



The Pennsylvania Association of  
SEWAGE ENFORCEMENT OFFICERS

# 2023 ANNUAL CONFERENCE & TRADE SHOW

"Where Professionals Go For Education"

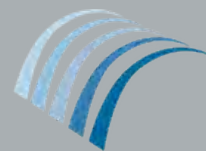
ANNUAL CONFERENCE: March 12-14, 2023, Harrisburg PA

## CONFERENCE PROGRAM

✉ 4902 Carlisle Pike #268, Mechanicsburg, PA 17050  
☎ (717) 761-8648  
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# PASEO Welcomes & Thanks Our 2023 Conference Sponsors

*PASEO gratefully acknowledges the commitment of our sponsors who continue to support our annual conference so that our organization can deliver a quality program. The continued support of our sponsors helps to strengthen not only our SEO community, but the onsite wastewater industry in Pennsylvania and beyond.*

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# Welcome to the 2023 PASEO Annual Conference & Trade Show

PASEO extends a warm welcome to all attendees and thanks each of you for your participation in this year's conference. You are encouraged to experience all the conference events. In addition to the educational work sessions, be sure to enjoy the social and networking opportunities, and visit all of the exhibitors to learn the latest in technologies and services.

Our conference theme this year is "Where Professionals Go For Education."

The Conference Committee is proud to feature four tracks of separate conference presentations given by a variety of professionals from throughout the industry. We also are please to offer three different training courses over the span of three days.

SEO attendees have the ability to obtain PADEP approved continuing education credits for their participation. Attendees can earn credits from both the breakout sessions and the training courses. Please refer to the Continuing Education section in this booklet for more specific information.

We also have an Exhibitor Hall with wastewater vendors and service providers eager to met with you. Be sure to network with the exhibitors and get the latest info on their products.

PASEO offers its sincere thanks and appreciation to all of our gracious sponsors, exhibitors, and speakers who contributed their efforts into making our conference a continuing success each year.

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*Our mission is to protect the public's environmental health through education and proper implementation of appropriate wastewater treatment technology.*



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# Continuing Education Credits Documentation

PASEO has received approval from PADEP for up to four (4) SEO continuing education credits for the 2023 conference sessions. (Course IDs 9062CONF-, 9063CONF-, 9064CONF-, and 9065CONF-0087CONFHRBG.) **For those attending conference breakout sessions, one (1) credit will be awarded for each half day of attendance completed.** In order to maintain the proper documentation for SEO conference credits, attendees must follow the procedures described below. *(See bottom of this page if you are attending any training courses during the conference.)*

To enable PASEO to document which individuals attended which sessions, the following procedure must be followed:

- Present a photo ID upon check-in at the conference and receive your Attendance Documentation Form. This form will list the sessions that you registered to attend.
- At the completion of each session, have the session moderator stamp your “Attendance Documentation Form” for the appropriate session.
- **Attendees must sign and turn in the completed “Attendance Documentation Form” before leaving the conference site.** The forms will be collected at the conference registration area following Tuesday’s keynote speech & plenary session. Documents will not be accepted by mail, fax, or email.
- PASEO will retain the original form. It is suggested you take a photo with your phone.
- A Transcript will be mailed by PASEO to each attendee listing the sessions attended, the training date/time periods, and the duration of each session. Please retain this information for your records.
- PASEO will report directly to PADEP within 30 days of the close of the conference the SEO continuing education credit your earned, as determined by your Attendance Documentation Form. Please note that individuals cannot submit conference documentation to PADEP directly. This is the responsibility of PASEO as the approved conference sponsor.
- Other than to PADEP, it will be your responsibility to submit documentation to other entities for continuing education credit. Each accrediting entity’s actions are independent of PASEO; PASEO makes no claim or guarantee that continuing education credits will be granted by the accrediting body to which you may submit a transcript.

The image shows a sample '2014 PASEO ANNUAL CONFERENCE - CONTINUING EDUCATION ATTENDANCE DOCUMENTATION FORM'. The form is for 'Doe, John' with SEO# 9999. It includes instructions for attendees to present a photo ID, sign the form, and turn it in. A table lists sessions attended, with columns for Name, Date, Time, and Session. The sessions listed are: 'Working Together to Solve the Wastewater Problem' (3/10/14, 9:00am), 'Soil Morphology' (3/10/14, 10:45am), 'O&M: Who? What? Where? How?' (3/10/14, 2:00pm), 'Soil as a Treatment Medium' (3/10/14, 3:45pm), 'Key to Successful System Installation' (3/11/14, 8:00am), 'Online Tools for Site Evaluation' (3/11/14, 9:45am), 'Onsite Wastewater Mng't in the Chesapeake Watershed' (3/11/14, 1:00pm), and 'PADEP Question & Answer Panel Discussion' (3/11/14, 2:00pm). The form also has a 'SIGN HERE' line and a statement: 'I certify that I attended all the sessions as indicated above.'

Name	Date	Time	Session
Doe, John	3/10/14	9:00am	Working Together to Solve the Wastewater Problem
	3/10/14	10:45am	Soil Morphology
	3/10/14	2:00pm	O&M: Who? What? Where? How?
	3/10/14	3:45pm	Soil as a Treatment Medium
	3/11/14	8:00am	Key to Successful System Installation
	3/11/14	9:45am	Online Tools for Site Evaluation
	3/11/14	1:00pm	Onsite Wastewater Mng't in the Chesapeake Watershed
	3/11/14	2:00pm	PADEP Question & Answer Panel Discussion

PADEP Disclaimer: “DEP has approved this conference for SEO continuing education conference credits. The approval is based on the organization’s narrative for the overall conference and each breakout session. DEP has not reviewed the content of the conference and does not guarantee that the sessions provide complete and accurate information about Pennsylvania’s Sewage Facilities Act, the regulations promulgated thereunder, and DEP policy.”

**For those attending the 2-day Installation of Onlot Wastewater Systems training course, you will need to sign-in separately during class each day to document attendance. You will receive a certificate of completion at the conclusion of class. Be sure to hold on to it -- this is your proof of attending the course. A transcript will not follow in the mail.**





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# REGIONAL PASEO MEETINGS

Monday - 1:15 PM

GET INVOLVED. MAKE A DIFFERENCE.

Region 1 (Southeast PA) - *Pennsylvania Ballroom*

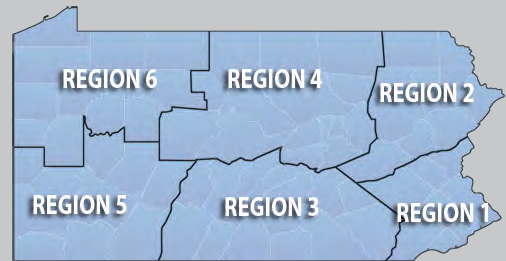
Region 2 (Northeast PA) - *Susquehanna Room*

Region 3 (Southcentral PA) - *West Derry Room*

Region 4 (Northcentral PA) - *East Derry Room*

Region 5 (Southwest PA) - *Keystone Room*

Region 6 (Northwest PA) - *Governor Room*



## RAFFLE PRIZES

Registered conference attendees have several chances to win a door prize. Prizes will be raffled off at Sunday Night's Welcome Reception, Monday Night's Happy Hour, and during Tuesday's Closing Sessions. You'll get one raffle ticket when you first check-in at the registration desk. But, more participation provides greater chances to be a door prize winner! Attend PASEO's Annual Meeting and your Regional Meeting to earn extra raffle tickets. Must be present to win.

### SUN NIGHT

WIN A \$50 GIFT CARD  
Drawing held at Sun Night's  
Welcome Reception.

### MON NIGHT

WIN BINGO RAFFLE PRIZE,  
\$50 GIFT CARD. Drawings held  
at Mon Night's Reception.

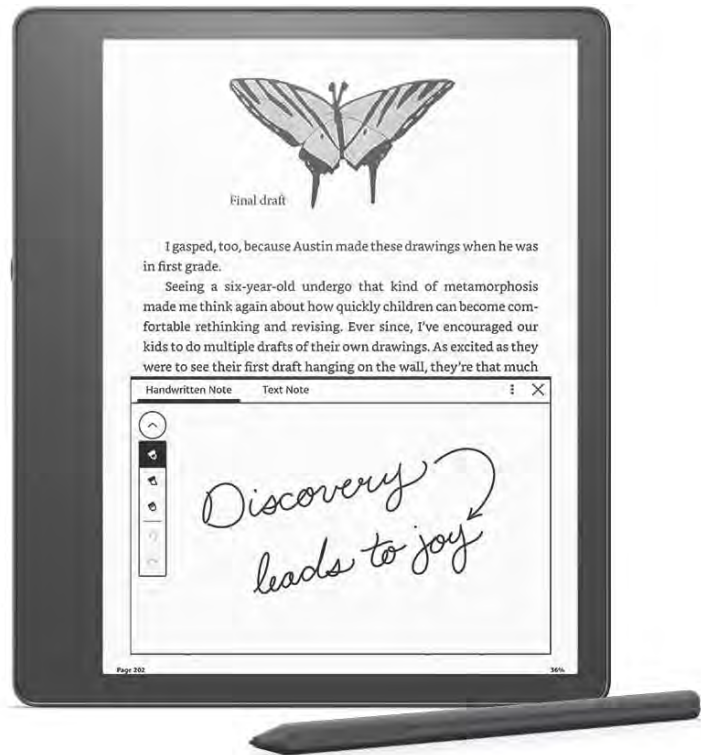
### TUE AFTERNOON

WIN a \$50 GIFT CARD.  
Drawing held during Tue's  
Closing Sessions.

## EXHIBITOR BINGO CARD RAFFLE

When you checked in at the Conference Registration Desk, you should have received an "Exhibitor Bingo Card". The bingo card has eight empty spots for you to get stamped. Each vendor has a different stamp. If you get your card stamped with eight different stamps by visiting various vendors, you can use your bingo card to enter yourself in a special "Bingo Raffle" drawing held on Monday evening during the reception.

The raffle prize for Exhibitor Bingo Raffle is a **KINDLE SCRIBE** (16 GB), the first Kindle for reading and writing, with a 10.2" 300 ppi Paperwhite display, includes Basic Pen. Review documents and take notes digitally – Use the Kindle app or desktop web browser to import documents. Review and mark up PDF files or create sticky notes in Microsoft Word and other compatible documents. Export documents and notes via email.







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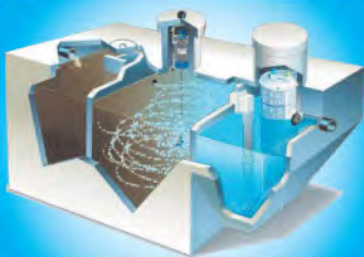
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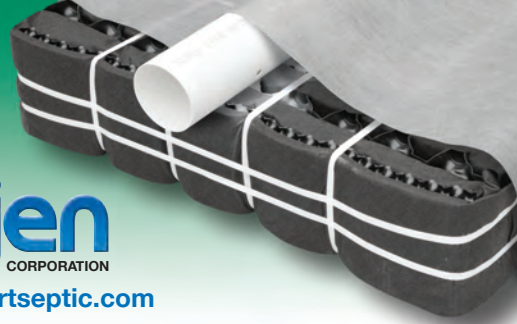
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# Download Conference Presentations/Handouts

Quickly access PASEO conference presentations and other handouts. Scan the QR code with you smartphone's camera (or visit [www.pa-seo.org/conferencehandouts](http://www.pa-seo.org/conferencehandouts)) to access handout session materials.

As we receive handout materials & PDF copies of session presentations, we will post them to the webpage at the QR code link. Please note that not all presenters have shared copies of their presentations. As they become available, PASEO will continue to post them.



SCAN ME FROM YOUR PHONE  
or visit [www.pa-seo.org/conferencehandouts](http://www.pa-seo.org/conferencehandouts).



## ATTEND PASEO'S ANNUAL MEETING

*Tuesday - 11:15 AM*

*Pennsylvania Ballroom*



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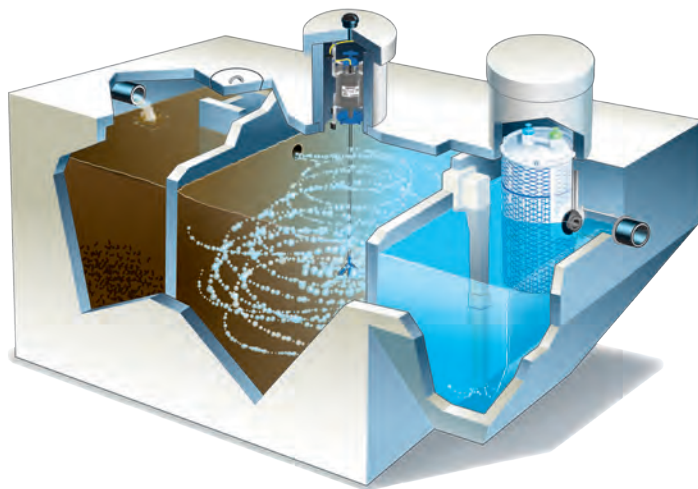


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\*Accredited by PA DEP for six hours of continuing education credit

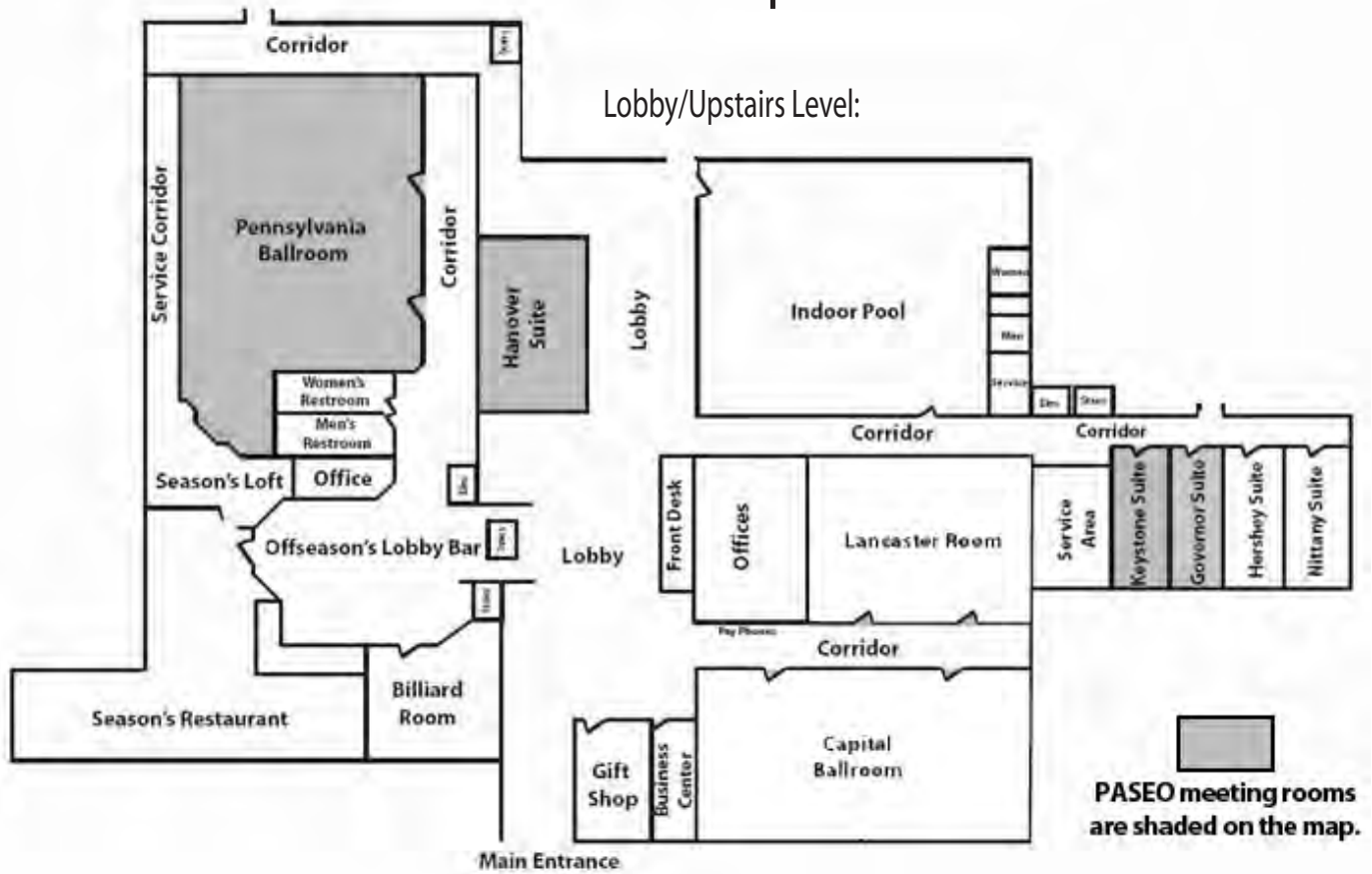
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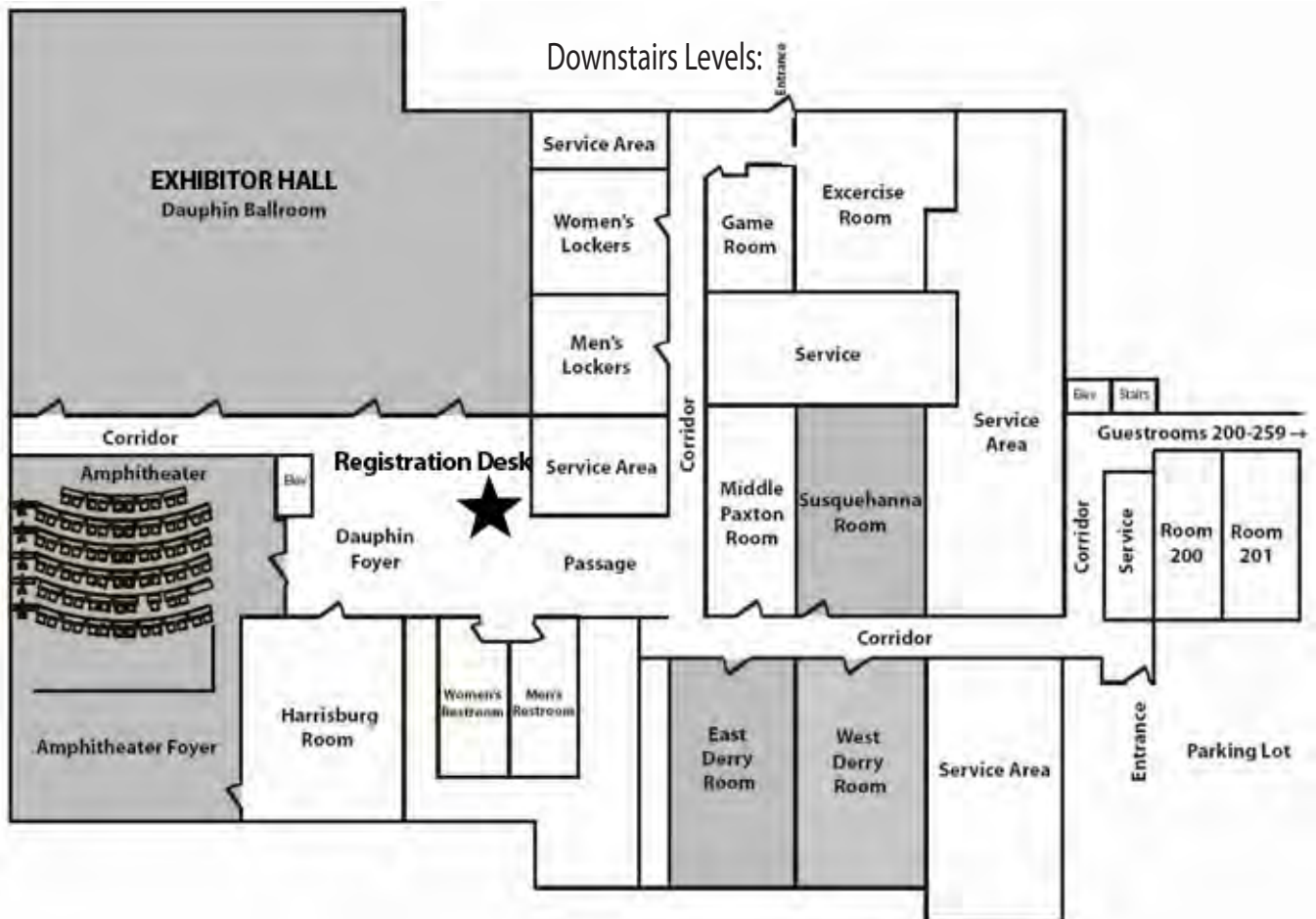
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# Hotel Floorplan

Lobby/Upstairs Level:



Downstairs Levels:



# CONFERENCE SCHEDULE OF EVENTS

## SUNDAY - March 12

9:00am-4:30pm	<b>Optional Add-on Training Courses</b> (must be pre-registered): Troubleshooting Onlot Septic Systems ( <i>Amphitheater</i> ) Orenco Advantex ( <i>Harrisburg Suite</i> )		
3:00pm-4:30pm	<b>CONFERENCE REGISTRATION DESK OPEN</b>		
4:30pm-6:00pm	<b>PASEO STATE BOARD OF DIRECTORS MEETING</b> - Open to all members ( <i>Hanover Suite</i> )		
6:00pm-8:00pm	<b>WELCOME RECEPTION</b> - Appetizers & Cash Bar ( <i>Dauphin Ballroom</i> )		

## MONDAY - March 13

8:00am-9:00am	CONFERENCE REGISTRATION OPEN & CONTINENTAL BREAKFAST in Exhibit Hall (Dauphin Ballroom)			
9:00am-10:15am	Opening Keynote - Deeping Professionalism in the Onsite Treatment Industry (Pennsylvania Ballroom)			
10:15am-10:45am	Break in Exhibit Hall (Dauphin Ballroom)			
10:45am-12:00pm	Prof. Maintenance for the Onsite Systems: Working in Tanks Susquehanna	State Ethics for Regulatory SEOs East Derry	What makes Pennsylvania’s Soil so Difficult? PA Ballroom	Installation of Onsite Wastewater Treatment Systems Training Course Amphitheater
12:00pm-1:00pm	LUNCH BUFFET in Exhibit Hall (Dauphin Ballroom)			
1:15pm-2:00pm	PASEO REGIONAL CHAPTER MEETINGS Region 1 (SE) - PA. Ballroom Region 4 (NC) - East Derry Region 2 (NE) - Susquehanna Region 5 (SW) - Keystone Region 3 (SC) - West Derry Region 6 (NW) - Governor			Installation Course ...continued
2:00pm-3:15pm	Prof. Installation Practices for Soil treatment Areas Susquehanna	Preparing Septic Owners in the Age of Floods East Derry	Sewage Law Potpourri West Derry	(must be pre-registered)  Amphitheater
3:15pm-3:45pm	Break in Exhibit Hall (Dauphin Ballroom)			
3:45pm-5:00pm	Professional System Design and Layout Susquehanna	Effluent Filters and Septic Tank Safety East Derry	Small Flow Treatment Facilities West Derry	
5:00pm-6:00pm	HAPPY HOUR RECEPTION in Exhibit Hall (Dauphin Ballroom)			
6:00pm-8:00pm	DINNER BUFFET, SOCIAL NETWORKING & LIVE MUSIC in Exhibit Hall (Dauphin Ballroom)			

## TUESDAY- March 14

7:00am-8:00am	HOT BREAKFAST BUFFET in Exhibit Hall ( <i>Dauphin Ballroom</i> )			
8:00am-9:15am	Working with Small Communities: Starting with a Plan <i>Susquehanna</i>	Using Technology to Improve the SEO Workflow <i>East Derry</i>	Dealing with Septic Systems Post-Disaster <i>West Derry</i>	8:00am-4:00pm  Installation Course ...continued  (must be pre-registered)  <i>Amphitheater</i>
9:15am-9:45am	Break in Exhibit Hall ( <i>Dauphin Ballroom</i> )			
9:45am-11:00am	Introduction to Nitrogen Treatment <i>Susquehanna</i>	Introduction to Pressurized UV Lights <i>East Derry</i>	Tank Buoyancy and Anti-Flotation Measures <i>West Derry</i>	
11:15am-12:00pm	PASEO ANNUAL MEMBERS MEETING ( <i>Pennsylvania Ballroom</i> )			
12:00pm-1:00pm	LUNCH BUFFET in Exhibit Hall ( <i>Dauphin Ballroom</i> )			
1:00pm-2:00pm	Closing Plenary Sessions: TBA ( <i>Pennsylvania Ballroom</i> )			Installation Course ...continued
2:00pm-3:30pm	Closing Plenary Session: PA DEP Question & Answer Panel Discussion ( <i>PA Ballroom</i> )			

**DON'T FORGET** to Return Your Attendance Documentation Form to the Registration Desk Before You Leave.



# 2023 Annual Conference Presentation Summaries

**Mon, March 13, 2023**

## MORNING SESSIONS

**Opening Keynote –  
Deeping Professionalism in the Onsite  
Treatment Industry**  
*David Gustafson, University of  
Minnesota*

Working with wastewater can always be looked at as last chance opportunity. In typical media representations our Industry is typically part of a comedy routine. But we know that all of that is not the facts. Working hard to become a represented long-term professional solution for wastewater infrastructure is a critical discussion for all of us to have and make real for our customers and stakeholders. This issues and steps that can be applied locally will be the focus of this discussion.

**Professional Maintenance for the Onsite  
Systems: Working in Tanks**  
*David Gustafson, University of  
Minnesota*

All systems need care and management. Looking at these processes for systems is critical. Understanding the operation and maintenance of a septic tank and evaluating the sewage coming into the tank will be the focus of this discussion.

**What makes Pennsylvania's Soil so  
Difficult? - Exploring the reasons behind  
the complexity of soils in the Keystone  
State**  
*Russ Losco, Lanchester Soil Consultants*

Pennsylvania is blessed, or cursed, with an incredible variety of soil and site conditions. When working in one geographical area, it is easy to get used to the soils found there. But sometimes, simply moving from one valley to

another, or from the valley floor to a footslope can bring you in contact with soils of a vastly different nature. Moving from one region to another or one end of the state to another can mean vastly dissimilar soil and the need for differing approaches. In this session we will try to explore the complex origins of the wide variety of soil in Pennsylvania.

**State Ethics for Regulatory SEOs**  
*Mary Fox, Executive Director, State  
Ethics Board*

Attend this unique session taught by State Ethics Board staff. The Ethics Act states that public office is a public trust. Efforts to realize financial gain through public office or employment other than compensation provided by law is a violation of that trust. In this presentation, learn what the Ethics Act is and how the State Ethics Commission enforces it, review some of the most-frequently violated Ethics Act provisions, and discover how to spot a potential problem so you can stay on the right side of the Ethics Act.

## AFTERNOON SESSIONS

**Professional Installation Practices for  
Soil treatment Areas**  
*David Gustafson, University of  
Minnesota*

Installing the system properly is the key for that system to perform long-term. Discussing the principles of good installation is helpful as we are all looking to create the best solution for decentralized wastewater infrastructure.

**Preparing Septic Owners in the Age of  
Floods**  
*Jennifer Fetter & Andy Yench, Penn  
State Extension Water Resources  
Educators*

SEO's must routinely educate property owners on how they can best dealing with flooding issues and their onsite wastewater systems. Attendees will learn preventative steps to protect a system; steps to take immediately prior to a flood event; what to do during a flood; how to recover a system after the flood; as well as assessing any damage and/or contamination issues. This session will provide you with the tools necessary for you to explain flooding concerns to residents within your jurisdiction.

**Sewage Law Potpourri**  
*Martin Seigel, Barley Snyder*

This session will include an update of recent sewage-related legal developments over the past year, including actions by courts and DEP. Other issues, such as the importance of updating fee structures and private ownership of sewage facilities will also be addressed.

**Professional System Design and Layout**  
*David Gustafson, University of  
Minnesota*

The beginning of a system is the proper design & layout of that system. Having the information for those decisions is a key to the system meeting the expected performance for performance and operation. Evaluating and communicating those key aspects of layout and design is an essential step for maximizing success of system life and performance.

**Small Flow Treatment Facilities**  
*Adam Browning, Penn's Trail  
Environmental*

This session is intended to identify when and where Small Flow Treatment Facilities can be used and how they are permitted by the PADEP. We will dive into the Act 537 Component 3s Module

# 2023 Annual Conference Presentation Summaries

requirements, NPDES Permitting requirements and processes as well as the Water Quality Management or construction permitting process associated with the installation of a SFTF or Single Residence Sewage Treatment Plant. We will also explore different treatment options and how they affect the permitting process as well as what to expect from an operational compliance standpoint.

## **Effluent Filters and Septic Tank Safety** *Patrick Mulhall, Polylok*

This session will cover the basics of effluent filters and the importance of septic tank safety. Participants will learn about filters, the role they play in maintaining a healthy septic system, filter regulations, and the risks of not using filters. We will discuss two separate case studies and the benefits of effluent filters. The second half of the session will focus on septic tank safety and homeowner education. Having a safe septic tank is priceless. We will review the risks of an unsafe tank and discuss the importance of education to achieve the safest environment possible, even when regulations don't require it.

**Tue, March 14, 2023**

## **MORNING SESSIONS**

### **Working with Small Communities: Starting with a Plan** *David Gustafson, University of Minnesota*

Small communities and groups of families are constantly facing the problem of what to do to solve the wastewater infrastructure issue. Are decentralized the right choice, should we move to a municipal solution or are there other

choices? This discussion will explore and introduce a plan to help evaluating the choices and creating a community solution that is understandable and sustainable.

### **Dealing with Septic Systems Post-Disaster** *Walter Schneider, Centre Region Code Administrators*

In the Commonwealth of Pennsylvania, there is a potential for all types of disasters to occur. This program addresses concerns for a septic system post-disaster to include dealing with fires, floods, and earthquakes. Short-term and long-term operational conditions for onsite wastewater systems will be discussed.

### **Using Technology to Improve the SEO Workflow** *Mike Callahan, SoilHub*

Technology impacts many aspects of a SEO's job and the on-site industry in general. This session will look at some computer-based tools for managing site evaluations, report generation, and septic system design and layout. We'll discuss options for using these tools in the field and how to integrate with handwritten data sheets. Finally, we'll discuss processes to organize projects and sharing projects across disciplines.

### **Introduction to Nitrogen Treatment** *David Gustafson, University of Minnesota*

Treating wastewater is one of the priorities for determining system choices. Treating Nitrogen takes a little knowledge and understanding of the treatment processes and their applications is critical for this to happen in the installed technologies and systems.

### **Introduction to Pressurized UV Lights** *Oran Biehl, Premier Tech Water and Environmental*

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).

### **Tank Buoyancy and Anti-Flotation Measures** *Cody Vigil, Infiltrator Water Technologies*

An important consideration in the installation of septic, pump, or holding tanks is the risk of flotation due to the presence of groundwater above the bottom of the tank. The goal of this presentation is to prompt regulators, designers, and installers to think about buoyancy for the installation of any tank installation. When a rigid object such as an empty septic, pump, or holding tank is partially or fully submerged in groundwater, an upward force is exerted on the object that is equal to the weight of the displaced groundwater. This presentation will develop two very simple models for evaluating buoyant force. Engineering controls, such as ballast systems, concrete pads, and helical anchors and associated best installation practices are evaluated. This presentation will include a discussion of Archimedes' principle, basic geotechnics of buried tanks, uplift forces, buoyancy control function, and buoyancy control best practices.

# 2023 Annual Conference Presentation Summaries

## AFTERNOON SESSIONS

### Closing Keynote Session:

TBA

### Closing Plenary Session: PA DEP Q&A Panel Discussion

*PA DEP Staff, Moderated by Joe Valentine*

Learn the latest news affecting SEOs in Pennsylvania and the Act 537 Program. Have representatives from Pennsylvania's Department of Environmental Protection offices answer your questions in a moderated panel format.

*\*\*All sessions and training courses are subject to change. \*\**

## TRAINING COURSES

Sun, March 12, 2023

### Troubleshooting Onlot Systems

*Roger Lehmann, All County and Assoc*

*& Jeff Winkle, Middlesex Township*  
DEP Training Course # 1002INVT-0087CLRM; 9 SEO CEUs

This course will walk students through the process of investigating a potential malfunction up to the point of identifying the underlying cause(s). There will be a brief discussion on how to resolve common types of malfunctions in general terms, but will not focus on resolving malfunctions in any detail. Student must pass posttest to receive course CE credits.

Sun, March 12, 2023

### Orenco Advantex Treatment System

*Brent Hershey, Tri-County Water Svcs*

DEP Training Course #1001TECH-0087CLRM; 6 SEO CEUs

The objective of this course is to familiarize SEOs with the Orenco AdvanTex treatment system. This

alternate classification permits the use of the AdvanTex as a treatment system used for the specific purposes of reducing BOD5, TSS, and total nitrogen in the sewage effluent prior to discharge to an absorption area.

Mon & Tue, March 13 & 14, 2023

### Installation of Onsite Wastewater Treatment Systems

*Roger Lehmann, All County and Assoc & Bruce Fox, Allstate Septic*

DEP Training Course ID #1001INST-0087CLRM, 12 SEO CEUs

This 2-day 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.

*Space is limited in all training courses. Sorry, no walk-ins.*



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## Notes

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# About PASEO

## HISTORY

The PA Association of Sewage Enforcement Officers was established in 1986 by sewage enforcement officers from across the Commonwealth. PASEO's founders felt a need for interaction and cooperation among the many SEOs and between the organization and the PA Department of Environmental Protection (then DER).

Our founders' goals are now the Bylaws-

- ▶ Encourage and maintain the highest standards of professional ethics and practices;
- ▶ Sponsor and promote educational programs for members and others;
- ▶ Provide a forum for the exchange of info; and,
- ▶ Act on behalf of members in connection with proposals concerning SEOs

## FRAMEWORK

PASEO has grown from an idea shared by a handful of SEOs with diverse professional and vocational backgrounds to a vibrant and growing organization. Our membership is organized into six regional chapters with each region corresponding to a PADEP region. This has enabled and fostered a communication link between PADEP and the Association.

Each chapter elects officers, sponsors training programs, and maintains a liaison and dialogue with the PADEP staff in its region. Every chapter selects two Directors.

At the annual meeting, the membership elects the officers who serve for 2-year terms. The Regional Directors and the Officers, who together constitute the Board of Directors (the Board), select and initiate activities and programs on behalf of the members. Association policy goals may be set by the

Board or the membership. From the membership, policy goals may be proposed as resolutions. A resolution embodies a proposal which a chapter has considered, adopted, and forwarded to the state Association. At the annual meeting, the members consider and vote on resolutions from all chapters. Those that are adopted become PASEO policy goals.

## PROGRAMS

Through its newsletter, the REPORTER, the Association communicates with the members, the PADEP, and every member of the General Assembly. Members can keep abreast of Association happenings by visiting the PASEO website at [pa-seo.org](http://pa-seo.org).

Direct conversations in every region bring PADEP and PASEO to closer understanding of the Act 537 program and the other's perspective.

PASEO is an active member of the PADEP Sewage Advisory Committee, having been appointed by the Secretary of Environmental Protection.

PASEO's annual conference is the premier educational opportunity for sewage enforcement officers. Members attend at a discounted rate.

## MEMBERSHIP

Every certified SEO is welcome into PASEO's membership. PASEO lets you get involved to make a difference.

Health officers, engineers, planners, sewage system contractors, students, and anyone having interest in the work of sewage enforcement officers may become Associate Members.

Individuals or companies having a financial or proprietary interest in the profession of sewage enforcement and who supports the activities and the code of ethics of the Association may join as Sustaining Members.



Pennsylvania Association of Sewage Enforcement Officers  
4902 Carlisle Pike #268  
Mechanicsburg, PA 17050  
(717) 761-8648 | [www.PA-SEO.org](http://www.PA-SEO.org)