Pennsylvania Decentralized Wastewater Conference and Trade Show
January 28-29, 2019

Red Lion Hotel
4751 Lindle Road, Harrisburg PA 17111

Brought to you by:

REGISTER ON-LINE at www.PSMA.net
JOIN FELLOW PROFESSIONALS!
Don’t miss the 2019 Pennsylvania Decentralized Wastewater Conference and Trade Show! PSMA is pleased to announce that we’ll be holding the conference in a central location for members: Red Lion Hotel, 4751 Lindle Road, Harrisburg, PA 17111. The conference is being held January 28-29, 2019. This statewide event is the premier event in Pennsylvania for the septage industry and provides an excellent opportunity to learn from experts in the industry, network with your colleagues, and re-energize for the new year.

LODGING INFORMATION
Red Lion Hotel
4751 Lindle Road
Harrisburg, PA 17111
(717) 939-7841
www.RedLion.com/Harrisburg

Room Block Code: PA Septage Management Association
Rate: $98 per night plus tax for single or double occupancy
Deadline to receive group room rate: January 12, 2019

CANCELLATIONS & REFUNDS
Cancellations must be made, in writing, by January 20, 2019 to receive a refund, less a $50 administrative processing fee. The cost of extra meal tickets is non-refundable. Cancellations will be confirmed upon receipt. No refunds will be available after January 20th. PSMA cannot guarantee the availability of reception or meal tickets to walk-in registrants. Correct payment must accompany each registration. Registrations that are incomplete will be returned unprocessed.

REGISTER TODAY BY PAPER OR ONLINE
To register for the PSMA conference, complete & return the enclosed registration form. Or, you can quickly register & pay by credit card online by visiting the PSMA website, www.PSMA.net. Registrations by mail can be accepted up to January 20th. The registration deadline via the website is January 24th.

CONTINUING EDUCATION
Continuing education credits are available for PSMA SR1 Inspectors. One PSMA SR1 continuing education credit is awarded for each break-out session attended. A maximum of 8 PSMA SR1 credits can be earned from conference breakout sessions.

PSMA has applied to PA DEP for approval of up to 4 SEO continuing education credits for conference breakout session attendance. One SEO credit is awarded per half day attended.

PSMA is also concurrently offering the DEP-approved 12 SEO credit training course Installation of Onsite Wastewater Treatment Systems during the conference at no additional cost. Pre-registration is required for the training courses & space is limited to the first 40 registrants. Check www.PSMA.net to see if the course has sold-out.
### SCHEDULE OF EVENTS  Subject to Change

#### Sunday, January 27

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:00 p.m. - 6:00 p.m.</td>
<td>Exhibitor Move-In</td>
</tr>
<tr>
<td>6:00 p.m. - 8:30 p.m.</td>
<td>PSMA Board of Directors Dinner Meeting</td>
</tr>
</tbody>
</table>

#### Monday, January 28

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 a.m.</td>
<td>Registration Opens</td>
</tr>
<tr>
<td>7:30 a.m.</td>
<td>Continental Breakfast in Exhibit Hall</td>
</tr>
<tr>
<td><strong>7:30 a.m. - 7:00 p.m.</strong></td>
<td><strong>Exhibit Hall Open</strong></td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td>Opening Comments</td>
</tr>
<tr>
<td>9:00 a.m.</td>
<td>Keynote Address</td>
</tr>
<tr>
<td>9:00 a.m. - 5:00 p.m.</td>
<td>Installation of Onsite Systems Training Course</td>
</tr>
<tr>
<td>9:45 a.m.</td>
<td>Morning Break in Exhibit Hall / Networking</td>
</tr>
<tr>
<td>10:15 a.m.</td>
<td>Educational Breakout Sessions</td>
</tr>
<tr>
<td>11:30 a.m.</td>
<td>Lunch in Exhibit Hall</td>
</tr>
<tr>
<td>12:45 p.m.</td>
<td>Educational Breakout Sessions</td>
</tr>
<tr>
<td>2:00 p.m.</td>
<td>Afternoon Break in Exhibit Hall / Networking</td>
</tr>
<tr>
<td>2:30 p.m.</td>
<td>Educational Breakout Sessions</td>
</tr>
<tr>
<td>4:00 p.m.</td>
<td>PSMA Regional Meetings</td>
</tr>
<tr>
<td>5:00 p.m. - 7:00 p.m.</td>
<td>Happy Hour &amp; Buffet Dinner Reception</td>
</tr>
</tbody>
</table>

#### Tuesday, January 29

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>7:30 a.m.</td>
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</tr>
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</tr>
<tr>
<td>8:30 a.m.</td>
<td>Educational Breakout Sessions</td>
</tr>
<tr>
<td>8:30 a.m. - 4:00 p.m.</td>
<td>Installation of Onsite Systems Course (cont.)</td>
</tr>
<tr>
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</tr>
<tr>
<td>4:00 p.m.</td>
<td>Conference Closes</td>
</tr>
</tbody>
</table>
MONDAY, JANUARY 28, 2019

8:30am - 9:00am Opening Comments & Conference Announcements
Joseph Garner, PSMA President

9:00am - 9:45am Keynote Address: Developing a Septic System Owners Guide
Dr. Sara Heger, University of Minnesota Onsite Sewage Treatment Program

The opening keynote address highlights an online vehicle for wastewater professionals to transform rural wastewater management by developing a customizable septic system owners guide. The primary deliverable of the underlying project is a web-interface (H2OandM.com) that allows an individual to produce an expert-driven and locally customized manual (electronic or hard copy) for everything from a single-family home, to a commercial property to a cluster system serving 50+ homes. This tool will provide users with fundamental information about the operation and management of various wastewater management systems. A consultant, engineer, septic professional, facilitator, or even an educated community member will be able to use this tool to develop a management plan for either a new or existing OWTS. The developer will be able to assemble a professionally designed guide by selecting situation-specific boilerplate language and graphics and inserting customized content to integrate system-specific permit and ordinance requirements.

9:00am - 5:00pm Installation of Onsite Wastewater Systems Training Course (#12-0001)
Bruce Fox, Allstate Septic Systems; Roger Lehmann, All County & Associates

The PASEO/PSMA Installation of Onlot Wastewater Systems training course (#12-0001) is being offered concurrently with the Annual Conference activities on Monday & Tuesday. If you opt to register for this training course, you will attend the two-day course instead of the various conference breakout sessions. However, training course participants can take part in all of the conference breaks, meals, and networking opportunities. This course will educate installers in proper design and installation of septic systems so that systems operate effectively upon startup and are accessible for regular service over the life of the system. Topics covered will include: Industry Integrity, Installation Safety, Soils and Site Evaluation, Materials and Techniques, Installation Planning, Distribution Pressure and Gravity Systems, Tanks, Installation Piping, and Pumps & Controls. Successful completion will result in the individual being listed on DEP’s website as having completed the installation course. The course has been approved for 12 SEO continuing education credits. This course is open to any interested trainee. There is no extra fee. The course is entirely classroom-based. There is no test. Space is limited to 40 participants.

10:15am - 11:30am Educational Breakout Sessions

Choice A:
DOT Updates for Pumper-Haulers
Kevin Stewart, Pennsylvania Motor Truck Association

Representatives from the PA Motor Truck Association will present several transportation and driver-related topics that affect your pumper-hauler business.

Choice B:
Compaction: The Enemy of System Longevity
Dr. Sara Heger, University of Minnesota Onsite Sewage Treatment Program

Humans along with all our activities cause widespread soil compaction. Compaction constrains oxygen (O2) movement in the soil and shifts soil toward anaerobic conditions. Less O2 diffusion into the soil leads to a chemically reducing soil environment. Compaction leads to smaller pore spaces and slower infiltration rates. This presentation will discuss the causes of compaction including wet soils, material handling and the weight of vehicles/equipment, pedestrians, and animals. It will then focus on avoidance methods and potential solutions for sites have been compacted.
12:45pm - 2:00pm  Educational Breakout Sessions

Choice A: Best Practices for Your Septic Business
Bruce Fox, Allstate Septic Systems

The way you manage your septic inspection business can make or break its long-term success. Whether you are sole proprietor, part of a small team, or running a large inspection division, there are essential best practices that should be integrated into your operations. This session will touch on key aspects of running and growing a septic inspection business such as record keeping practices, how to price your services, implementing safety programs, and maintaining high business ethics.

Choice B: Inspecting & Troubleshooting Septic & Pump Tanks
Dr. Sara Heger, University of Minnesota Onsite Sewage Treatment Program

The presentation will discuss methods and challenges inspecting septic and pump tanks. It will cover common problems an inspector may need to identify and troubleshoot including locating tanks, roots, leakage, and corrosion. It will also discuss how septic systems of the 21st century often see additions of many types of wastewater that did not exist 20 or 30 years ago such as antibacterial soaps, pharmaceuticals and water treatment devices.

2:30pm - 3:45pm  Educational Breakout Sessions

Choice A: Inspection Report Writing
Ray Erb, Thomas H. Erb & Sons

Writing an inspection report can be a challenging process. Face it, report writing can provide an excellent opportunity to look foolish and to get sued. We will examine how to minimize the pain and maximize the gain. We will examine our goals and some ways that will help us succeed in writing a report that will satisfy the client yet also help us stay out of trouble.”

Choice B: Evaluation of Adult Foster Care & Assisted Living Facilities
Dr. Sara Heger, University of Minnesota Onsite Sewage Treatment Program

Adult foster homes provide assisted-living services—including nursing and 24/7 care—for individuals requiring special medical and behavioral needs. Wastewater from these homes and the corresponding effects on conventional onsite sewage treatment systems, likely differs from average residential sources but is not fully understood. The University of Minnesota Onsite Sewage Treatment Program (OSTP) conducted a short-term study in 2013 of six foster homes and one non-foster system (for comparison). This presentation summarizes the project findings and recommends septic system management practices that may help prevent future problems.

TUESDAY, JANUARY 29, 2018

8:30am - 4:00pm  Installation of Onsite Wastewater Systems Training Course (continued)

8:30am - 9:45am  Educational Breakout Sessions

Choice A: Septic Detective
Jeff Rachlin, OnSite Management Inc.

Do you want to be a septic sleuth? Participants of this interactive breakout session will have the chance to put their inspector skills to the test. Real-world issues that inspectors face in the field will be presented to attendees who in turn will try to recognize the problem, identify the cause, and develop a potential solution. New and seasoned inspectors will benefit from the discussion of how best to discover concerns with onsite systems.
**Choice B:**  
**Evaluating Impacts of Chloride from Water Softening on the Environment**  
*Dr. Sara Heger, University of Minnesota Onsite Sewage Treatment Program*

This presentation will provide an overview of a new research project at the UMN. When water is softened to remove hardness, salt is used to regenerate the softener releasing chloride to septic systems and wastewater treatment plants (WWTPs). Monitoring to date has shown numerous WWTPs with discharge concentrations greater than limits for protecting aquatic life. In rural areas, we may have similar problems, given the prevalence of private septic systems near lakes and streams utilizing water softeners. By better understanding softening salt use, we will determine potential methods required to make significant progress in the reduction of this salt use.

**10:15am - 11:00am**  
**Educational Breakout Sessions**

**Choice A:**  
**Defending a Septic Inspection Report**  
*Rob Bowie, Bux-Mont Inspections*

 Occasionally individuals or entities may be critical of your septic system inspection report. You can run into concerns expressed by home buyers, home sellers, home inspectors, real estate agents, P.E.s, SEOs, and even regulatory bodies. Some of the more common criticisms that inspectors hear will be discussed during this session. Together, attendees will craft responses that can be used when they return to the field. This session aims to help arm inspectors with well thought-out arguments and valid counterpoints to criticisms of their reports.

**Choice B:**  
**Inspecting & Troubleshooting Soil Treatment Systems**  
*Dr. Sara Heger, University of Minnesota Onsite Sewage Treatment Program*

This session will cover the process of evaluating and inspecting soil treatment systems including trenches, low-pressure pipe systems, mounds and sand filters. It will include a discussion of various distribution methods and the relating development of a biomat. Problems associated with hydraulic and organic overload will be highlighted.

**12:45pm - 2:00pm**  
**Educational Breakout Sessions**

**Choice A:**  
**Inspector Roundtable**  
*Panel of PSMA Inspector Certification Trainers: Frank Parker, Rachel Evangelista & Tom Trimmer*

The panel of PSMA trainers will discuss how inspectors can identify common issues with onsite wastewater systems. Both newly certified and veteran inspectors will benefit by exploring real-life inspection issues with the panelists. Learn how they resolved some of the tough cases…come and share your experiences & bring your questions.

**Choice B:**  
**Challenging Wastewater Streams**  
*Dr. Sara Heger, University of Minnesota Onsite Sewage Treatment Program*

More septic systems are being negatively impacted by the use and disposal of varying chemicals, cleaners, medicines and anti-bacterial products. This presentation will cover how to identify this problem and troubleshoot the system. In addition, chemicals of emerging concern that are showing up in our lakes, rivers and streams, groundwater and even in tap water will be discussed. This is obviously concerning for our health but how do these chemicals affect our wastewater treatment systems? This presentation will discuss what they are, how they can potentially be removed and what we can do as an industry to limit their impact.
2:30pm - 3:45pm  **Educational Breakout Sessions**

**Choice A:**  
**Panels & Other Drip Components**  
*Bryan Allen, American Manufacturing Company*

This session will focus on the newest onsite wastewater system control panel design, operation, management, data collection and remote monitoring. We will discuss using controls to manage flow equalization, time dosing, demand dosing and recirculation and how to integrate HMI’s, cellular units, VFD’s and radio communications where applicable. Sample panels will be on hand for audience interaction.

**Choice B:**  
**Aerobic or Anaerobic – Which One is Better?**  
*Dr. Sara Heger, University of Minnesota Onsite Sewage Treatment Program*

Within most septic systems, both anaerobic and aerobic processes are used to treat the wastewater. This presentation will describe each oxygen state, discuss where each method is dominate and present a methodology to evaluate systems to determine if both processes are working properly.

*Register & pay online at www.PSMA.net*
Save the Date!

PSMA/NOF
Annual Spring Training

March 26-27, 2019
Crowne Plaza Reading Hotel
1741 Papermill Rd., Reading, PA 19610

Training Courses Currently Planned:

• PSMA/NOF 101 Basic Inspector Certification
• PSMA/NOF 102 Advanced Inspector Certification
• PSMA/NOF SR1 Standards Refresher
• NEW! PSMA/NOF 103 Experienced Inspector Certification
Please note: Paper registrations must be received by January 20, 2019. Online registration (www.PSMA.net) is open until January 24, 2019. The cancellation deadline is January 20, 2019. All cancellations must be made in writing and receipt will be acknowledged. A $50 administrative processing fee will be charged per cancellation. The cost of extra meal tickets is non-refundable. PSMA cannot guarantee availability of reception or meal tickets to walk-in registrants. Please complete one registration per attendee.

Attendee Name: _________________________________________________________________________________
Business Name: _________________________________________________________________________________
Street Address: _________________________________________________________________________________
City: State: Zip Code: __________________________________________________________________________
Phone: ____________________________________________ Email: __________________________________

REMEMBER: Be sure to select your desired education sessions on the reverse side of this form.

Please mark which association(s) your company is a member of (check all that may apply):

☐ PSMA    ☐ NAWT    ☐ PAPSS    ☐ POWRA    ☐ PASEO

FEES:

Full Registration Prices: (includes Monday reception) ☐ $199 Member  ☐ $249 Non-Member $________
*Please note that the member pricing is for any employee of a member company with any of the participating associations (PSMA, NAWT, PAPSS, POWRA, PASEO). Membership will be verified. Use this registration price if signing-up for the full conference or the Installation of Onsite Systems Course.

Monday Only Registration Prices: (includes Monday reception) ☐ $125 Member  ☐ $150 Non-Member $________
*Please note that the member pricing is for any employee of a member company with any of the participating associations (PSMA, NAWT, PAPSS, POWRA, PASEO). Membership will be verified.

Tuesday Only Registration Prices: ☐ $100 Member  ☐ $125 Non-Member $________
*Please note that the member pricing is for any employee of a member company with any of the participating associations (PSMA, NAWT, PAPSS, POWRA, PASEO). Membership will be verified.

Additional Monday Dinner Reception Ticket for Your Guests: _______ @ $50 per ticket $________
*One reception ticket is included in the registration fee.

All-Inclusive Meal Ticket for Your Guests: _______ @ $145 per ticket $________
(Includes breakfast both days, lunch both days and Monday dinner reception)
Spouse/Guest Name: ________________________________________________________________

TOTAL ENCLOSED $________

Method of Payment:

☐ Check Enclosed (make checks payable to PSMA)

Credit Card:  ☐ Visa  ☐ MasterCard  ☐ Discover  ☐ AMEX

Credit Card Number: ___________________________ Exp. Date: _______ Security Code: _______

Name on Card: ___________________________ Signature: ___________________________

Please submit completed registration, along with full payment to:
PSMA, Attn: Conference, P.O. Box 144, Bethlehem, PA 18016 or REGISTER ONLINE at www.PSMA.net
Please indicate which educational sessions/course you plan to attend by checking the box next to the desired title in each time slot. You can change your mind when at the conference. However, you must be pre-registered to attend the Installation Training Course - we cannot accomodate training course walk-ins. Also, kindly indicate whether you plan to stay for Monday night’s reception.

### Conference Sessions

#### MONDAY

<table>
<thead>
<tr>
<th>Time</th>
<th>Choice A</th>
<th>Choice B</th>
<th>Choice C</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30am-9:00am</td>
<td>Opening Comments &amp; Announcements</td>
<td></td>
<td>Installation of Onsite Wastewater Treatment Systems Course (#12-0001) - Day 1 (9:00am-5:00pm)</td>
</tr>
<tr>
<td>9:00am-9:45am</td>
<td>Keynote Address: Developing a Septic System Owners Guide</td>
<td>Compaction: The Enemy of System Longevity</td>
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</tr>
<tr>
<td>10:15am-11:30am</td>
<td>DOT Updates for Pumpers &amp; Haulers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:45pm-2:00pm</td>
<td>Best Practices for Your Septic Business</td>
<td>Inspecting &amp; Troubleshooting Septic &amp; Pump Tanks</td>
<td></td>
</tr>
<tr>
<td>2:30pm-3:45pm</td>
<td>Inspection Report Writing</td>
<td>Evaluation of Adult Foster Care &amp; Assisted Living Facilities</td>
<td></td>
</tr>
<tr>
<td>5:00pm-7:00pm</td>
<td>Yes, I’m Staying for the Happy Hour Networking &amp; Buffet Dinner Reception</td>
<td></td>
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</table>

#### TUESDAY

<table>
<thead>
<tr>
<th>Time</th>
<th>Choice A</th>
<th>Choice B</th>
<th>Choice C</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30am-9:45am</td>
<td>Septic Detective</td>
<td>Evaluating Impacts of Chloride from Water Softening on the Enviro.</td>
<td>Installation of Onsite Wastewater Systems Course - Day 2 (8:30am-4:00pm)</td>
</tr>
<tr>
<td>10:15am-11:30am</td>
<td>Defending a Septic Inspection Report</td>
<td>Inspecting &amp; Troubleshooting Soil Treatment Systems</td>
<td></td>
</tr>
<tr>
<td>12:45pm-2:00pm</td>
<td>Inspector Roundtable</td>
<td>Challenging Wastewater Streams</td>
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<td>Panels &amp; Other Drip Components</td>
<td>Aerobic or Anaerobic – Which One is Better?</td>
<td></td>
</tr>
</tbody>
</table>

Did you know that you can register & pay online at www.PSMA.net?
APPLICATION FOR
PSMA MEMBERSHIP

Please complete the following information:

Company Name ____________________________________________

Primary Contact __________________________________________

Title _____________________________________________________

Address __________________________________________________

City ______________________________ State ______ Zip/Postal Code ______

County ______________________________ Work Phone ________________

Fax ______________________________ Alternate Phone ______________

E-mail ______________________________ Website ______________________

Please check all that best describe your company’s relationship to the Onsite Waste Treatment Industry:

 Pumping
 Installing
 Repair/Maintenance

 Inspecting
 Distributor/Manufacturer

Payment Information

 Regular Membership Fee $ _________ (specify amount)
 Associate Membership Fee** $ 250

Please note: Businesses performing inspections, installations and/or pumping and/or have someone in the company that is certified are considered a “regular member” of PSMA and should remit dues as such.

<table>
<thead>
<tr>
<th>Regular Member</th>
<th>Annual Gross Revenue</th>
<th>Annual Dues</th>
<th>Joining July 1 – Sept 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group A</td>
<td>≤ $250,000</td>
<td>$350</td>
<td>$245</td>
</tr>
<tr>
<td>Group B</td>
<td>$251,000 - $500,000</td>
<td>$400</td>
<td>$280</td>
</tr>
<tr>
<td>Group C</td>
<td>$501,000 - $750,000</td>
<td>$450</td>
<td>$315</td>
</tr>
<tr>
<td>Group D</td>
<td>$750,001 - $1,000,000</td>
<td>$500</td>
<td>$350</td>
</tr>
<tr>
<td>Group E</td>
<td>$1,000,001 - $2,500,000</td>
<td>$600</td>
<td>$420</td>
</tr>
<tr>
<td>Group F</td>
<td>≥ $2,500,001</td>
<td>$750</td>
<td>$525</td>
</tr>
<tr>
<td>Associate Member</td>
<td>Businesses not engaged in pumping, inspecting, or installing</td>
<td>$250</td>
<td>$175</td>
</tr>
</tbody>
</table>

This is an honor system; we trust you. You will not be audited. Revenue information about any individual member will be held in the strictest confidence.

 Checks should be made payable to PSMA. (U.S. funds only)

Credit Card:
 Visa
 MasterCard
 Discover

Name on Card: ____________________________ Exp. Date: __________

Card Number: ____________________________ 3-Digit Security Code: ____ Signature: ____________________________

Your cancelled check will be your receipt. PSMA’s Federal Tax ID number is 23-2719979

Please send this form with your payment to:
PSMA, PO Box 144, Bethlehem, PA 18016; or fax to (215) 689-4263
2019 Pennsylvania Decentralized Wastewater Conference & Trade Show

January 28-29, 2019
Red Lion Hotel, 4751 Lindle Road, Harrisburg, PA

TAKE THE INSTALLATION OF ONSITE WASTEWATER SYSTEMS TRAINING COURSE!

For more info or to REGISTER ONLINE, visit www.PSMA.net