



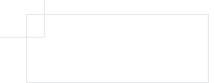
# Pennsylvania Decentralized Wastewater Conference and Trade Show

January 30-31, 2023

Red Lion Hotel Harrisburg, PA

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#### MON BREAKFAST





MON HAPPY HOUR



# SCHEDULE OF EVENTS

| Sunday, January 29th |
|----------------------|
|----------------------|

| 3:00 p.m 6:00 p.m. | Exhibitor Move-In                       |
|--------------------|---|
| 6:00 p.m 9:00 p.m. | PSMA Board of Directors' Dinner Meeting |

## Monday, January 30th

| 7:30 a.m.            | Registration Opens  |
|----------------------|---|
| 7:30 a.m 8:30 a.m.   | Continental Breakfast in Exhibit Hall (sponsored by PikRite Inc.)                         |
| 7:30 a.m 7:00 p.m.   | Exhibit Hall Open   |
| 8:30 a.m 9:45 a.m.   | Opening Plenary Session   |
| 9:45 a.m 10:15 a.m.  | Morning Break in Exhibit Hall / Networking  |
| 10:15 a.m 11:30 a.m. | Educational Breakout Sessions   |
| 11:30 a.m 12:30 p.m. | Lunch in Exhibit Hall<br>(sponsored by Drillers Service LLC)                              |
| 12:45 p.m 2:00 p.m.  | Educational Breakout Sessions   |
| 2:00 p.m 2:30 p.m.   | Afternoon Break in Exhibit Hall / Networking  |
| 2:30 p.m 3:45 p.m.   | Educational Breakout Sessions   |
| 4:00 p.m 5:00 p.m.   | PSMA Regional Meetings  |
| 5:00 p.m 7:00 p.m.   | Happy Hour & Buffet Dinner in Exhibit Hall<br>(sponsored by Premier Tech. & ExpertSeptic) |

# Tuesday, January 31st

| 7:30 a.m.            | Registration Opens                               |
|----------------------|--|
| 7:30 a.m 8:30 a.m.   | Continental Breakfast in Exhibit Hall            |
| 7:30 a.m 2:30 p.m.   | Exhibit Hall Open                                |
| 8:30 a.m 4:30 p.m.   | National Vacuum Truck Technician Training Course |
| 8:30 a.m 9:45 a.m.   | Educational Breakout Sessions                    |
| 9:45 a.m 10:15 a.m.  | Morning Break in Exhibit Hall / Networking       |
| 10:15 a.m 11:30 a.m. | Educational Breakout Sessions                    |
| 11:30 a.m 12:30 p.m. | Lunch in Exhibit Hall                            |
| 12:45 p.m 2:00 p.m.  | Educational Breakout Sessions                    |
| 2:00 p.m 2:30 p.m.   | Afternoon Break in Exhibit Hall / Networking     |
| 2:30 p.m 3:45 p.m.   | Educational Breakout Sessions                    |
| 2:30 p.m 4:00 p.m.   | Exhibitor Move-out                               |
| 4:30 p.m.            | Conference Closes                                |



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## MONDAY, JANUARY 31, 2022

#### 7:30am - 8:30am Exhibitor Hall Sponsored by Pik Rite, Inc.



8:30am - 9:45am Confe

PA Ballroom

#### Conference Welcome

Ned Lang, PSMA President Jeff Rachlin, Conference Chair Angela Leopold, PSMA Lobbyist Ray Erb, PSMA Education Committee Chair

Welcome to the conference! The opening comments will ensure you are aware of any important udpates or changes to the schedule. PSMA representatives from Pennsylvania's Sewage Advisory Committee and Legislative Committee will provide attendees with an update on important policy issues and information on the Commonwealth's onsite wastewater program.

#### Opening Plenary Session: PA Sewage Advisory Committee Update

Joseph Valentine, PSMA SAC Representative

Attends 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

#### East Derry 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.

#### West Derry 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?

# Susquehanna 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 is most all wastewater treatment systems. It's 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.

#### Amphitheater 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.

# 11:30am - 12:30pm Lunch in the Exhibit Hall

Exhibitor Hall Sponsored by Drillers Service LLC



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

#### East Derry 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

West Derry

## Introduction to Pressurized UV Lights

(Replaces: Challenges of Treating High-Strength Wastewater Session) Oran Biehl, Premier Tech Agua

The purpose of a UV disinfection unit is to reduce the concentration of fecal coliforms. The operating principle of the UV disinfection unit is to expose microorganisms to a given dose of ultraviolet rays. The dose depends on the time of exposure and the intensity of the rays; the applied flowrate on the UV unit ensures an optimal exposure time providing the required dose. This session will cover where UV lights are required and how to service & design with the DiUV (pressurized UV).

#### Susquehanna **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.

#### Amphitheater Septic System Design

leff Rachlin, OnSite Management

We will be discussing the different types of absorptions 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

#### West Derry Service and Maintenance of the Norweco Singulair Model 960 and Hydro-Kinetic Bio-Film ReactorOnsite Advanced **Treatment System**

Brett Wieber, Norweco Inc.

This session will provide information regarding the service and maintenance of the Singulair 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.

#### Susquehanna 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?

#### Amphitheater Designing for Organic Loading: Another Way to Design On-Lot Wastewater Systems

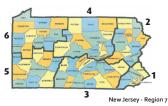
Jeff Rachlin, OnSite Management

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.

#### 4:00pm - 5:00pm PSMA Regional Meetings

West Derry East Derry Susquehanna

Capital East Region I (Southeast PA) Meeting Capital West Region 2 (Northeast PA) Meeting Lancaster Region 3 (Southcentral PA) Meeting Region 4 (Northcentral PA) Meeting Region 5/6 (Western PA) Meeting Region 7 (New Jersey) Meeting



5:00pm - 7:00pm

#### Happy Hour Reception & Buffet Dinner

Exhibitor Hall Sponsored by Premier Tech. & ExpertSeptic





#### TUESDAY, JANUARY 31, 2023

#### 7:30am - 8:30am Continental Breakfast in Exhibit Hall **Exhibitor Hall** 8:30am - 9:45am Educational Breakout Sessions West Derry 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. Susquehanna **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. Amphitheater JET BAT Media System Ed Schloss, JET Inc. In this training, we will discuss how the let BAT Media System operates and how the professional service provider maintains and troubleshoots the system.

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

Susquehanna

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.



#### Amphitheater 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.

#### West Derrv **Pump Sizing & Selection**

leff 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.

#### 11:30am - 12:30pm Lunch in the Exhibit Hall

Exhibitor Hall

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

#### West Derry How to Tie Your 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.

## Amphithteater 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.



# Susquehanna 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

Susquehanna

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.

#### Amphitheater 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.

# West Derry 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

#### East Derry 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

Thank you for attending PSMA's 2023 conference! Don't forget to drop off your Attendance Documentation Form at the conference desk if you are seeking continuing education credits.

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# **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



Registration info will be available at PSMA.net

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Premier Tech Aqua | I Avenue Premier | Riviere-du-Loup QC G5R 6C1 (412) 652-6356 | bieo@premiertech.com

#### **ADAM BROWNING**

Penn's Trail Environmental | 21. E Lincoln Ave | Hatfield, PA 19440 (215) 362-4610 | abrowning@pennstrail.com

#### **RAY ERB**

Thomas H. Erb & Sons, Inc. | 268 Sego Sago Road, Litiz, PA 17543 (717) 626-5591 | erbs@ptd.net

#### **RACHEL EVANGELISTA**

Greenwick Septic System | 1102 Octorara Trail, Parkesburg, PA 19365 (610) 857-3548 | greenwickseptic@gmail.com

#### JIM FELKER

SJE Rhombus | 22650 County Highway 6 | Detroit Lakes, MN 56502 (248) 513-9323 | jim.felker@sjeinc.com

#### **BRUCE FOX**

Allstate Septic Systems | 5167 Berry Hollow Rd, Bangor PA (800) 858-3111 | bfox@allstateseptic.com

#### **KEVIN GOLDBLUM**

Pennsylvania One Call System | 925 Irwin Run Rd |West Mifflin, PA 15122 (717) 487-0797 | ksgoldblum@pa1call.org

#### JEFF HAMMERSMITH

Ashland Pump | 1899 Cottage St | Ashland, OH 44805 (419) 281-6571 | jhammersmith@ashlandpump.com

#### BRENT HERSHEY

Tri-County Water Services | 443 W. Ist Ave | Parkesburg, PA 19365 (610) 857-1740 | brent@tricowater.com

#### ANGELA LEOPOLD (PSMA Lobbyist)

Novak Strategic Advisors | 500 N.Third St, 9th Fl, Harrisburg, PA 17101

(717) 234-9909 | angela@nsallc.com

#### TIM LIGHTNER

Pik Rite Inc. | 60 Pik Rite Ln | Lewisburg, PA 17837 (570) 768-4022 | tim@pikrite.com

#### SHAWN LUTZKO

Lutzko Marketing | 8206 Hawk View Rd, Germansville, PA 18053 (610) 505-6550 | lutzkomarketing@gmail.com

#### **CRAIG MORRIS**

ALL4HIM Septic Inspections | 13 Baxter St, Coatesville, PA 19320 (484) 709-1999 | craig@all4himseptic.com

#### **DUANE MOWERY**

Expert Septic LLC | PO Box 410 | Newburg, PA 17240 (717) 423-5909 | duane@expertseptic.com

#### LAUREL MUELLER

Soil Services Company | 5804 Route 87 | Forksville, PA 18616 (570) 896-0055 | laurel@soilservicescompany.com

# **SPEAKER DIRECTORY**

#### KIM NASH

THriv | 976 Clifton Heights Rd | Hummelstown, PA 17036 (717) 298-3030 | kim@uthriv2.com

#### FRANK PARKER

Parker Wastewater Consulting | PO Box 1854, West Chester, PA 19380

(610) 408-8110 | consultfp@aol.com

#### JEFFREY RACHLIN

OnSite Management | 1099 Saunders Ct, West Chester PA 19380 (610) 430-3100 | jr@onsitemgt.com

#### ED SCHLOSS

JET Inc. | 750 Alpha Dr | Cleveland, OH 44143 (216) 402-0337 | eschloss@jetincorp.com

#### **BRETT WIEBER**

NORWECO Inc. | 220 Repubic St | Norwalk, OH 44857 (419) 668-4471 | bwieber@norweco.com

#### **JOE VALENTINE**

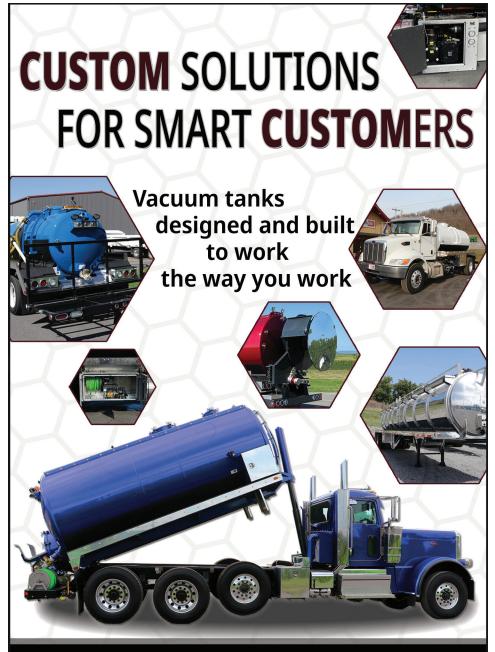
VW Consultants | 1830 Walnut Ln | Quakertown, PA 18951 (267) 784-6873 | jvalentine@vw-consultants.com

#### **CODY VIGIL**

Infiltrator Water Technologies | 4 Business Park Rd | Old Saybrook, CT 06475 (540) 487-2317 | cvigil@infiltratorwater.com

## Thank you to all our conference speakers & trainers!





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# **CONTINUING EDUCATION**

Continuing education credits are available for those attending the 2023 PA Decentralized Wastewater Conference & Trade Show.

Upon checking-in at the Conference Registration Desk, you should have received an **"Attendance Documentation Form"** listing all the sessions available at the conference. If you are seeking PSMA, SEO, or other continuing education credits, you must have each session moderator stamp your Attendance Documentation Form to verify your attendance at that session.

At the conclusion of the Conference, please return the Attendance Documentation Form to the Registration Desk for processing. Without this form PSMA <u>cannot</u> report your continuing education credits.

If you are attending the National Vacuum Truck Technician Training Course, the course instructor will have a separate sign-in sheet in the classroom for you to document your attendance. For these courses only, use the sign-in sheets instead of the Attendance Documentation Form.

#### PSMA SRI Credits:

Those PSMA-certified inspectors enrolled in the SR1 Program can earn continuing education credits. PSMA/NOF 101 Basic, 102 Advanced, & 103 Experienced inspector certifications <u>do</u> <u>not</u> require continuing education credits -- <u>only</u> SR1 certification. One PSMA SR1 continuing education credit is awarded for each conference breakout session attended for a maximum of 8 credits. If you are taking the Vacuum Truck training course on Tuesday, it is worth 6 PSMA SR1 continuing education credits per day..

#### PA SEO Credits:

The conference has been approved by PA DEP for up to 4 SEO continuing education credits for conference break-out sessions: DEP Course ID# 9058CONF-0001CONF (Jan 30 AM), 9059CONF-0001CONF (Jan 30 PM), 9060CONF-0001CONF (Jan 31 AM), and 9061CONF-0001CONF (Jan 31 PM).

SEO credits are awarded at the rate of one credit per half-day of break-out sessions attended. So, if you attend both the sessions on Monday morning, you earn one SEO continuing education credit. Likewise for Monday afternoon, Tuesday morning, and Tuesday afternoon. You must attend each session in a particular half-day to earn a credit. A maximum of 4 SEO continuing education credits can be earned if you attend all conference sessions on both days.

The Vacuum Truck Technician Training Course have been approved for 2 credits. You must attend an entire course to qualify for the SEO credit.

PSMA will report your SEO credits to PA DEP (as appropriate) and mail you a hardcopy transcript of the sessions you attended for your records.

Questions? Stop by the Conference Registration Desk for Answers.

# **EXHIBITORS & SPONSORS**

#### Ashland Pump

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#### ExpertSeptic - BRONZE & RECEPTION

Duane Mowery, Mike Kaub PO Box 410 Newburg, PA 17240 717-423-5909 mike@expertseptic.com www.expertseptic.com BOOTH 10



Imerial Industries, Inc. Matt Witter PO Box 1685 Wausau,WI 54402 800-558-2945 matt@imperialind.com www.imerialind.com BOOTH 4

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#### JET Inc.

Ed Schloss 750 Alpha Dr Cleveland, OH 44143 216-402-0337 eschloss@jetincorp.com www.jetincorp.com BOOTH 14

#### Pennsylvania 811 - GOLD

Ryan Parrish, Kevin Goldblum 925 Irwin Run Road West Mifflin, PA 15122 610-906-5137 rtparrish@pa1call.org www.pa1call.org BOOTH 7



#### PA Assn of Sewage Enforcement Officers

Roger Lehmann 4902 Carlisle Pike #268 Mechanicsburg, PA 17050 717-761-8648 admin@pa-seo.org www.pa-seo.org BOOTH 2

#### PA Assn of Professional Soil Scientists

Mike Brown PO Box 200 Berrysburg, PA 17005 717-579-4294 mjbrown8@frontier.com www.papss.org BOOTH 13

#### PA Onsite Wastewater Recycling Assn

Paul Golrick 4075 Linglestown Rd. #228 Harrisburg, PA 17112 610-613-5893 pgolrick@pennstrail.com www.powra.org BOOTH 18

#### PA Dept. of Environmental Protection

Janice Vollero 400 Market St Harrisburg, PA 17105 717-772-5157 jvollero@pa.gov www.pa.gov BOOTH 12

#### Penn State Extension

Andy Yencha, Jennifer Fetter 1451 Peters Mountain Rd Dauphin, PA 17018 717240-6500 azy30@psu.edu http://extension.psu.edu/water BOOTH 19

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Barry Helverson, Oran Biehl I Avenue Premier Riviere-du-Loup, QC G5R6CI 570-369-0583 helb@premiertech.com www.pt-waterenvironment.com BOOTH 5



#### Pipe Xpress Inc. - SILVER

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Parkesburg, PA 19365

brent@tricowater.com

www.tricowater.com



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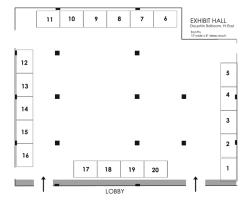
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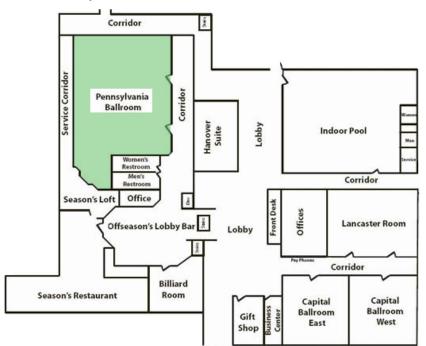
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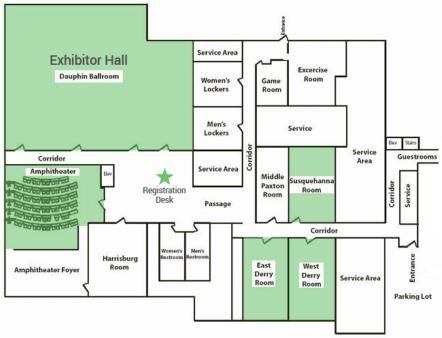
# **HOTEL FLOOR PLAN**

#### **Ground floor/Upstairs**



**Main Entrance** 

#### **Downstairs**



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