

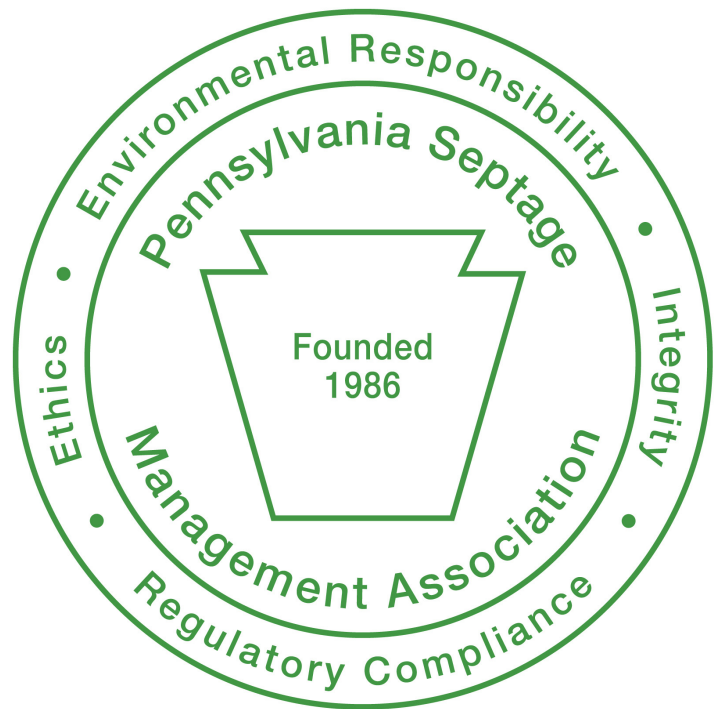


Pennsylvania Decentralized Wastewater Conference and Trade Show

January 30 - 31, 2023

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 **2023 Pennsylvania Decentralized Wastewater Conference and Trade Show!** PSMA is pleased to announce that we'll be holding the in-person conference in a central location for members: **Red Lion Hotel, 4751 Lindle Road, Harrisburg, PA 17111**. The conference is being held **January 30-31, 2023**. 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 Harrisburg Hershey

4751 Lindle Road
Harrisburg, PA 17111
(717) 939-7841
www.RedLion.com

Room Block Code: PA Septage Management Association
Rate: \$100 per night plus tax for single or double occupancy
Deadline to receive group room rate: January 14, 2023



CANCELLATIONS & REFUNDS

Cancellations must be made, in writing, by **January 25, 2023** 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 25th. 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 25th. **The registration deadline via the website is January 27th.**



CONTINUING EDUCATION

Continuing education credits are available for PSMA SRI Inspectors. One PSMA SRI continuing education credit is awarded for each qualified break-out session attended. A maximum of 8 PSMA SRI 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 qualified conference breakout session attendance. If approved, one SEO credit is awarded per half day attended.

PSMA is also offering the one-day National Vacuum Truck Technician Training certification course on Jan 31st which is approved for 6 PSMA SRI credits.

SCHEDULE OF EVENTS

Subject to Change

Sunday, January 29

3:00pm - 6:00pm	Exhibitor Move-In
6:00pm - 8:30pm	PSMA Board of Directors Dinner Meeting

Monday, January 30

7:30am - 8:30am	Registration Desk Opens
7:30am - 8:30am	Continental Breakfast in Exhibit Hall
7:30am - 7:00pm	Exhibit Hall Open
8:30am - 9:45am	Opening Comments & Plenary Session
9:45am - 10:15am	Morning Break in Exhibit Hall / Networking
10:15am - 11:30am	AM Educational Breakout Sessions
11:30am - 12:45pm	Lunch in Exhibit Hall
12:45pm - 2:00pm	PM Educational Breakout Sessions
2:00pm - 2:30pm	Afternoon Break in Exhibit Hall / Networking
2:30pm - 3:45pm	PM Educational Breakout Sessions
4:00pm - 5:00pm	PSMA Regional Meetings
5:00 p.m. - 7:00 p.m.	Happy Hour & Buffet Dinner Reception

Tuesday, January 31

7:30am - 8:30am	Registration Desk Opens
7:30am - 8:30am	Continental Breakfast in Exhibit Hall
7:30am - 2:30pm	Exhibit Hall Open
8:30am - 4:30pm	<u>Training Courses:</u> National Vacuum Truck Technician Training
8:30am - 9:45am	AM Educational Breakout Sessions
9:45am - 10:15am	Morning Break in Exhibit Hall / Networking
10:15am - 11:30am	AM Educational Breakout Sessions
11:30am - 12:45pm	Lunch in Exhibit Hall
12:45pm - 2:00pm	PM Educational Breakout Sessions
2:00pm - 2:30pm	Afternoon Break in Exhibit Hall / Networking
2:30pm - 3:45pm	PM Educational Breakout Sessions
4:00 p.m.	Conference Closes



MONDAY, JANUARY 30, 2023

8:30am - 9:00am **Opening Comments & Conference Announcements**

Jeff Rachlin, PSMA Conference Chairman; Ned Lang, PSMA President

9:00am - 9:45am **Opening Plenary Session: PA Sewage Advisory Committee Update**

Joseph Valentine, PSMA SAC Representative

Attendees will be welcomed to PSMA's 2023 conference and provided with updates on the association's activities. A detailed report from PSMA's representative on the PA Sewage Advisory Committee will be shared. The presentation will include a summary of potential changes proposed to PADEP's Technical Decision Making process and the use of conventional technology, alternate technology, experimental technology and Best Technical Guidance (BTG) when repairing malfunctioning individual and community on-lot sewage systems.

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

Choice A: **Inspection Report Writing for Office Support Staff**

Ray Erb, Thomas Erb & Sons, Inc.

Whether you write the PSMA inspection report, review or proofread it before sending it out, this session will present details that should be asked before the final report leaves the office.

Choice B: **Tank Standards**

Cody Vigil, Infiltrator Water Technologies

Septic tank standards are only required in a handful of states or counties across the country. Pennsylvania is no different than most of the country. Should septic tank standards be required? Are the tanks you install or specify a quality that you know will last for the life of the system being installed or is it the weak link?

Choice C: **Flow Equalization for On-Site Wastewater Disposal Systems**

Adam Browning, Penn's Trail Environmental

Flow equalization is the process through which hydraulic velocity or flow rate is managed throughout a set time period to increase the effectiveness of treatment. Flow equalization can be beneficial in most all wastewater treatment systems. Its use can manage erratic or inconsistent periods of high volume and can ultimately reduce the cost of the disposal system. This presentation will walk you through the basics of when and where flow equalization should or can be applied and the calculations through which the process is employed.

Choice D: **Septic System Siting for Repair and/or New Construction**

Jeff Rachlin, OnSite Management

Principles for location of a new absorption system area for a repair as well as new construction will be discussed. Testing for limiting zones and procedures for percolation testing will be identified. We will also be considering when to use a particular type of system based on site evaluation, slope, aesthetics, cost, performance, and longevity.

12:45pm - 3:45pm **Half-Day Workshop**

Choice A: **Why Should I Work for Your Company? The Answer to Winning the War on Talent!**

Kim Nash, THriv

Yesterday's recruitment plan does not work today! Using a strategic approach, this half-day workshop will help you create a recruitment plan that focuses on a strong employment brand. Employers are competing for talent like never before! Retaining talent and attracting new talent is more difficult

than ever! The workforce is changing; it is time for employers to step up the game and get real! We need to play differently! When a current employee or a candidate asks, "why should I work for this organization," are you prepared to respond? High pay and rich benefits are great, but it isn't enough today. What makes your culture unique? Why does talent stay and what attracts candidates? Is the story getting out? During this session, we will use a SWOT analysis approach to identify the strengths, weaknesses, opportunities, and threats of our employment brand/culture. Followed by action plans for attracting and retaining employees.

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

Choice B: Challenges of Treating High-Strength Wastewater

Oran Biehl, Premier Tech Aqua

Most states have not considered high-strength wastewater characteristics when defining guidelines for designing on-site sewage disposal systems. Wastewater is usually defined as high strength when concentrations of BOD, TSS, FOG, or nitrogen are higher than typical domestic wastewater. The focus is commercial and non-residential water usages that lead to unusual or high wastewater strengths. These include restaurants, truck stops, breweries, etc. Many states now recognize that the treatment of high BOD₅, TSS, or FOG concentrations requires different strategies than those used for typical domestic applications. Several pretreatment possibilities exist, but the extent to which they reduce high-strength wastewater is not fully understood. Treatment must not only reduce wastewater strength, but also bring effluent quality into conformity with stringent discharge limits. Highly variable conditions and limited operator knowledge in decentralized applications mean that treatment systems must be simple, flexible, reliable, and robust. Premier Tech tested and adapted approaches to reach different treatment levels. These relied on trickling towers or MBBRs for water roughing or combining one of these technologies with biofilters as a final polishing step to ensure the system consistently meets stringent discharge targets. In the combined approach, biofiltration acts as a physical barrier that enables the system to compensate for highly fluctuating conditions that affect the roughing process. This approach enhances performance on certain parameters, such as nitrification, without adding substantial cost. In addition, economic analysis shows that it is advantageous for higher strengths.

Choice C: Pump Controls and Applications

Jim Felker, SJE Rhombus

This presentation will discuss pump floats versus control floats including the limitations of pump floats and float characteristics. The instructor will cover setting float levels in the wet well; when to use a control panel; and demand dose versus timed dose approaches. Attendees will learn the theory of operations of a control panel: Timed dose, Simplex, Duplex.

Choice D: Septic System Design

Jeff Rachlin, OnSite Management

We will be discussing the different types of absorption areas as well as the requirements for pre-treatment and distribution systems and the pros and cons of each. We will be using "real world" examples and design requirements for each. Principles for designing with "maintenance in mind" will be presented.

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

Choice B: Service and Maintenance of the Norweco Singlair Model 960 and Hydro-Kinetic Bio-Film Reactor Onsite Advanced Treatment System

Brett Wieber, Norweco Inc.

This session will provide information regarding the service and maintenance of the Singlair 960-HKBFR treatment train, which is Norweco's Pennsylvania approved wastewater treatment system. It will cover the proper removal, service and re-installation of the Norweco 206C aerator; best practices on removing, cleaning and servicing the Bio-Kinetic system in the field as well as the evaluation and cleaning of the media contained in the HKBFR's reactor elements. This session will also cover proper pumping of this system. System drawings and instructional material will be provided to each attendee.

Choice C: The Evolution of Vac Truck Technology

Tim Lightner, Pik Rite Inc.

This presentation will include information on the history and development of waste management transportation equipment. We will discuss the systems and types of pumps used, how they are driven, and why they are used. Truck chassis components and options will be reviewed. Tank materials, mounting, design, and component options will be discussed and how they can affect worker safety. Finally, what's next in the world of liquid waste handling?

Choice D: Designing for Organic Loading: Another Way to Design On-Lot Wastewater Systems

Jeff Rachlin, OnSite Management

The design code in Pennsylvania is very prescriptive. It's based on standard residential sewage qualities. We will be discussing another way of designing repairs for systems based upon the strength of the waste and characteristics when things go wrong.

TUESDAY, JANUARY 31, 2023

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

Choice A: Inspection Best Practices From Taking The Call to Issuing The Report

Frank Parker, Parker Wastewater Consulting; Craig Morris, ALL4HIM Septic Inspections

Inspections can be systems too. In anything one does, a methodical approach helps create consistency and gain efficiencies. In this session, we will cover common techniques and resources for reducing confusion, saving site time, and maximizing report content while doing everything from taking the order, to being organized at the site, to condensing your results for a final, comprehensive report. Please join us as beneficial information is exchanged.

Choice B: Proper Sampling: Best Practices to Ensure Proper Measurement of Various Wastewater Constituents

Brett Wieber, Norweco Inc.

Proper sampling is critical in determining whether municipal, commercial and residential wastewater treatment systems are discharging properly treated effluent to the environment. This session will provide an overview on various wastewater constituents and organisms, including CBOD5, TSS, Nitrogen, Dissolved Oxygen, Fecal Coliform and E. Coli, and then will review best practices when sampling using sampling procedures for Norweco's Pennsylvania approved system as an example. Other topics will include the two sampling techniques (Grab and Composite) and the pros and cons of each one. Reference material regarding proper sampling will be provided to each attendee.

Choice C: JET BAT Media System

Ed Schloss, JET Inc.

In this training, we will discuss how the Jet BAT Media System operates and how the professional service provider maintains and troubleshoots the system.

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

Choice A: Damage Prevention Starts with One Call

Kevin Goldblum, Pennsylvania One Call

Our purpose is to prevent damage to underground facilities. To promote safety, we provide an efficient and effective communications network among project owners, designers, excavators, and facility owners. This class will teach the different types of Emergency Notifications and how to deal with an Emergency when it arises. We will also discuss techniques for planning, notifying, responding, protecting underground utilities, and your obligations according to the state law--PA Act 287 of 1974, as amended.

Choice B: American Perc-Rite Drip Startup, Operation & Maintenance

Bryan Allen, American Mfg. Co.

This “Perc-Rite®” Drip Dispersal class will cover both the basic and advanced techniques used during drip dispersal system startups, service calls and routine maintenance events. There will be a review of procedures, checklists and troubleshooting including setting up and adjusting parameters in the PLC. The class will cover drip control panels, hydraulic filter units, pumps, floats, valves, drip tubing, etc.

Choice C: Pump Sizing & Selection

Jeff Hammersmith, Ashland Pump

This session will help attendees determine the correct sizing and selection of effluent pumps for new or replacement scenarios. The presenter will cover how to correctly determine pump capacity requirements, how to understand sewage pump curve graphs, and how to select the right pump for the system.

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

Choice A: How to Tie Your Traditional Advertising to Digital Marketing Workshop

Shawn Lutzko, Lutzko Marketing

Did you ever wonder what you spend on advertising? Is it working? Do you even know what you are paying for? These are questions business owners have been asking themselves for years. What we do is determine what you're spending and where. We evaluate your current advertising efforts and provide recommendations. In most cases you save money and move some, if not all of your marketing efforts to other platforms. Bring in the bills, contracts and any other information you have on your current advertising, we will evaluate everything to determine if it's doing the right thing. Don't spend any money advertising your business currently? We can show you how to grow your business using traditional and digital marketing programs that have a long record of proven success.

Choice B: Protecting Absorption Areas Through the Use of Time Dosing

Duane Mowery, ExpertSeptic

In this session, the attendees will be familiarized with some existing and legacy pump time dosing controls and will have the opportunity to become acquainted with the benefits and the power of time dosing accompanied by historical data collection. A part of this presentation will involve actual situations where data from time dosing panels has been used to successfully diagnose conditions detrimental to long term absorption area performance BEFORE a malfunction manifested itself.

Choice C: Research and Demonstration Center for On-Lot Systems and Small Flow Technologies

Joseph Valentine, VW Consultants

On-lot sewage research was conducted at Delaware Valley College (now University) from 1994 to 2005. The research was funded by the Pennsylvania Department of Environmental Protection. Phase I of the project (1994-1999) was charged with identifying six technologies that are used elsewhere in the USA, install three full scale installations, and monitor their treatment effectiveness for three years. A report on this phase of the research was issued in 2000. Phase II of the project (2000-2005) was a continuation of research on five of the technologies evaluated in Phase I with some system modifications along with four community systems (2000 gpd) using drip irrigation for beneficial use on turf, pasture, and crops. A report on this phase of the research was issued in 2005. This presentation will summarize the research findings of both phases including which of the technologies that showed encouraging results that could have been implemented in PA. The presentation will outline what has been implemented by the DEP for use in PA based on this research.

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

Choice A: High-Intensity Soil Mapping for Sewage Facility Planning

Laurel Mueller, Soil Services Company

The National Cooperative Soil Survey ("Web Soil Survey") is the best free information available about land and should not be overlooked. However, when the soil surveys were made, there were no GPS, Google Earth, Lidar contours, surficial geologic mapping, cell phones, or internet. Private property access for digging was very limited. Most soils were observed by hand shovel and auger. Interpretations for use were based on national standards for primarily agronomic and forestry purposes and were not based on current regulatory standards for your proposed use in your region. Soil mapping unit ratings for onlot sewage system feasibility did not consider new technologies. To meet the needs for detailed land development planning, including sewage facility planning, professional Soil Scientists can combine their soil mapping skills with high density excavated test pits and modern tools to produce high-intensity soil mapping for specific uses and permitting. The benefits are more efficient planning and engineering based on real landscape limitations, and fewer conflicts between stormwater infiltration zones and aerated absorption areas.

Choice B: Orenco Advantex Operation, Maintenance, and Inspection

Brent Hershey, Tri-County Water Services

Discover what to expect when encountering an Advantex Treatment system in the field. We will discuss their basic function, performance, maintenance, and key items to look for when inspecting.

Choice C: Not Every Hydraulic Load Test Scenario Can Fit Into the Box

Ray Erb, Thomas Erb & Sons, Inc.; Rachel Evangelista, Greenwick Septic

At times an inspector will find that the on-lot wastewater treatment system they have been asked to inspect will not fit into a neat little box. Then to top that off they will need to conduct an HLT on it. What does the inspector do? Our group of inspectors will discuss various scenarios and solutions that have worked for them in the past.

8:30am - 4:30pm Full-Day Training Course

National Vacuum Truck Technician Training and Certification Course

Bruce Fox, Allstate Septic Systems

If you own or operate a vacuum truck to clean septic tanks, aerobic Treatment units, holding tanks or grease traps, this one day training session is for you or your employees. Topics of instruction include: Truck equipment and components; Drive and control mechanisms; Basic pump truck operation; Pumps; Basic science of vacuum and pressurization; Basic and Advanced pump out skills and procedures; Materials to pump and avoid; Loading and unloading; Reasons to manage these materials; Manifests and reports; Government regulations; Safety, Spills and Emergency Response plans; Customer interaction and education. Individuals who complete the course work and achieve a passing grade on the post-training exam become PSMA Certified Vacuum Truck Technicians.

Register & pay online at www.PSMA.net



2023 PA DECENTRALIZED WASTEWATER CONFERENCE & TRADE SHOW REGISTRATION

Please note: Paper registrations must be received by **January 25, 2023**. Online registration (www.PSMA.net) is open until **January 27, 2023**. The cancellation deadline is **January 25, 2023**. 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.

Complete & Return to
PSMA by January 25th.
Or, visit www.PSMA.net
to REGISTER ONLINE.

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.

Monday Only Registration Prices: ☐ \$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: ☐ \$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.

Additional Monday Dinner Reception Ticket for Your Guests: _____ @ \$50 per ticket \$_____

*One reception ticket is included in the Full Registration fee.

All-Inclusive Meal Ticket for Your Guests: _____ @ \$155 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

OVER →

2023 PA DECENTRALIZED WASTEWATER CONFERENCE & TRADE SHOW REGISTRATION (page 2)

☒ **Select Your Session Choices** (subject to change)

Please indicate which educational sessions/courses 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 a training course - we cannot accommodate training course walk-ins. Also, kindly indicate whether you plan to stay for Monday night's reception.

MONDAY	Choice A	Choice B	Choice C	Choice D
8:30am-9:45am	<input type="checkbox"/> Opening Comments & Opening Plenary Session - PA Sewage Advisory Committee Update			
10:15am-11:30am	<input type="checkbox"/> Inspection Report Writing for Office Support Staff	<input type="checkbox"/> Tank Standards	<input type="checkbox"/> Flow Equalization for OnSite Wastewater Disposal Systems	<input type="checkbox"/> Septic System Siting for Repair and/or New Construction
12:45pm-2:00pm	<input type="checkbox"/> Why Should I Work for Your Company? The Answer to Winning the War on Talent! Workshop	<input type="checkbox"/> Challenges of Treating High-Strength Wastewater	<input type="checkbox"/> Pump Controls and Application	<input type="checkbox"/> Septic System Design
2:30pm-3:45pm		<input type="checkbox"/> Service & Maintenance of the Norweco Singulair Model 960 and HKBFR	<input type="checkbox"/> The Evolution of Vac Truck Technology	<input type="checkbox"/> Designing for Organic Loading
5:00pm-7:00pm	<input type="checkbox"/> Yes, I'm Staying for the Happy Hour Networking & Buffet Dinner Reception; <input type="checkbox"/> No, I won't.			

TUESDAY	Choice A	Choice B	Choice C	Training
8:30am-9:45am	<input type="checkbox"/> Inspection Best Practices From Taking The Call to Issuing The Report	<input type="checkbox"/> Proper Sampling: Best Practices to Ensure Proper Measurement	<input type="checkbox"/> JET BAT Media System	<input type="checkbox"/> <u>Training Course:</u> National Vacuum Truck Technician Training and Certification Course (8:30am-4:30pm)
10:15am-11:30am	<input type="checkbox"/> Damage Prevention Starts with One Call	<input type="checkbox"/> American Perc-Rite Drip Startup, Operation & Maintenance	<input type="checkbox"/> Pump Sizing & Selection	
12:45pm-2:00pm	<input type="checkbox"/> How to Tie Your Traditional Advertising to Digital Marketing	<input type="checkbox"/> Protecting Absorption Areas Through the Use of Time Dosing	<input type="checkbox"/> Research for On-Lot Systems and Small Flow Technologies	
2:30pm-3:45pm	<input type="checkbox"/> High-Intensity Soil Mapping for Sewage Facility Planning	<input type="checkbox"/> Orenco Advantex Operation, Maintenance, and Inspection	<input type="checkbox"/> Not Every HLT Scenario Can Fit Into the Box	

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

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

Save the Date!

PSMA/NOF Annual Spring Training

March 28-29, 2023

Holiday Inn Harrisburg (I-81)
604 Station Road, Grantville, PA 17028

Training Courses Currently Planned:

- PSMA/NOF 101 Basic Inspector Certification
- PSMA/NOF 102 Advanced Inspector Certification
- PSMA/NOF 103 Experienced Inspector Certification
- PSMA/NOF SR1 Standards Refresher





Pennsylvania Septage Management Association

P.O. Box 144
Bethlehem, PA 18016

www.PSMA.net

2023 Pennsylvania Decentralized Wastewater Conference & Trade Show

Gain New Knowledge. Expand Your Network. Grow Your Business.

Join your colleagues at Pennsylvania's premier event for the septage industry

January 30 - 31, 2023
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For more info or to **REGISTER ONLINE**, visit www.PSMA.net

TAKE THE
NATIONAL VACUUM
TRUCK TECHNICIANS
TRAINING & CERTIFICATION
COURSE!

Thank you conference sponsors:



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