

Tristian Bounds, P.E. - Keynote Speaker  
**From Pits to Potable: A look at the Evolution of Onsite**

Civilization has seen major advancements in the relatively recent past in the ways we collect, treat, and operate wastewater systems. We continue to recognize the importance of utilizing all our natural resources to their fullest and are even changing the words we use when discussing these natural resources. With an understanding of our past and a clear vision of the future, we will continue to make advancements toward smarter technologies, better methods, and more responsible management of our water resources. This presentation will provide a glimpse into the past and vision into the future of the onsite wastewater world. Tristian Bounds, P.E., is the Lead Research and Development Engineer at Orenco Systems, Inc., a wastewater equipment manufacturing firm based in Sutherlin, Oregon. In this role, he develops products that provide sustainable wastewater treatment and reuse solutions for a growing world. Innovative engineering has been a passion of Tristian's for 20 years.

Kelly Galloway, P.E. - Keynote Speaker  
**SMART SEPTICS – How AI, advanced sensors and the "Internet of Things" will change the decentralized wastewater industry**

We now live in a world where consumers are demanding protection from adverse outcomes and are managing more aspects of their lives and household infrastructure from their smartphones. Advanced septic monitoring and management is one of the last remaining frontiers of the smart home. It will enable a transition from the status quo of "out of sight and out of mind", to onsite systems which are capable of providing ongoing feedback on their performance. Kelly Galloway, P.E. is a civil engineer with 28 years experience, 23 years with her own firm, Engineering Technologies Canada Ltd. (ETC). ETC is based in Prince Edward Island, but provides specialized consulting engineering services to clients throughout Atlantic Canada and beyond. Kelly has focused her career on small community, commercial, and residential sewage and septic systems, including soil evaluations, and planning studies. She collaborates regularly with top executives at major industry OEMs and other leaders from government, academia, and industry organizations.

Mobile Truck Simulator

Back by popular demand, the Michigan Center for Truck Safety will be onsite with the Mobile Truck Simulator again this year. 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.



**\*\* NEW WORKSHOP THIS YEAR \*\***  
**Onsite WW Treatment System Design**  
 Tuesday 8:30am - 3:30pm

2019 Onsite WW Conference will offer an all-day workshop on treatment system design. This workshop will cover many of the important factors that are important for those involved in the design, permitting and construction of onsite systems. It will be especially helpful for regulators, designers, contractors and even system maintenance providers. Topics on the agenda include: water movement through soils, septic tank construction, basic pumps and controls, the use of flow equalization, treatment of high strength WW, nutrient removal and disinfection, and more. For more information, go to [www.meha.net](http://www.meha.net), [www.mowra.org](http://www.mowra.org), or [www.msta.biz](http://www.msta.biz). **COST:** You must pay the cost of the conference plus an additional \$25 to cover the cost of materials. Please bring your laptop. Certificates of Completion will be provided to those completing the workshop. **To register:** Check the appropriate box on the registration page of this flyer.

**Hotel Information**

Reserve your room(s) prior to 12-11-18.  
 Kellogg Center 800-875-5090 or 517-432-4000.  
 Group Code: 1901ONSITE

**FOR MORE INFORMATION ON TOPICS AND SPEAKERS, GO TO:**  
[www.meha.net](http://www.meha.net) or [www.msta.biz](http://www.msta.biz) or contact  
 Joel Kwiatkowski at 989-895-4107 or  
[KwiatkowskiJ@baycounty.net](mailto:KwiatkowskiJ@baycounty.net)

**BOOTH INFORMATION CONTACT**  
 Dan Milan 800-756-4526

**SPECIAL ANNOUNCEMENT**

THE DEQ STAFF WILL BE MEETING WITH INDIVIDUAL HAULERS IN THE VISTA ROOM ON TUESDAY 1-8-19 TO DISCUSS ANY ISSUES/ CONCERNS THEY ARE FACING. THESE WILL BE 30 MINUTE BLOCKS AND SIGN-UP IS REQUIRED AT THE REGISTRATION DESK. SESSIONS ARE ELIBIGLE FOR CSE CREDITS.

**17.5 continuing septage education (CSE) hours are being accredited through MDEQ for the conference this year.**

REIMBURSTMENT MAY BE AVAILABLE FOR MOST MICHIGAN LICENSED SEPTAGE HAULERS (ONE PER LICENSED FIRM) THROUGH THE MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY "CONTINUING SEPTAGE EDUCATION REIMBURSEMENT REQUEST" EQP5918. MORE INFORMATION IS AVAILABLE ON THE WEB AT: [www.michigan.gov/deqseptage](http://www.michigan.gov/deqseptage).

**Fill out this Registration Form if you want to pay by check OR Email [executiveofficer.msta.biz@gmail.com](mailto:executiveofficer.msta.biz@gmail.com) for a link to register online and pay by credit card.**

Name: \_\_\_\_\_

Agency/Business: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State/Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Email (required for email confirmation): \_\_\_\_\_

\_\_\_\_\_ Local Health Department \_\_\_\_\_ State Employee \_\_\_\_\_ Sales/Manufacturer  
 \_\_\_\_\_ System Designer/Inspector \_\_\_\_\_ Educator \_\_\_\_\_ Septic Tank Pumper  
 \_\_\_\_\_ Portables \_\_\_\_\_ Portables / Septic \_\_\_\_\_ Other: \_\_\_\_\_

Conference registration fee includes lunch and break snacks. Tuesday registration also includes social hour.

**Check Days Attending - REQUIRED**

- |  |          |  |                                    |
|--|----------|--|------------------------------------|
| <input type="checkbox"/> Full Conference         | \$150.00 | <input type="checkbox"/> After 12-14-18                              | Add \$15 Late Fee                  |
| <input type="checkbox"/> Tuesday Only (1-8-19)   | \$65.00  | <input type="checkbox"/> After 12-21-18                              | Add \$25 Late Fee                  |
| <input type="checkbox"/> Wednesday Only (1-9-19) | \$65.00  |  |                                    |
| <input type="checkbox"/> Thursday Only (1-10-19) | \$65.00  | <input type="checkbox"/> Onsite WW Treatment System Design Workshop. | Add \$25 (Tuesday 8:30am - 3:30pm) |

**SECTION SUBTOTAL** \$ \_\_\_\_\_

**CONTINUING SEPTAGE EDUCATION PROGRAM**

<u>Check Days for CSE Tracking—REQUIRED</u>	<u>MSTA Members</u>	<u>Non –MSTA Members</u>
<input type="checkbox"/> Tuesday CSE Tracking – 6.0 Hours	No Charge	\$100.00
<input type="checkbox"/> Wednesday CSE Tracking – 6.0 Hours	No Charge	\$100.00
<input type="checkbox"/> Thursday CSE Tracking – 5.5 Hours	No Charge	\$100.00
<input type="checkbox"/> After 12-14-18 Add	\$25.00 Late Fee	\$25.00 Late Fee
<input type="checkbox"/> NO CSE TRACKING REQUESTED		

**SECTION SUBTOTAL** \$ \_\_\_\_\_

**MSTA BANQUET TICKETS**

<u>Check Appropriate Box—REQUIRED</u>		
<input type="checkbox"/> MSTA Member Tickets at \$10.00 Each—Limit 2 per Paid Membership	\$ _____	
<input type="checkbox"/> Banquet Tickets at \$30.00 Each—Additional Member or Non-members	\$ _____	
<input type="checkbox"/> NO BANQUET TICKETS NEEDED		

**SECTION SUBTOTAL** \$ \_\_\_\_\_

**TOTAL AMOUNT ENCLOSED** \$ \_\_\_\_\_

**NO REFUNDS AFTER DECEMBER 14, 2018 REGISTRATION DEADLINE**

**Make check PAYABLE to: MICHIGAN WASTEWATER CONFERENCE**

**And MAIL check and registration form to—MOWC**  
 1181 LaCosta Drive  
 DeWitt, MI 48820

Please contact Karlyn Wickham with any registration &/or continuing education questions at [executiveofficer.msta.biz@gmail.com](mailto:executiveofficer.msta.biz@gmail.com) or 989-808-8648. Printable form posted at [www.msta.biz](http://www.msta.biz)..

**68<sup>th</sup> MICHIGAN ONSITE  
WASTEWATER CONFERENCE  
& EXHIBITS PRESENTS**

**“Wastewater Treatment—  
Evolving with Technology”**

JANUARY 8-10, 2019

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



**REGISTRATION REQUIRED**

**Conference and Continuing Education  
Registration required by December 14, 2018**

**17.5 Continuing Septage Education (CSE)  
Hours Offered**

**Hotel Reservation by December 11, 2018**

Conference Standard Room Rate \$94/night + Tax  
Call Kellogg Center 800-875-5090 or 517-432-4000

**Group Code 1901ONSITE**

**facebook**

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



MSTA (MOWC)  
1181 LaCosta Drive  
DeWitt, MI 48820

«First\_Name» «Last\_Name»  
«Company»  
«Address»  
«Address2»  
«City», «State» «Zip»

**Tuesday January 8, 2019  
CONCURRENT SESSIONS  
8:30AM TO 3:30PM**

**TRACK 1: LINCOLN ROOM**

- Onsite WW and Septage Program Overview
- Local Health Department Resources for Training New Staff
- MI Criteria for Subsurface Sewage Disposal
- Onsite WW Subdivision & Condo Development Rule Review and Plan Review Exercise
- Local Health Department/DEQ Case Study

**TRACK 2: AUDITORIUM**

- Immunizations for Wastewater Professionals
- CDL Drug Testing and Recommended Training
- Proper Truck Inspections
- Pumper Truck Inspection from a Haulers Perspective
- Back to Basics for Sanitarians, Installers, Pumpers
- Regulations, Insurance, Business Plans for Haulers/Pumpers/Portable Businesses

**TRACK 3: Room 104 A&B**

Onsite Wastewater Treatment System Design  
Workshop\*

\*Additional \$25 fee applies to pay for cost of materials.

**OUTSIDE:**

- Mobile Truck Simulator

**VISTA ROOM:**

- MDEQ One-On-One 30-minute segments, sign up sheet at registration desk

**6.0 CSE hours approved by MDEQ for Tuesday.**

**EXHIBITS OPEN 3:00PM TO 5:30PM  
CASH GIVE-AWAYS—LIGHT BUFFET**

**Wednesday January 9, 2019**

**GENERAL SESSIONS 8:30AM to 11:15AM**

- From Pits to Portables: A Look at the Evolution of Onsite, *presented by Tristian Bounds, Orenco Systems*
- How AI, Advanced Sensors & the “Internet of things” will change the Decentralized WW Industry, *presented by Kelly Galloway, Engineering Technologies Canada Ltd.*

**CONCURRENT SESSIONS 1:00PM to 3:30PM**

**TRACK 1: LINCOLN ROOM**

- How to Set a Septic Tank—Proper Installation
- Site Preparation and Construction Panel Discussion

**TRACK 2: AUDITORIUM**

- Pumper Stories
- MDEQ Question & Answer Session

**TRACK 3: Room 104 A&B**

- New Tools for Monitoring Onsite System Performance
- Remote Telemetry Panels

**OUTSIDE:**

- Mobile Truck Simulator

ASSOCIATION MEETINGS 3:30PM to 5:00PM

- MOWRA— Lincoln Room
- MSTA—Auditorium—1.5 CSE Hours

**6.0 CSE hours approved by MDEQ for Wednesday**

**EXHIBITS OPEN 8:00AM TO 3:00PM**

**SOCIAL HOUR 5:30PM TO 6:30PM  
MSTA BANQUET 6:30PM**

**Thursday January 10, 2019**

**ROUND TABLE DISCUSSIONS  
8:15AM to 11:15AM**

1. Health Care Reform Update
2. Bidding Proposals for Septic System Installs
3. Immunizations for WW Professionals
4. Processing Liquid Waste in the City & Country
5. Selling your Septic Business
6. Land Application Septage Management Injection
7. Regulatory testing of Food Waste at your Land Application Site
8. Sustaining and Managing Growth
9. SepticSmart: Educate your Clients / Homeowners
10. New Tools for Monitoring Onsite System performance
11. Meth Awareness: Identifying the Hazards
12. Remote Monitoring and Mgmt of Onsite Systems

**CONCURRENT SESSIONS 11:15AM to 3:00PM**

**TRACK 1: LINCOLN ROOM**

- SepticSmart: Educate your Clients/Homeowners
- SepticSmart: Panel Discussion

**TRACK 2:**

- Land Application Septage Management/Injection
- Selling your Septic Business: Choosing the Right Path for You & Your Septic Business
- Statewide Sanitary Code

**OUTSIDE:**

- Mobile Truck Simulator

**5.5 CSE hours approved by MDEQ for Thursday**

**3:00PM - Prize drawing in Auditorium  
MUST BE PRESENT TO WIN**

\*\*Session topics and speakers subject to change\*\*