A&B ROOM (PROVIDED)**

**Tuesday 1/9/18 - 11:30AM to 12:30PM**

#### **TRACK III ROOM 104-A**

### **“Fundamental Components of a System”**

**Tuesday 1/9/18 - 12:30PM to 1:30PM**

Presented by:

**Dave Cotton PE [MDEQ]**

Onsite wastewater treatment and dispersal systems are made up of different components ranging from the collection sewer to the soil dispersal equipment. This session will briefly look at the issues relating to the function, design, installation, inspection and performance monitoring of the individual components.

**Bio Above**

### **“Soils Training 101”**

**Tuesday 1/9/18 – 1:30PM to 2:30PM**

Presented by:

**Kristine Rendon REHS [MDEQ]**

Soils are one of the most important factors relating to determining site suitability and system design. Additionally, soil conditions can be critically important during the installation of a wastewater treatment and dispersal system. During this presentation we will look at soil terminology, texture classification, structure, and the impact of soil characteristics on wastewater system design and overall management.

**Bio Above**

#### **TRACK IV ROOM 104-B**

### **“DEQ Administrative Rules for Onsite Wastewater Systems”**

**Tuesday 1/9/18 - 12:30PM to 1:30PM**

Presented by:

**Dale Ladouceur RS [MDEQ]**

This presentation is Part 1 of a 2 Part training program for evaluating and determining site suitability for onsite systems under the 2001 DEQ administrative rules for subdivisions and land divisions. The administrative rules apply to subdivisions, condominium developments and less than one-acre land divisions. Part 1 will cover the rules applicable to onsite wastewater systems. The presentation of Part 2, which covers site suitability for onsite water supplies is being planned for upcoming conferences during the spring 2018.

**Bio Above**

### **“Prescriptive vs Performance”**

**Tuesday 1/9/18 – 1:30PM to 2:30PM**

Presented by:

**Dave Cotton PE [MDEQ]**

Into the future – Historically we have had a prescriptive approach to permitting – you find X you do Y – now with technology and science we can meet specific performance or treatment levels to protect public health and the environment.

**Bio Above**

# 2018 Michigan Onsite Wastewater Conference

## "ONSITE WASTEWATER - PROTECTING OUR WATER RESOURCES"



### Tuesday Course Descriptions

January 9<sup>th</sup> – Courses run from 8:30AM to 3:30PM

Exhibits open from 3:00PM to 5:30PM

#### **TRACK III & IV- ROOMS 104 A&B**

##### **“Soils Texture Calibration”**

Tuesday 1/9/18 - 2:30PM to 3:30PM

Presented by:

**Dave Cotton PE, Dale Ladouceur RS, & Kristine Rendon, REHS [MDEQ]**

This session is the opportunity to calibrate your soil texturing technique. Identifying the USDA textural class of a soil is a critical skill required of those involved in determining site suitability and wastewater system design. This is a hands-on training session for determining many of the of the soil textures found in Michigan.

Bios Above

#### **CASH PRIZE DRAWING IN EXHIBIT HALL**

Tuesday 1/9/18 - 3:00PM to 5:30PM

Exhibits Open - Light Buffet Dinner provided by MOWRA (Vendor CASH Giveaways available)

#### **OUTSIDE – FRONT LOT**

##### **“Mobile Truck Simulator”**

Tuesday 1/9/18 – 8:30AM to 11:30AM & 12:00PM to 3:30PM

\* Note there is not CSE Credit for this Demo

Presented by:

**Jon Crippen (Safety Specialist)**  
[Michigan Center for Truck Safety]

This year, the Michigan Center for Truck Safety will be on site with the Mobile Truck Simulator. Participants at the conference will have the opportunity to get behind the wheel of the “Big Rig” (in the simulator) to learn more about their driving skills. The Michigan Center for Truck Safety is a non-profit organization dedicated to improving highway safety on Michigan's roadways, through comprehensive safety educational programs for Michigan's trucking industry. These services and

programs are sponsored by the Michigan Truck Safety Commission (MTSC) and funded through a grant to Michigan Trucking Association (MTA) Education Center, Inc. With a focus on state and federal trucking regulations, a skilled staff of safety professionals conduct a variety of programs for both truck drivers and management personnel. These programs provide training on a wide range of topics which include, but are not limited to: Drug and Alcohol testing (FMCSR 40, 382), Qualification of Drivers (FMCSR 391), Hours of Service (FMCSR 395), Vehicle Inspection and Maintenance (FMCSR 396), Driver Performance Enhancement Training Programs, and Fatigue Management. Training programs offered by the Center are available (free of charge), through workshops and seminars and a variety of media and interactive formats. In addition to the industry programs and services, the Center serves as a resource for Michigan's motoring public on sharing the road safely with trucks and general highway safety.

#### **CASH PRIZE DRAWING IN EXHIBIT HALL**

Tuesday 1/9/18 - 3:00PM to 5:30PM

Exhibits Open - Light Buffet Dinner provided by MOWRA (Vendor CASH Giveaways available)

#### **VISTA ROOM**

##### **“MDEQ One-On-One”**

Tuesday 1/9/18 – 8:30AM to 11:30AM

30-minute segments [schedule at registration desk]

Presented by: MDEQ Staff

#### **CASH PRIZE DRAWING IN EXHIBIT HALL**

Tuesday 1/9/18 - 3:00PM to 5:30PM

Exhibits Open - Light Buffet Dinner provided by MOWRA (Vendor CASH Giveaways available)

# 2018 Michigan Onsite Wastewater Conference

## "ONSITE WASTEWATER - PROTECTING OUR WATER RESOURCES"



### Wednesday Course Descriptions

January 10<sup>th</sup> – Courses run from 8:30AM to 3:30PM

Exhibits open from 8:00AM to 3:00PM

#### **JOINT SESSION – BIG TEN ROOM**

##### **INTRODUCTION**

**Joel Kwiatkowski (MEHA)**

*Wednesday 1/10/18 8:30AM*

#### **“Onsite Across the Nation: Similarities, Differences”**

*Wednesday 1/10/18 - 8:35AM to 10:00AM*

Presented by:

**Charles J. Cousino – [Keynote]**

**(Onsite Wastewater Treatment System Coordinator) [Colorado Department of Public Health and Environment]**

Chuck Cousino is the Onsite Wastewater Program Coordinator for the State of Colorado, and recent past president of the nation-wide State Onsite Regulators Association (SORA). Having worked the majority of his professional career in Michigan, Chuck has a unique perspective relative to how onsite programs across the country vary from each other as well as how they are similar. This presentation will touch on a variety of topics, including: (1) how soils, funding, historic comfort zones, and politics shape regulations across the nation, (2) how educational requirements for onsite practitioners vary across the nation; (3) suggestions on developing and implementing a statewide onsite regulation, (4) design considerations for difficult sites in mountainous regions, (5) soils with high rock content, and (6) how the development of a state-wide onsite wastewater program managers groups can assist and advance local onsite programs. Chuck will also provide an introduction to SORA (State Onsite Regulators Assoc.), as well as information on how this group can assist your local onsite program.

**Bio Above**

##### **BREAK**

*Wednesday 1/10/18 - 10:00AM to 10:15AM*

#### **“Building a Better Business... Are You Still Considering Processing Your Liquid Waste?”**

*Wednesday 1/10/18 - 10:15AM to 11:15AM*

Presented by:

**Therese Wheaton (Special Guest Speaker)**  
**[Crystal Environmental]**

Therese Wheaton’s firm, Crystal Environmental, continues to service and optimize dewatering facilities. In the mid 90’s, they focused on supplying equipment for pumpers, and successfully handling septic, grease trap, and industrial concentrated waste streams. Their experience in matching business goals with local, state, and federal guidelines has been paramount in their success. These systems, from 5,000 gallons per week to 450,000 gallons per day, are being operated across the country and solving local and regional liquid waste disposal needs. Continue the journey with Therese Wheaton to see the work accomplished in the last year. She will share with you how others are building small, Medium, and LARGE processing systems and meeting the most stringent governmental guidelines for pennies a gallon.

**Bio:** Crystal Environmental continues to service and optimize dewatering facilities. In the mid 90’s, they focused on supplying equipment for the pumpers, successfully handling septic, grease trap, and industrial concentrated waste streams. Their experience in matching business goals with local, state, and federal guidelines has been paramount in their success. These systems, from 5,000 gallons per week to 450,000 gallons per day, are being operated across the country and solving local and regional liquid waste disposal needs.

##### **BREAK IN EXHIBIT HALL**

*Wednesday 1/10/18 11:15AM to 12:00PM*

#### **LUNCH – BIG TEN A&B ROOM (PROVIDED)**

*Wednesday 1/10/18 12:00PM to 1:00PM*

#### **TRACK I - LINCOLN ROOM**

#### **“Electronic Reporting for Onsite Systems”**

*Wednesday 1/10/18 - 1:00PM to 2:00PM*

# 2018 Michigan Onsite Wastewater Conference "ONSITE WASTEWATER - PROTECTING OUR WATER RESOURCES"



## Wednesday Course Descriptions

**January 10<sup>th</sup> – Courses run from 8:30AM to 3:30PM**

**Exhibits open from 8:00AM to 3:00PM**

Presented by:

**Mike Stephens (Managing Member) [SCS Systems LLC] & Brooke Mueller (Customer Relations Specialist) [Famhost Business Solutions]**

Digital recordkeeping and reporting is on the rise. This session will explain the benefits of going paperless, as well as the opportunities for going digital with day-to-day operations, including recordkeeping, compliance reporting, customer communications, routing, and accounting system integration. This session will also give some tips on what to expect and how to prepare for going digital and selecting the right product for your company.

Do you want to avoid receiving citations, being placed out of service, or receiving an unsatisfactory CSA score or carrier safety audit? This presentation will review parts of the Federal Motor Carrier Safety Regulations, The Michigan Vehicle Code, and other regulations that you may not know apply to you, your drivers, and vehicles. Participants will receive a copy of the Michigan Truck Driver's Guidebook and other useful reference materials.

**Bio:** Mike Stephens is the owner/operator for SCS Systems LLC, a wastewater operation and maintenance company in Haslett, Michigan. They offer contracted operations for both small and large systems across lower Michigan.

**Bio:** Brooke Mueller is the customer relations specialist for Famhost in Wichita, Kansas. Famhost Business Solutions offers a variety of electronic solutions for small businesses to maximize revenue, increase efficiency, and manage their service business.

### **BREAK IN EXHIBIT HALL**

**Wednesday 1/10/18 - 2:00PM to 2:30PM**

## **“Digital Site Plans for Managing Septic Systems”**

**Wednesday 1/10/18 – 2:30PM to 3:30PM**

Presented by:

**Ken Curry and David Nichol (Co-founders)  
[Amalgam LLC]**

Septic system permits and site plans contain a wealth of information that, when used effectively, can help regulators manage septic system inventories for the purpose of reducing risk and improving public health. The problem is that most septic system data is managed for the permit transaction and record keeping, and lacks any good options to accurately represent septic systems on a map. Both of these problems limit how septic system data can be used for assessing risk and improving management tools. To solve these problems, permit data, digital site plans, and enhanced location are integrated in one management system, creating new opportunities to turn data into useful insights that help regulators work more efficiently and understand more about the health of septic system inventories. Learn how modern technologies are being used to assess and monitor at-risk systems, gain new insights about septic system inventories, and provide regulators with effective new management tools. The presentation will discuss key components of an integrated management system and provide a live demonstration that includes mapping septic systems, assessing risk, visualizing septic system data for insights, and understanding the value of location for managing septic system inventories.

**Bio:** Ken Curry, Co-founder, B.S. Geography, Central Michigan University, M.A. Geography, Ohio University. Ken has more than 20 years of GIS experience working for local and state government, at Central Michigan University and for the last 11 years as co-founder of Amalgam.

**Bio:** Dave Nichol, Co-founder, B.S. Geography, Central Michigan University, M.S. Geography, Central Michigan University. Dave has more than 10 years of GIS experience working at Central Michigan University and as co-founder of Amalgam.

## **MOWRA Association Meeting**

**Wednesday 1/10/18 - 3:30PM to 5:30PM**

# 2018 Michigan Onsite Wastewater Conference "ONSITE WASTEWATER - PROTECTING OUR WATER RESOURCES"



## Wednesday Course Descriptions

January 10<sup>th</sup> – Courses run from 8:30AM to 3:30PM

Exhibits open from 8:00AM to 3:00PM

### TRACK II - AUDITORIUM

#### “Portable Sanitation Panel Discussion (Portable Restroom Inventory Management System)”

Wednesday 1/10/18 – 1:00PM to 2:00PM

Presented by:

**Ray Luden, Jr. [PolyJohn Enterprises Corporation], & Brian Bannon [The Slate Pages LLC]**

This panel discussion will discuss portable sanitation issues.

Join Ray Luden for an inspiring presentation on why you should be proud of the service(s) you provide. Some folks in our line of work forget the important need for our services and underestimate the "value". Ray hopes to inspire you in "Garnering Respect in the Restroom Business" and put the obsolete slogan of "Tanks for Nothing" aside. Part of his objective is to help you wear professionalism and respect in a business that everybody needs.

Brian Bannon will share how The Slate Pages LLC has developed a cost effective Portable Restroom Inventory Management System. The system consists of a 2.5" x 3" anodized aluminum tag "Slate" that is mounted on the unit and scanned with an iPhone or iPad. Once scanned, it gives you the ability to document cleaning, damage, add photos and capture a GPS coordinate. It is a onetime price per tag and there is NO MONTHLY SUBSCRIPTION. Inventory Management for the Average Joe!

**Bio:** After having spent 20 years on the operations side of the portable sanitation business with the family business, Farnham Sanitation Systems, Ray Luden opted to join the PolyJohn team in 1999. He doesn't know where all that time has gone. Ray has covered most of the states east of the Mississippi in his 18+ years with PolyJohn and learned so much from his customers regarding their businesses. He really enjoys being on location and trying to share his knowledge to assist folks any way possible. Ray contributes his success to hard

work, commitment, and applying lessons learned. He says treating folks nicely and providing exceptional customer service helps, too. He says it's a great business and he has met so many nice people.

**Bio:** Brian Bannon has a proven track record of successes as a founder, active investor, and owner of several companies in manufacturing, construction, energy, and the robotics industry. He is a self-taught entrepreneur with 25 years of experience in building companies. A self-starter, Brian has an unusual mix of technical expertise and business acumen, acquired through extensive real-world experience. He possesses specific talents and competencies in uncovering new markets and developing services and products to meet those needs.

### BREAK IN EXHIBIT HALL

Wednesday 1/10/18 - 2:00PM to 2:30PM

#### “MDEQ Septage Program Questions and Answers”

Wednesday 1/10/18 – 2:30PM to 3:30PM

Presented by: MDEQ Septage Program Staff

**Jeff Antil (Environmental Quality Analyst)**

**Dr. Ebi F. Burutolu (Soil Scientist)**

**Jeremy Hoeh (Environmental Health Programs Unit Chief)**

**Greg Merricle (Septage Program Coordinator)**

**Matt Rockhold (MDEQ Registration Technician)**

**Rob Wolfe (MDEQ Program Analyst)**

This session presents an opportunity for haulers and others to ask the Septage Program staff questions and get answers about Part 117, the state law that governs the servicing of septage waste in Michigan. The Septage Program has also posted answers to frequently asked questions in its website at: [www.michigan.gov/deqseptage](http://www.michigan.gov/deqseptage).

**Bio:** Jeff is new to the onsite and wastewater industry and brings with him over 12 years' experience working in the Drinking Water Program for the MDEQ

**Bio:** Dr. Ebi F. Burutolu (See Above)

# 2018 Michigan Onsite Wastewater Conference

## "ONSITE WASTEWATER - PROTECTING OUR WATER RESOURCES"



### Wednesday Course Descriptions

**January 10<sup>th</sup> – Courses run from 8:30AM to 3:30PM**

**Exhibits open from 8:00AM to 3:00PM**

**Bio:** Jeremy Hoeh has overseen the Environmental Health Programs Unit within the DEQ since January 2015. This Unit houses the Campgrounds, Swimming Pools, Onsite Wastewater, and Septage Programs. He has been with the DEQ since 2002, starting in the Air Quality Division. Jeremy is a licensed professional engineer in the State of Michigan.

**Bio:** Greg Merricle has over 16 years of experience working for the Biosolids program in DEQ's Water Resources Division. In addition, Greg has experience in the Industrial Storm-water Program, the CAFO Program, PEAS investigations, and Part 5 – Storage of Polluting Materials. Greg has a Bachelor's Degree in Biology from Alma College, and a Master's Degree in Hazardous Waste Management from the College of Engineering at Wayne State University.

**Bio:** Matt Rockhold has worked for the State of Michigan since 2000. He worked with the Department of State from 2000-2012. His last job with the Department of State was an investigator of complaints of dealerships, repair facilities, and mechanics. Matt started with MDEQ in 2012. He has enjoyed being the registration technician for the Septage and Onsite Wastewater Programs.

**Bio:** Rob Wolfe (See Above)

### **MSTA Association Meeting**

*Wednesday 1/10/18 - 3:30PM to 5:30PM*

### **TRACK III ROOMS 104 A&B**

#### **“Time of Sale or Transfer Program – a Ten Year Review”**

*Wednesday 1/10/18 - 1:00PM to 2:00PM*

Presented by:

**Regina Young, R.S. & Jay VanStee [Barry-Eaton District Health Department]**

The Barry-Eaton District Health Department (BEDHD) began the Time of Sale or Transfer (TOST) program in 2007. The purpose of TOST is to protect the quality of water resources, on-site water supplies, and the natural

environment and to protect public health. TOST fulfills this purpose by making sure that on-site drinking water wells and sewage (septic) systems are not in a state of failure and do not require important maintenance when a property is either sold or the ownership is transferred. In this session we will hear from the program administrators on the success and hurdles of the TOST program after ten years.

**Bio:** Regina Young is the Director of Environmental Health for the Barry-Eaton District Health Department. She has worked in Environmental Health for 28 years. Regina studied Environmental Health Management at Ferris State University. She is married and has two children completing graduate and undergraduate degrees. Regina has a passion for environmental public health and enjoys traveling, bicycle riding, and landscaping.

**Bio:** Jay VanStee is the supervisor for the Water Protection Team for the Barry-Eaton District Health Department. He has worked in Environmental Health for 13 years. Jay studied Biology and Environmental Earth Science at Western Michigan University. Jay is married and has two children currently enrolled in college. His passions are hunting and fishing and generally anything he can do outdoors, especially with his family.

### **BREAK IN EXHIBIT HALL**

*Wednesday 1/10/18 - 2:00PM to 2:30PM*

#### **“Vermont and New England States Statewide Code Perspective”**

*Wednesday 1/10/18 - 2:30PM to 3:30PM*

Presented by:

**Dave Cotton PE [MDEQ]**

Dave has worked with Onsite Wastewater Treatment and Dispersal Codes across New England and New York. This session will contrast and compare different aspects of the statewide code requirements and their administration.

# 2018 Michigan Onsite Wastewater Conference "ONSITE WASTEWATER - PROTECTING OUR WATER RESOURCES"



**Wednesday Course Descriptions**  
**January 10<sup>th</sup> – Courses run from 8:30AM to 3:30PM**  
**Exhibits open from 8:00AM to 3:00PM**

## **OUTSIDE – FRONT LOT**

### **“Mobile Truck Simulator”**

*Wednesday 1/10/18 – 1:00PM to 3:30PM*  
*\* Note there is not CSE Credit for this Demo*

Presented by:

**Jon Crippen (Safety Specialist)**  
[Michigan Center for Truck Safety]

**Bio:** Above

**SAVE THE DATES!**  
**2019 Michigan Onsite**  
**Wastewater Conference**  
**January 8-10, 2019**

## **SOCIAL HOUR – BIG TEN A CASH PRIZE DRAWINGS**

*Wednesday 1/10/18 - 5:30PM to 6:30PM*

## **MSTA BANQUET – BIG TEN A (TICKET REQUIRED)**

*Wednesday 1/10/18 - 6:30PM*

CONFERENCE SPONSORS: MDEQ, MEHA,  
MOWRA, MSTA, MSU, MWEA



# 2018 Michigan Onsite Wastewater Conference

## "ONSITE WASTEWATER - PROTECTING OUR WATER RESOURCES"



### Thursday Course Descriptions

#### January 11<sup>th</sup> – Courses run from 8:15AM to 3:00PM

#### **JOINT SESSION – BIG TEN ROOM**

Thursday 1/11/18 - 8:15AM to 11:15AM

#### **Round Table DISCUSSIONS**

*[SEE THE ROUNDTABLE ROOM GUIDE MAP ON LAST PAGE OF PROGRAM]*

**(6-sessions at 30-minutes each)**

#### **1. MDEQ Onsite Wastewater Program and LHD Accreditation**

Facilitator(s): Dave Cotton, Dale Ladouceur & Kristine Rendon (MDEQ)

#### **2. Health Care Reform Update**

Facilitator: Carolyn Miller (General Agency Company)

#### **3. What's New in Liquid Waste Disposal**

Facilitator: Therese Wheaton (Crystal Environmental)

#### **4. Understanding Your Credit Card Processing Statement and What You Are Paying**

Facilitator: Tim Moran (Tim Moran Merchant Services)

#### **5. Portable Restroom Discussion**

Facilitator: Ray Luden, Jr. (PolyJohn Enterprises Corporation)

#### **6. Proper Techniques for Solvent Welding Plastic Joints**

Facilitator: Matt Ray (J.C. Whitlam Manufacturing Company)

#### **7. Succession Planning for the Family Business**

Facilitator(s): J. Kelly Newcomb (Family Business Consultant) & Jason Spangle (Esch's Septic, LLC)

#### **8. Inappropriate Wastes for a Part 117 Hauler to Transport and Why**

Facilitator(s): Greg Merricle & Jeanette M. Noechel (MDEQ)

#### **9. Drop Box vs Distribution Boxes**

Facilitator: Larry Stephens (Stephens Consulting Services, PC)

#### **10. Homeowner Septic System Education: Program Impact and Future Partnerships**

Facilitator(s): Terry Gibb & Bindu Bhakta (MSU)

#### **11. Digital Site Plans for Managing Septic Systems**

Facilitator(s): David Nichol & Ken Curry (Amalgam LLC)

#### **12. Electronic Reporting for Operation & Maintenance**

Facilitator(s): Mike Stephens (SCS Systems, LLC) & Brooke Mueller (Famhost Business Solutions)

#### **13. Inventory Management**

Facilitator: Brian Bannon (The Slate Pages LLC)

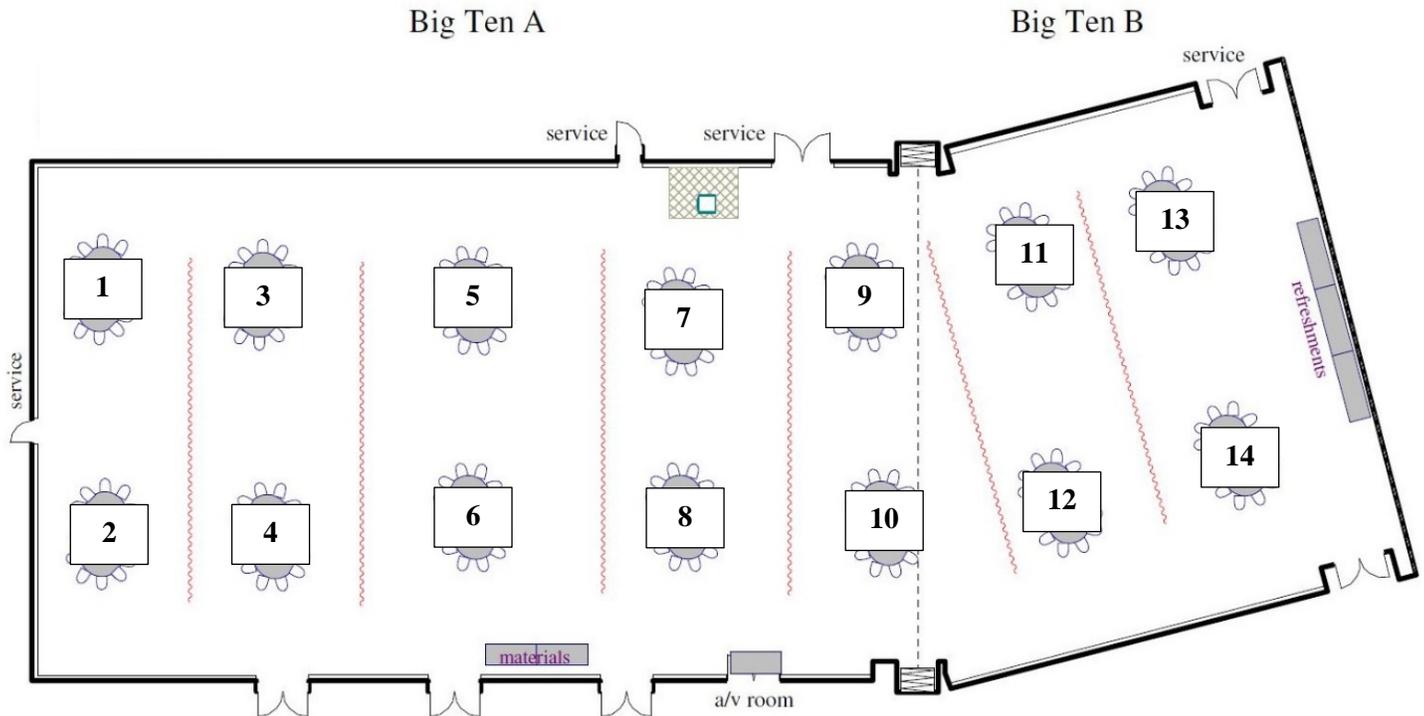
#### **14. How do you bid on Special Events and Contracts? What costs should you consider?**

Facilitator: Lindy Boehme (CPACEX)

CONFERENCE SPONSORS: MDEQ, MEHA, MOWRA, MSTA, MSU, MWEA



## ROUNDTABLE ROOM GUIDE THURSDAY 8:15AM to 11:15AM



### Round Table Discussions (6-sessions at 30-minutes each):

1. MDEQ Onsite Wastewater Program and LHD Accreditation [Dave Cotton, Dale Ladouceur & Kristine Rendon (MDEQ)]
2. Health Care Reform Update - [Carolyn Miller (General Agency Company)]
3. What's New in Liquid Waste Disposal - [Therese Wheaton (Crystal Environmental)]
4. Understanding Your Credit Card Processing Statement and What You Are Paying [Tim Moran (Tim Moran Merchant Services)]
5. Portable Restroom Discussion - [Ray Luden, Jr. (PolyJohn Enterprises Corporation)]
6. Proper Techniques for Solvent Welding Plastic Joints [Matt Ray or TBA (J.C. Whitlam Manufacturing Company)]
7. Succession Planning for the Family Business [J. Kelly Newcomb (Family Business Consultant) & Jason Spangle (Esch's Septic, LLC)]
8. Inappropriate Wastes for a Part 117 Hauler to Transport and Why [Greg Merricle & Jeanette M. Noechel (MDEQ)]
9. Drop Box vs Distribution Boxes – [Larry Stephens (Stephens Consulting Services, PC)]
10. Homeowner Septic System Education: Program Impact and Future Partnerships [Terry Gibb & Bindu Bhakta (MSU)]
11. Digital Site Plans for Managing Septic Systems – [David Nichol & Ken Curry (Amalgam LLC)]
12. Electronic Reporting for Operation & Maintenance [Mike Stephens (SCS Systems, LLC) & Brooke Mueller (Famhost Business Solutions)]
13. Inventory Management – [Brian Bannon (The Slate Pages LLC)]
14. How do you bid on Special Events and Contracts? What costs should you consider? [Lindy Boehme (CPACEX)]

# 2018 Michigan Onsite Wastewater Conference

## "ONSITE WASTEWATER - PROTECTING OUR WATER RESOURCES"



Thursday Course Descriptions  
January 11<sup>th</sup> – Courses run from 8:15AM to 3:00PM

### **MORE ROUNDTABLE INFO:**

#### **1. MDEQ Onsite Wastewater Program and LHD Accreditation**

Facilitator(s): **Dave Cotton, Dale Ladouceur & Kristine Rendon (MDEQ)**

**Bios Above**

#### **2. Health Care Reform Update**

Facilitator: **Carolyn Miller (General Agency Company)**

Healthcare Reform became law in 2010. How it has changed since then and how it will change in the future will be discussed.

**Bio:** Carolyn Miller is a Licensed Insurance Counselor and Chartered Healthcare Consultant. She has over 33 years in the business and works with clients throughout the state on their life and health insurance needs.

#### **3. What's New in Liquid Waste Disposal**

Facilitator: **Therese Wheaton (Crystal Environmental)**

Continue the journey with us to see the work we have done in the last year. We will share with you how others are building small, Medium, and LARGE processing systems and meeting the most stringent governmental guidelines for pennies a gallon.

**Bio Above**

#### **4. Understanding Your Credit Card Processing Statement and What You Are Paying**

Facilitator: **Tim Moran (Tim Moran Merchant Services)**

Tim will discuss credit card statements and give tips how card processing could help your business.

**Bio:** Tim is a business owner from the Muskegon area. He has been in business for 12 years and a Michigan Septic Tank Association member (MSTA) for 7 years. Tim provides both great pricing and service to other MSTAs members.

#### **5. Portable Restroom Discussion**

Facilitator: **Ray Luden, Jr. (PolyJohn Enterprises Corporation)**

Ray promises an inspiring presentation on why you should be proud of the service(s) you provide. Current issues affecting the portable sanitation field will be discussed.

**Bio Above**

#### **6. Proper Techniques for Solvent Welding Plastic Joints**

Facilitator: **Matt Ray (J.C. Whitlam Manufacturing Company)**

The Solvent Welding Process in accordance with ASTM D2855 standard covering: Basic principles of solvent welding; Proper techniques for solvent welding plastic joints; Importance of correct sized applicators, Set and cure times; Solvent welding tips; hot and cold weather; Causes of failed joints; Repairs and Safety precautions.

#### **7. Succession Planning for the Family Business**

Facilitator(s): **J. Kelly Newcomb (Family Business Consultant) & Jason Spangle (Esch's Septic, LLC)**

Family business succession planning is a process for identifying and developing new leaders who can replace leaders when they leave, retire, or pass away. In family businesses, it often aims for continuity of leadership and improved performance, income, and opportunities for family members and key employees. We will discuss the fundamentals of family succession planning along with helpful guidelines for companies just starting the process. Whether you are new to succession planning, or already have a program in place, attendees will find this roundtable useful.

The presentation will bring current and recent experiences into the conversation about, "purchasing the family business" How to tackle financing, crossing your t's and dotting your i's, licensing, and having, "that conversation" with the current owner about your interest in purchasing the business.

**Bio(s) Above**

# 2018 Michigan Onsite Wastewater Conference

## "ONSITE WASTEWATER - PROTECTING OUR WATER RESOURCES"



### Thursday Course Descriptions

January 11<sup>th</sup> – Courses run from 8:15AM to 3:00PM

#### **8. Inappropriate Wastes for a Part 117 Hauler to Transport and Why**

Facilitator(s): **Greg Merricle & Jeanette M. Noechel (MDEQ)**

An open discussion on the types of wastes a Part 117 licensed hauler may be contacted to haul, what regulations may apply to that waste, and whether it is acceptable to haul that waste with or without additional DEQ or other Program approvals.

#### **Bio: Greg Merricle Above**

**Bio:** Jeanette Noechel has over 25 years of experience working for the hazardous waste and liquid industrial waste/liquid industrial by product program in Waste Management and Radiological Protection Division. Her experience covers hazardous waste generation, transportation, treatment, storage and disposal, PEAS inspections, the Waste Data System (WDS) database, universal waste, and a board member and administrator for the Alliance for HazMat Transportation program. Jeanette has a Bachelor's Degree in Biology from Aquinas College in Grand Rapids, and in her spare time she is a feline enthusiast, avid knitter and dedicated World of Warcraft player.

#### **9. Drop Box vs Distribution Boxes**

Facilitator: **Larry Stephens (Stephens Consulting Services, PC)**

Both of these effluent distribution means are used in soil absorption systems today. This discussion will encompass the differences between these devices, and when you should or should not use one or the other. What are the advantages/disadvantages of each device, and what are the risks associated with making the wrong choice?

**Bio:** Larry has been a Professional Engineer in the onsite wastewater field for almost 47 years now. In the last 21 years, Larry has spent almost all of his time and effort on onsite wastewater treatment projects in one form or another. Like others in our industry, he has a passion to continuously share his experience with others, so our industry can continuously improve and be the best at what we do. Without many opportunities for education on onsite wastewater treatment at our colleges

and universities today, it is important that we share our experience with our peers and colleagues.

#### **10. Homeowner Septic System Education: Program Impact and Future Partnerships**

Facilitator(s): **Terry Gibb & Bindu Bhakta (MSU)**

Since 2014, MSUE has conducted annual follow up evaluations of its Septic System Use and Maintenance Workshops to assess any positive new behaviors adopted by workshop participants. The survey data indicate that these programs are having a positive impact on home and business owners. This roundtable will share the three-year follow up data with participants and lead a discussion about expansion of this program into new populations, geographic areas and presentation delivery.

**Bio:** Bindu Bhakta has served as a Natural Resources Educator for Michigan State University Extension (MSUE) based in Oakland County in the Detroit Metropolitan area since November 2005. She develops and delivers public education programs for adults and youth on a variety of topics such as inland lake ecosystem management and the importance of natural shorelines, landscaping for water quality, invasive species management, and local/regional/statewide onsite wastewater education. She serves on the MSU Septic Education team, and maintains the MSUE Septic Education program page:

[http://msue.anr.msu.edu/program/info/septic\\_system\\_education](http://msue.anr.msu.edu/program/info/septic_system_education). She earned a double Bachelor's Degree from University of Michigan in 1995 in Natural Resource Management (School of Natural Resources) and Anthropology-Zoology (School of Literature, Science and Arts). She earned her Master's Degree from Cornell University in the Department of Floriculture and Ornamental Horticulture in 2001.

**Bio:** Terry Gibb joined MSU Extension (MSUE) in 1990 and is currently a Senior Extension Educator in Natural Resources/Government & Public Policy. Her work in the area of natural resources includes water quality, land use, waste management, energy, and septic system education where she has partnered with local health departments to offer Homeowner Septic System and Well Use and Maintenance workshops since 2012.

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Ms. Gibb has both a Bachelor's Degree in Consumer Economics and a Master's Degree in Teaching/Education from Wayne State University. She has a teaching certificate in secondary education and is a certified housing counselor. In 2016, she was awarded the Distinguished Academic Staff Award from MSU.

#### **11. Digital Site Plans for Managing Septic Systems**

Facilitator(s): **David Nichol & Ken Curry (Amalgam LLC)**

Septic system permits and site plans contain a wealth of information that, when used effectively, can help regulators manage septic system inventories for the purpose of reducing risk and improving public health. The problem is that most septic system data is managed for the permit transaction and record keeping, and lacks any good options to accurately represent septic systems on a map. Both of these problems limit how septic system data can be used for assessing risk and improving management tools. To solve these problems, permit data, digital site plans, and enhanced location are integrated in one management system, creating new opportunities to turn data into useful insights that help regulators work more efficiently and understand more about the health of septic system inventories. Learn how modern technologies are being used to assess and monitor at-risk systems, gain new insights about septic system inventories, and provide regulators with effective new management tools. The presentation will discuss key components of an integrated management system and provide a live demonstration that includes mapping septic systems, assessing risk, visualizing septic system data for insights, and understanding the value of location for managing septic system inventories.

**Bio(s): Above**

#### **12. Electronic Reporting for Operation & Maintenance**

Facilitator(s): **Mike Stephens (SCS Systems, LLC) & Brooke Mueller (Famhost Business Solutions)**

Digital recordkeeping and reporting is on the rise. This session will explain the benefits of going paperless as

well as the opportunities for going digital with day-to-day operations, including recordkeeping, compliance reporting, customer communications, routing, and accounting system integration. This session will also give some tips on what to expect and how to prepare for going digital and selecting the right product for your company.

**Bio(s): Above**

#### **13. Inventory Management**

Facilitator: **Brian Bannon (The Slate Pages LLC)**

Brian has developed a cost effective Portable Restroom Inventory Management System. The system consists of a 2.5" x 3" anodized aluminum tag "Slate" that is mounted on the unit and scanned with an iPhone or iPad. Once scanned, it gives you the ability to document cleaning, damage, add photos, and capture a GPS coordinate. It is a onetime price per tag and there is NO MONTHLY SUBSCRIPTION. Inventory Management for the Average Joe!

**Bio Above**

#### **14. How Do You Bid on Special Events and Contracts? What Costs Should You Consider?**

Facilitator: **Lindy Boehme (CPACEX)**

**Bio:** Lindy has been a Sales Manager for over 32 years, focusing the last 29 years in the Portable Sanitation industry. In her current position, she oversees the domestic and international sales for CPACEX.

**BREAK**

**Thursday 1/11/18 - 11:15AM to 11:30AM**

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## Thursday Course Descriptions January 11<sup>th</sup> – Courses run from 8:15AM to 3:00PM

### TRACK I - LINCOLN ROOM

#### “Internet Ideas for Promoting Your Sanitation Business”

*Thursday 1/11/18 - 11:30AM to 12:00PM*

Presented by:

**Dervin Witmer (Owner) [Pump that Septic -  
Subsidiary of Dig-It Excavating]**

Using Google, YouTube and other Social Media to make and keep your business successful.

**Bio:** Dervin Witmer is a native of Southeastern Pennsylvania and has a background in electrical engineering. After graduation, he was the manager of Witmer Motor Service for 10 years, where he gained valuable business experience in running a third-generation family business. During high school, he was an intern for a summer with a local excavating company and his father provided opportunities to run heavy equipment for their various construction projects. Mr. Witmer has always been interested in heavy equipment and when he and his wife relocated to Michigan to work for a custom builder, his goal was to start up an excavating company. With no name recognition or family business to rely on, his opportunity came in the form of new sewer plant that would service five area lakes. For over a year, these sewer hookups were the foundation of Dig-It Excavating, Inc. Abandoning septic tanks were also part of the projects, and so a few months later, a 2000-gallon septic truck was purchased. After the initial spike of work was over, Mr. Witmer turned to unconventional forms of advertising, investing heavily in internet social media to continue to build a successful company in a new area. 12 years later, Dig-It Excavating, Inc. remains a successful and growing company along with the septic division, Pump That Septic, focusing on the septic service part of the company.

### LUNCH – BIG TEN A&B ROOM (PROVIDED)

*Thursday 1/11/18 - 12:00PM to 1:00PM*

#### “Preparing Yourself for Dog Encounters - Dog Bite Prevention Training”

*Thursday 1/11/18 - 1:00PM to 3:00PM (2-hour session)*

Presented by:

**Hector Hernandez [First Class Dog Training]**

As a regular speaker for private and public companies, utility companies, the United States Postal Service, and police departments, Hector demonstrates how “reading the dog’s body language” can teach his audience the difference between a harmless encounter and a potentially dangerous one, as well as how to react to both. His speaking style is entertaining, including humor to keep his audience engaged, yet serious and informative in teaching his techniques. Hector’s main objective is for his audience to think seriously about dog behavior and body language, as well as know how to stay safe in all potential encounters. Due to Hector’s extensive experience, he is extremely knowledgeable on the topics of dog training and dog bite prevention, and has uncanny ability to teach it to his audience. While there are other dog trainers who claim to have proven methods, Hector has been able to successfully prove over and over again that his methods work; not only is he able to truly connect with his audience – he can also truly connect with any dog. Having the ability to understand and teach the body language and behavior between human and dog -- that is what could save dog and human life.

**Bio:** Hector Hernandez is a speaker, dog trainer and author. His dog training and dog bite prevention methods, which have been practiced internationally, were developed and tested by him – in some incidents without wearing protective gear – using dogs labeled “aggressive.” Hector uses his experience of over 20 years in training all types of dogs, including police dogs. Additionally, he has trained all breeds of dogs, whether aggressive or not, which has made him extremely well-rounded in the field of dog bite prevention.

### PRIZE DRAWING IN AUDITORIUM

**[MUST BE PRESENT TO WIN]**

*Thursday 1/11/18 - 3:00PM*

# 2018 Michigan Onsite Wastewater Conference "ONSITE WASTEWATER - PROTECTING OUR WATER RESOURCES"



## Thursday Course Descriptions January 11<sup>th</sup> – Courses run from 8:15AM to 3:00PM

### CONFERENCE ENDS

### TRACK II - AUDITORIUM

#### “MSU Student Research Project”

Thursday 1/11/18 - 11:30AM to 12:00PM

Presented by:

**Erin A. Dreelin, Ph.D. (Associate Director, Center for Water Sciences) and MSU Students**

**Bio:** Dr. Dreelin is the Associate Director for the Center for Water Sciences and a Visiting Assistant Professor in the Department of Fisheries and Wildlife at Michigan State University. She received her PhD in Ecology from the University of Georgia in 2004 where she began work on the development and implementation of innovative storm water management practices and policies to protect aquatic ecosystems. Her work places a strong emphasis on outreach and engagement. She works with diverse stakeholder groups to implement strategies that protect aquatic ecosystems and maintain valuable ecosystem services. As Associate Director of the Center for Water Sciences, she facilitates collaborations among MSU faculty working on water. She also assists with the organization of the MSU Global Water Initiative. MSU established the Global Water Initiative to advance innovative science that addresses the most important water problems facing society around the globe.

### LUNCH – BIG TEN A&B ROOM (PROVIDED)

Thursday 1/11/18 - 12:00PM to 1:00PM

#### “State Wide Sanitary Code Session – Panel”

Thursday 1/11/18 - 1:00PM to 3:00PM (2-hour session)

Presented by:

**MDEQ: Angela Ayers, Deputy Director of Strategy – Executive Office of Governor Rick Snyder and Deputy Director of the Office of the Great Lakes**

As part of the 30-year strategy for Sustaining Michigan Water Heritage the report recommends the adoption of a state wide sanitary code and Governor Snyder is pursuing implementation of this recommendation. Implementation will require legislative action and while there are some issues and aspects that have unanimous support there are also hurdles to getting consensus. We will introduce some of the concepts being explored and hear from different factions involved and affected by a state-wide approach.

**Bio:** Angela Ayers currently serves in the Governor’s Office as the Deputy Director of Strategy, as well as the Deputy Director of the Office of the Great Lakes. She is focused on the Governor’s regional asset management pilot, where she is convening experts to create a statewide system for managing and investing in our transportation and water infrastructure assets. In her dual role, she focuses on environmental policy such as preventing invasive carp from getting into the Great Lakes, doubling our state’s recycling rate, and helping to improve our statewide sanitary code. Prior to joining the Governor’s Office, Angela worked on regional and local government environmental policy for the Southeast Michigan Council of Governments for eight years with a focus on water infrastructure.

#### **REGULATOR AT LARGE: Chuck Cousino, REHS Onsite Wastewater Treatment Systems Coordinator, State or Colorado**

**Bio Above**

#### **MALEHA: Tom Fountain, R.S. Environmental Health Director, Benzie-Leelanau District Health**

Tom Fountain earned a B.S. in Environmental Health from Ferris State College in 1982. He worked for the Saginaw County Department of Public Health and the St. Clair County Health Department for 8 years prior to moving north in 1990. Fountain has been a sanitarian in Benzie County for nearly 28 years, working primarily in the onsite wastewater and drinking water programs. He has been the Environmental Health Director for nearly 6 years with the Benzie-Leelanau District Health Department. Fountain remains to be a fulltime field sanitarian on top of his administrative responsibilities.

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He is a member of the MDEQ Director's Water Well Advisory Committee and a Director on the Michigan Association of Local Environmental Health Administrators.

### **MSTA: Ken Goike - Goike Trucking**

**Bio:** Former Michigan State Representative 33<sup>rd</sup> District, Board Member Michigan Septic Tank Association and Goike Trucking & Excavating, Ray, MI.

### **MOWRA: Larry Stephens, P.E. Stephens Consulting Services, PC**

**Bio Above**

### **MICHIGAN REALTORS®: Brian Westrin, Esq. Public Policy and Legal Affairs Director**

**Bio:** Brian Westrin serves as Michigan Realtors® Director of Public Policy & Legal Affairs. He did his undergraduate work at Louisiana State University in Baton Rouge and earned his law degree at Michigan State University School of Law, graduating in 2004. His role at Michigan Realtors® encompasses a concentration in Fair Housing Law and Education, RESPA Compliance and Education, policing Unlicensed Real Estate Practice, Mortgage Fraud, and Publications and is an active lobbyist at the Capitol in Lansing. Brian also facilitates meetings of the Realtors® Legal Action Committee and handles all requests made for legal action fund assistance.

Presented by:

**Jon Crippen (Safety Specialist) [Michigan Center for Truck Safety]**

**Bio: Above**

**PRIZE DRAWING IN AUDITORIUM  
[MUST BE PRESENT TO WIN]  
Thursday 1/11/18 - 3:00PM  
CONFERENCE ENDS**

CONFERENCE SPONSORS: MDEQ, MEHA,  
MOWRA, MSTA, MSU, MWEA



**PRIZE DRAWING IN AUDITORIUM  
[MUST BE PRESENT TO WIN]  
Thursday 1/11/18 - 3:00PM  
CONFERENCE ENDS**

## **OUTSIDE – FRONT LOT**

**“Mobile Truck Simulator”**

**Thursday 1/11/18 – 11:30AM to 12:00PM & 1:00PM to 3:00PM**

*\* Note there is not CSE Credit for this Demo*

# 2018 Michigan Onsite Wastewater Conference

## "ONSITE WASTEWATER - PROTECTING OUR WATER RESOURCES"



### Michigan Onsite Wastewater Conference Speaker Contact Information

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# 2018 Michigan Onsite Wastewater Conference

## "ONSITE WASTEWATER - PROTECTING OUR WATER RESOURCES"



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# 2018 Michigan Onsite Wastewater Conference

## "ONSITE WASTEWATER - PROTECTING OUR WATER RESOURCES"



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# 2018 Michigan Onsite Wastewater Conference "ONSITE WASTEWATER - PROTECTING OUR WATER RESOURCES"



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**SAVE THE DATES!**  
**2019 Michigan Onsite Wastewater  
Conference  
January 8-10, 2019**

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