



The Pennsylvania Association of  
SEWAGE ENFORCEMENT OFFICERS

# 2023 ANNUAL CONFERENCE & TRADE SHOW

"Where Professionals Go For Education"

Thank you Gold Sponsors:



**Schwarr  
Industries**



Annual Conference  
March 12-14, 2023  
Harrisburg, PA

Western Conference  
March 20-21, 2023  
Monroeville, PA

REGISTER ONLINE at [PA-SEO.org](http://PA-SEO.org)

✉ 4902 Carlisle Pike #268, Mechanicsburg, PA 17050  
☎ (717) 761-8648  
🌐 [www.PA-SEO.org](http://www.PA-SEO.org)

# 2023 PASEO Annual Conference & Trade Show:



## Annual Conference & Trade Show

March 12-14, 2023

Red Lion Hotel, Harrisburg PA

## Western Conference & Trade Show

March 20-21, 2023

DoubleTree by Hilton, Monroeville PA

*Register Online Today at [www.PA-SEO.org](http://www.PA-SEO.org)*

Each year PASEO hosts Pennsylvania's premier Conference and Trade Show for sewage enforcement officers. Past attendance has **exceeded 200 attendees** who participated in numerous educational sessions and networked with onsite wastewater manufacturers and service providers. PASEO invites you to attend this year's in-person conference in 2023!

This year's **Annual Conference** will be held on **March 12-14, 2023**, at the Red Lion Hotel, 4751 Lindle Road, Harrisburg, PA. **Don't pass up this opportunity to network with hundreds of SEOs all in one place!** We have applied to PADEP for 4 SEO continuing education credits for the Annual Conference break-out sessions.

Optional SEO Training Courses will be offered **BEFORE the Annual Conference** allowing you to maximize your CE credits during your attendance for only a **modest additional charge**.

Additionally, the **Installation of Onsite Wastewater Systems Training Course** (12 SEO credits) will be offered to Annual Conference attendees on **Monday-Tuesday** at no additional charge!

You will earn SEO credits based upon what you attend (break-out sessions and/or training courses). SEO credits for break-out sessions are awarded at a rate of one credit per half-day of sessions attended.

PASEO is again offering a **Western Conference** on **March 20-21, 2023**. We have expanded the western event to **TWO DAYS!** This conference will provide SEOs from the western part of the state an opportunity to network with peers closer to home. It will be held at the DoubleTree by Hilton Hotel, 101 Mall Blvd, Monroeville, PA 15146.

Instead of offering conference break-out sessions, we will be offering two separate tracks of SEO training courses on Monday and Tuesday at the Western Conference. This will allow you to earn up to 6 SEO continuing education credits for each day!

Space is limited to 40 participants for all training courses (at both conferences). Register early before we sell out! (Check the PASEO website to confirm spots are still available.)

**Register online today at [PA-SEO.org](http://PA-SEO.org) -- you can opt to pay by check or credit card!**

Or, complete the enclosed registration form and mail it along with your payment to: PASEO, 4902 Carlisle Pike #268, Mechanicsburg, PA 17050.

**The Early Bird Discount Deadline is March 1st; registration closes on March 9th.**

For more info, call (717) 761-8648 or visit us online at [www.PA-SEO.org](http://www.PA-SEO.org).



## HOW TO USE THIS FORM

Please TYPE or PRINT

**A. REGISTER FOR THE CONFERENCE(S)** using Section (A) of this form. There are no "single day" registrations available. Additional Monday Dinner Tickets are available in advance if you'd like to bring a guest. Take advantage of the **early bird registration (postmarked by 3/1/23)** and save. **Registration closes 3/9/23.**

**B. PRE-REGISTER FOR THE WORKSHOP SESSIONS AND/OR TRAINING COURSES** using Section (B) on page two of this form. Follow the instructions to indicate your preferred workshop sessions and/or training courses in each concurrent session time period. Annual Conference - you must register for the full conference to add-on training courses to your registration. Western Conference - you can register/pay course by course. Space is limited to 40 students per all training course. Breakout sessions and training courses are subject to change.

**C. SUBMIT REGISTRATION FORM & PAYMENT:** Complete the entire registration form. Use a separate form for each attendee. Conference fees may be paid by credit card, money order or check made payable to PASEO. If paying by credit card, please register online at [www.PA-SEO.org](http://www.PA-SEO.org). Pay the registration fee that is in effect on the date your registration materials are postmarked. Send the completed 2-page registration form along with your payment to: PASEO, 4902 Carlisle Pike #268, Mechanicsburg, PA 17050.

**D. ONLINE REGISTRATION:** You may also register online & make payment by credit card or check at [www.PA-SEO.org](http://www.PA-SEO.org).

## CONFERENCE REGISTRATION FORM

## ▶ A. CONFERENCE REGISTRATION

SEO# \_\_\_\_\_ Name: \_\_\_\_\_

Company or Township \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Daytime phone: \_\_\_\_\_ Email: \_\_\_\_\_

(if possible, please use the email associated with your Clean Water Academy account)

## PASEO MEMBERSHIP

- ☐ I am a member of PASEO and have already paid my 2023 dues
- ☐ I am a member of: ☐ PSMA, ☐ POWRA, or ☐ PAPSS and eligible for the Member Discounts below
- ☐ Please add my PASEO membership for 2022 (add \$125) - eligible for Member Discounts below \$ \_\_\_\_\_

## REGISTRATION FEES

	PASEO MEMBER DISCOUNT	REGISTRATION FEE (non-mbrs)	
<b>ANNUAL CONF (Mar. 13-14th): Early Bird Fee by thru 3/1</b>	<input type="checkbox"/> \$ 325	<input type="checkbox"/> \$ 450	\$ _____
<b>ANNUAL CONF (Mar. 13-14th): Standard Fee</b>	<input type="checkbox"/> \$ 370	<input type="checkbox"/> \$ 495	\$ _____
<b>ANNUAL CONF -- SUNDAY (Mar. 12th ADD-ON TRAINING COURSES: (Must also be registering for the Annual Conference to add)</b>			
Troubleshooting Onsite Systems (9 SEO credits)	<input type="checkbox"/> \$ 135	<input type="checkbox"/> \$ 180	\$ _____
Orenco Advantex Treatment Systems (6 SEO credits)	<input type="checkbox"/> \$ 90	<input type="checkbox"/> \$ 120	\$ _____
<b>ANNUAL CONF: Add'l Mon. Dinner Tickets (for your guests)</b>	<input type="checkbox"/> \$ 60 x # of tickets _____	=	\$ _____
<b>WESTERN CONF (register &amp; pay by training course):</b>			
Enforcement I (7.5 SEO credits) (Mar. 20th)	<input type="checkbox"/> \$ 225	<input type="checkbox"/> \$ 260	\$ _____
Orenco Advantex Treatment Systems (6 credits) (Mar 20th)	<input type="checkbox"/> \$ 180	<input type="checkbox"/> \$ 210	\$ _____
Enforcement II (7.5 SEO credits) (Mar. 21st)	<input type="checkbox"/> \$ 225	<input type="checkbox"/> \$ 260	\$ _____
Troubleshooting Onsite Systems (9 SEO credits) (Mar. 21st)	<input type="checkbox"/> \$ 270	<input type="checkbox"/> \$ 315	\$ _____

**TOTAL DUE \$** \_\_\_\_\_

Make check payable to PASEO or register & pay by credit card online at [www.PA-SEO.org](http://www.PA-SEO.org).  
Don't forget to pre-register for the workshops on page 2. Mail this completed 2-page registration form with payment to: PASEO, 4902 Carlisle Pike #268, Mechanicsburg, PA 17050.

OVER ⇨

## ► B. WORKSHOP SESSION REGISTRATION

Indicate your workshop/training course preferences for each time slot by checking the box (✓) next to your desired topics. *There is an extra charge to register for SUNDAY training courses held at the Annual Conference.*

2023 ANNUAL PASEO CONFERENCE & TRADE SHOW				
<b>SUNDAY - March 12 - OPTIONAL ADD-ON COURSES (extra fees apply)</b>				
9:00am	<input type="checkbox"/> Troubleshooting Onsite Systems DEP Course ID# 214.10-0087 (9 SEO credits) 9:00am-4:30pm		<input type="checkbox"/> Orenco Advantex Treatment Systems DEP Course ID# 1001TECH-0087CLRM (6 SEO credits) 9:00am-4:30pm	
<b>MONDAY - March 13</b>				
9:00am	<input type="checkbox"/> Opening Keynote - Deepening Professionalism in the Onsite Treatment Industry			
10:45am	<input type="checkbox"/> Professional Maintenance for the Onsite Systems: Working in Tanks	<input type="checkbox"/> What makes Pennsylvania's Soil so Difficult?	<input type="checkbox"/> State Ethics for Regulatory SEOs	<input type="checkbox"/> Installation of Onsite Wastewater Treatment Systems Training Course DAY 1 of 2 (#1001INST-0087CLRM) (12 SEO credits) (no extra charge)
2:00pm	<input type="checkbox"/> Professional Installation Practices for Soil treatment Areas	<input type="checkbox"/> Preparing Septic Owners in the Age of Floods	<input type="checkbox"/> Sewage Law Potpourri	
3:45pm	<input type="checkbox"/> Professional System Design and Layout	<input type="checkbox"/> Small Flow Treatment Facilities	<input type="checkbox"/> Effluent Filters and Septic Tank Safety	
<input type="checkbox"/> Yes, I plan to stay for the buffet dinner reception on Monday evening; <input type="checkbox"/> No, I won't be staying				
<b>TUESDAY - March 14</b>				
8:00am	<input type="checkbox"/> Working with Small Communities: Starting with a Plan	<input type="checkbox"/> Dealing with Septic Systems Post-Disaster	<input type="checkbox"/> Using Technology to Improve the SEO Workflow	<input type="checkbox"/> Installation of Onsite Wastewater Treatment Systems Training Course DAY 2 of 2 (#1001INST-0087CLRM) (12 SEO credits) (no extra charge)
9:45am	<input type="checkbox"/> Introduction to Nitrogen Treatment	<input type="checkbox"/> Introduction to Pressurized UV Lights	<input type="checkbox"/> Tank Buoyancy and Anti-Flotation Measures	
1:00pm	<input type="checkbox"/> Closing Plenary Session: Update from PA Senate's Environmental Resources Committee			
2:00pm	<input type="checkbox"/> Plenary Session: PA DEP Question & Answer Panel Discussion			
<b>2023 WESTERN PASEO CONFERENCE &amp; TRADE SHOW</b>				
<b>MONDAY - March 20</b>				
8:30am	<input type="checkbox"/> Enforcement I (#1005SMGT-0087CLRM) (7.5 SEO credits) (8:30am-4:30pm)		<input type="checkbox"/> Orenco Advantex Treatment Systems DEP Course ID# 1001TECH-0087CLRM (6 SEO credits) 8:30am-4:30pm	
1:00pm				
<b>TUESDAY - March 21</b>				
8:30am	<input type="checkbox"/> Enforcement II (#2001SMGT-0087CLRM) (7.5 SEO credits) (8:30am-4:30pm)		<input type="checkbox"/> Troubleshooting Onsite Systems DEP Course ID# 214.10-0087 (9 SEO credits) 8:30am-4:30pm	
1:00pm				



# SEO Training Courses Offered

Attendees at both the Annual and Western Conference can take DEP-approved SEO training courses to maximize their acquisition of continuing education credits. Pre-registration is required for ALL training courses - no walk-in's can be accommodated. Space is limited to the first 40 registrants per class. Additional fees may apply (refer to registration form for costs).

## TRAINING COURSE DESCRIPTIONS

### **INSTALLATION OF ONSITE WASTEWATER SYSTEMS**

Monday, March 13th & Tuesday, March 14th (both days) - Annual Conference  
DEP Training Course ID #1001INST-0087CLRM, 12 SEO CEUs

The PASEO/PSMA Installation of Onlot Wastewater Systems training course is being offered concurrently during the Western Conference on Monday & Tuesday. If you opt to register for this training course, you will attend the two-day course instead of the various other training courses. 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.

### **TROUBLESHOOTING ONSITE SYSTEMS**

Sunday, March 12th - Annual Conference  
Tuesday, March 21st - Western Conference  
DEP Training Course #214.10-0087  
9 SEO CEUs (6 for classroom, 3 for required posttest)

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. Topics addressed include: Unresolved Regulatory Malfunctions; Basic Investigation; Background Investigation; Technical Investigations (Building Sewers, Treatment, Distribution, Absorption Area). **This course includes a six credit hours of classroom instruction as well as a required online posttest worth three credit hours for a total of nine SEO credits. Student must pass posttest to receive course CE credits.**

### **ORENCO ADVANTEX TREATMENT SYSTEMS FOR SEOs**

Sunday, March 12th - Annual Conference  
Monday, March 20th - Western Conference  
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. The course will focus primarily on reviewing the Orenco AdvanTex alternate classification listing. Upon completion of this course, SEOs will have independent permitting authority for this alternate technology.

### **ENFORCEMENT I**

Monday, March 20th - Western Conference  
DEP Training Course #1005SMGT-0087CLRM  
7.5 SEO CEUs (6 for classroom; 1.5 for required posttest)

This course will define the term "enforcement" as it is used in the Sewage Facilities Act and the regulations. It will review a range of available enforcement actions and the most appropriate times or circumstances to use them. Attendees will learn the appropriate role of the SEO and others involved in enforcement actions as well as receive helpful tips, tools, and resources to assist SEOs in the enforcement process. This course will use real-life examples of how enforcement actions can be applied to actual SEO situations. This course was not designed to debate the legal issues or ethics of sewage enforcement. It is simply a hands-on, nuts-and-bolts course designed to familiarize SEOs with the procedures and paperwork required to uphold the enforcement aspects of their jobs. **This course includes a six credit hours of classroom instruction as well as a required online posttest worth one and one-half credit hours for a total of seven and one-half SEO credits.**

### **ENFORCEMENT II**

Tuesday, March 21st - Western Conference  
DEP Training Course #2001SMGT-0087CLRM  
7.5 SEO CEUs (6 for classroom; 1.5 for required posttest)

This course will: Review a range of available enforcement actions and the most appropriate times or circumstances to use them; Explain the role of the SEO and others involved in enforcement actions; Provide helpful tips, tools, and resources to assist SEOs in the enforcement process; Use real-life examples of how enforcement actions can be applied to actual SEO situations; Discuss SEO-related aspects of the legal process, such as obtaining warrants, gathering evidence, testifying, providing documentation to a court of law, filing necessary paperwork, requesting assistance from police or others, and building a solid case. This course was not designed to debate the legal issues or ethics of sewage enforcement. It is simply a hands-on, nuts-and-bolts course designed to familiarize SEOs with the procedures and paperwork required to uphold the enforcement aspects of their jobs. **This course includes a six credit hours of classroom instruction as well as a required online posttest worth one and one-half credit hours for a total of seven and one-half SEO credits.**

### **NOTES ABOUT THE TRAINING COURSES:**

The **Installation Course** is offered at the Annual Conference at no additional charge -- you will be able to participate in all the conference activities, meals, etc. The **Sunday courses** at the Annual Conference are optional -- however, you must be registered for the conference to add them -- lunch is on your own on Sunday. The courses at the **Western Conference** are sold al-a-cart.

**FOR A FULL DESCRIPTION OF THE BREAKOUT SESSIONS, PLEASE REFER TO THE ONLINE VERSION OF THIS BROCHURE ON PASEO'S WEBSITE PA-SEO.ORG**

*Register Online Today at [www.PA-SEO.org](http://www.PA-SEO.org)*

# PENNSYLVANIA ASSOCIATION of SEWAGE ENFORCEMENT OFFICERS

## 2023 PASEO CONFERENCE & TRADE SHOW – TRAINING COURSES & BREAKOUT SESSION DESCRIPTIONS

March 12-14, 2023 | Harrisburg, PA

March 20-21, 2023 | Monroeville, PA

### HARRISBURG

#### Sunday, March 12, 2023

---

##### Optional Training Course Add-on – Troubleshooting Onlot Systems

*Roger Lehmann, All County and Associates*

*Jeff Winkle, Middlesex Township*

DEP Training Course #214.10-0087; 9 SEO CEUs (6 for classroom, 3 for required posttest)

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. Topics addressed include: Unresolved Regulatory Malfunctions; Basic Investigation; Background Investigation; Technical Investigations (Building Sewers, Treatment, Distribution, Absorption Area). This course includes a six credit hours of classroom instruction as well as a required online posttest worth three credit hours for a total of nine SEO credits. Student must pass posttest to receive course CE credits.

##### Optional Training Course Add-on – Orenco Advantex Treatment System for SEOs

*Brent Hershey, Tri-County Water Services*

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. The course will focus primarily on reviewing the Orenco AdvanTex alternate classification listing. Upon completion of this course, SEOs will have independent permitting authority for this alternate technology.

#### Monday, March 13, 2023 & Tuesday, March 14, 2023

---

##### Training Course Track – Installation of Onsite Wastewater Treatment Systems (2 days)

*Roger Lehmann, All County and Associates*

*Bruce Fox, Allstate Septic Systems*

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

The PASEO/PSMA Installation of Onlot Wastewater Systems training course is being offered concurrently during the Annual Conference on Monday & Tuesday. If you opt to register for this training

course, you will attend the two-day course instead of the various other 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.

## **Monday, March 13, 2023**

---

### **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.

### **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*

SEOs 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



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*

Description: 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.

**Tuesday, March 14, 2023**

---

## **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.

## **Closing Keynotes: Update from PA's Environmental Resources Committee**

*(INVITED) PA State Senator Gene Yaw, Chair of Environmental Resources & Energy Committee*

State Sen. Gene Yaw (R-23) was reappointed to serve as chairman of the Senate Environmental Resources and Energy Committee for the 2023-24 legislative session. Yaw has served as chairman of the committee since 2013. The Environmental Resources and Energy Committee has broad jurisdiction over the state's energy resources and development, including regulations and conservation efforts; initiatives related to public lands and their renewable resources; policies affecting surface mining, coal, oil, and gas, and mineral leasing; and broad oversight of air and water resources. Sen. Yaw has been invited to address conference attendees to provide an update on the Committee's activities. *(Participation confirmation pending.)*

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

*PA DEP Staff, Moderated by Joe Valentine*

Learn the latest news affecting SEOs in Pennsylvania directly from the Department. Have representatives from Pennsylvania's Department of Environmental Protection offices answer your questions in a moderated roundtable format.

## **MONROEVILLE**

**Monday, March 20, 2023**

---

### **Training Course – Enforcement I**

*Roger Lehmann, All County and Associates*

DEP Training Course #1005SMGT-0087CLRM; 7.5 SEO CEUs (6 for classroom; 1.5 for required posttest)

This course will define the term “enforcement” as it is used in the Sewage Facilities Act and the regulations. It will review a range of available enforcement actions and the most appropriate times or circumstances to use them. Attendees will learn the appropriate role of the SEO and others involved in enforcement actions as well as receive helpful tips, tools, and resources to assist SEOs in the enforcement process. This course will use real-life examples of how enforcement actions can be applied to actual SEO situations. This course was not designed to debate the legal issues or ethics of sewage enforcement. It is simply a hands-on, nuts-and-bolts course designed to familiarize SEOs with the procedures and paperwork required to uphold the enforcement aspects of their jobs. This course includes a six credit hours of classroom instruction as well as a required online posttest worth one and one-half credit hours for a total of seven and one-half SEO credits.

### **Training Course – Orenco Advantex Treatment System for SEOs**

*Brent Hershey, Tri-County Water Services*

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. The course will focus primarily on reviewing the Orenco AdvanTex alternate classification listing. Upon completion of this course, SEOs will have independent permitting authority for this alternate technology.

**Tuesday, March 21, 2023**

---

### **Training Course – Enforcement II**

*Roger Lehmann, All County and Associates*

DEP Training Course #2001SMGT-0087CLRM; 7.5 SEO CEUs (6 for classroom; 1.5 for required posttest)

This course will: Review a range of available enforcement actions and the most appropriate times or circumstances to use them; Explain the role of the SEO and others involved in enforcement actions; Provide helpful tips, tools, and resources to assist SEOs in the enforcement process; Use real-life examples of how enforcement actions can be applied to actual SEO situations; Discuss SEO-related aspects of the legal process, such as obtaining warrants, gathering evidence, testifying, providing documentation to a court of law, filing necessary paperwork, requesting assistance from police or others, and building a solid case. This course was not designed to debate the legal issues or ethics of sewage enforcement. It is simply a hands-on, nuts-and-bolts course designed to familiarize SEOs with the procedures and paperwork required to uphold the enforcement aspects of their jobs. This course includes a six credit hours of classroom instruction as well as a required online posttest worth one and one-half credit hours for a total of seven and one-half SEO credits.

### **Training Course – Troubleshooting Onsite Systems**

*Jeff Winkle, Middlesex Township*

DEP Training Course #214.10-0087; 9 SEO CEUs (6 for classroom, 3 for required posttest)

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. Topics addressed include: Unresolved Regulatory Malfunctions; Basic Investigation; Background Investigation; Technical Investigations (Building Sewers, Treatment, Distribution, Absorption Area). This course includes a six credit hours of classroom instruction as well as a required online posttest worth three credit hours for a total of nine SEO credits. Student must pass posttest to receive course CE credits.

###

# Annual Conference & Trade Show

March 12-14, 2023

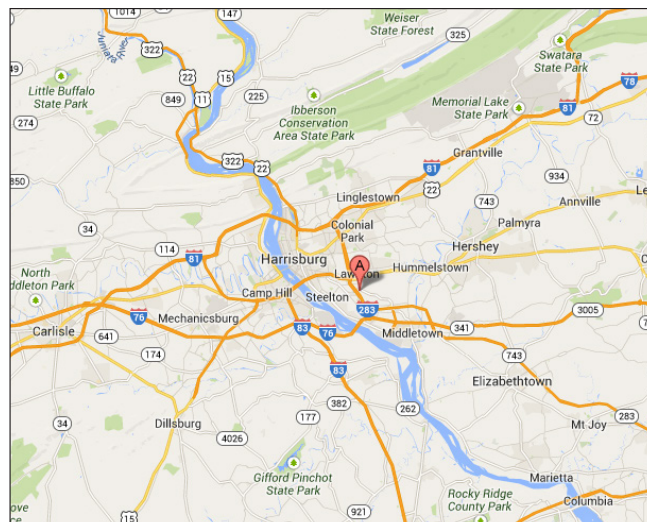
Red Lion Hotel

4751 Lindle Road, Harrisburg PA 17111

## Lodging Info:

PASEO attendees can take advantage of our discounted block room rate of \$100/night for a standard room at the Red Lion Hotel by mentioning the PASEO Conference while making reservations. Discount cut-off date is Feb. 25th. Reservations can be made by calling the hotel at (717) 939-7841 or toll free (800) 637-4817. **Group**

**Block Code: PASE0311** (the 0 is a zero not an "O").



## ANNUAL CONFERENCE SCHEDULE OF EVENTS

### SUNDAY - March 12

9:00am-4:30pm	Optional Add-on Sunday Training Courses
2:00pm-6:00pm	Exhibitor Move-in
2:00pm-4:30pm	Conference Registration Open
4:30pm-6:00pm	PASEO State Board Meeting - Open to all members
6:00pm-8:00pm	WELCOME RECEPTION - Appetizers & Cash Bar

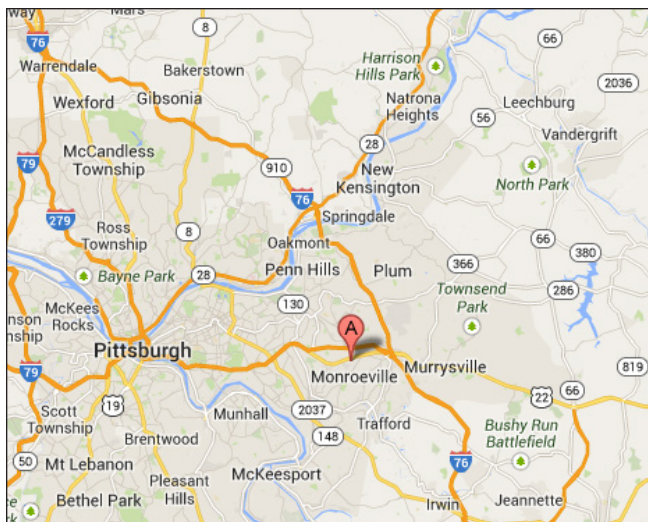
### MONDAY - March 13

8:00am-9:00am	Conference Registration Open & Continental Breakfast in Exhibit Hall
9:00am-10:15am	OPENING KEYNOTE SESSION
10:45am-12:00pm	Educational Break-out Sessions
12:00pm-1:00pm	Buffet Lunch in Exhibit Hall
1:15pm-2:00pm	PASEO REGIONAL CHAPTER MEETINGS
2:00pm-3:15pm	Educational Break-out Sessions
3:15pm-3:45pm	Break in Exhibit Hall
3:45pm-5:00pm	Educational Break-out Sessions
5:00pm-6:00pm	HAPPY HOUR RECEPTION in Exhibit Hall (Sponsored by Expert Septic LLC)
6:00pm-8:00pm	BUFFET DINNER, SOCIAL NETWORKING, & ENTERTAINMENT in Exhibit Hall

### TUESDAY- March 14

7:00am-8:00am	Hot Buffet Breakfast in Exhibit Hall
8:00am-9:15am	Educational Break-out Sessions
9:15am-9:45am	Break in Exhibit Hall
9:45am-11:00am	Educational Break-out Sessions
11:15am-12:00pm	PASEO ANNUAL MEMBERSHIP BUSINESS MEETING
12:00pm-1:00pm	Buffet Lunch in Exhibit Hall
1:00pm-2:00pm	CLOSING KEYNOTE SESSION
2:00pm-3:30pm	CLOSING SESSION: PADEP Question & Answer Session

**SAVE TIME & REGISTER ONLINE AT [www.PA-SEO.org](http://www.PA-SEO.org)**



## Western Conference & Trade Show

March 20-21, 2023

DoubleTree by Hilton

101 Mall Blvd, Monroeville PA 15146

### Lodging Info:

PASEO attendees can make overnight guest room reservation at the DoubleTree Hotel by calling (412) 373-7300. No room block has been set aside.

**Space is limited at the Western Conference.**

WESTERN CONFERENCE

## WESTERN CONFERENCE SCHEDULE OF EVENTS

### MONDAY - March 20

7:00am-8:00am	Exhibitor Move-in
8:00am-8:30am	Conference Registration Open & Continental Breakfast in Exhibit Hall
8:30am-12:00pm	Two Tracks of Training Courses
12:00pm-1:00pm	Buffet Lunch in Exhibit Hall
1:00pm-4:30pm	Two Tracks of Training Courses (continued)

### TUESDAY - March 21

8:00am-8:30am	Conference Registration Open & Continental Breakfast in Exhibit Hall
8:30am-12:00pm	Two Tracks of Training Courses
12:00pm-1:00pm	Buffet Lunch in Exhibit Hall
1:00pm-4:30pm	Two Tracks of Training Courses (continued)

**RECEIVE AN EARLY BIRD DISCOUNT ON YOUR ANNUAL CONFERENCE REGISTRATION IF POSTMARKED BEFORE 3/1/23**

**FOR A FULL DESCRIPTION OF THE BREAKOUT SESSIONS, PLEASE REFER TO THE ONLINE VERSION OF THIS BROCHURE ON PASEO'S WEBSITE PA-SEO.ORG**

### CANCELLATION/REFUND/RETURN POLICY

**CONFERENCE:** Conference registration fees may be paid by credit card or check, made payable to PASEO. When a written cancellation request is received by mail, fax or courier five or more days before the first day of the conference, a refund in the form of a voucher will be issued. The voucher will be equal to 50% of the amount paid. The voucher has no cash value. However, the voucher amount may be deducted from the subsequent year's conference registration fee. Cancellations received four or fewer days before the start of the conference event will not receive a voucher or other consideration. Substitutions can be made without charge.

**MEMBERSHIP:** Membership dues are non-refundable.

PASEO's Tax ID number is 23-2447868

PASEO's DEP Vendor ID is 652570





4902 Carlisle Pike #268  
Mechanicsburg, PA 17050  
(717) 761-8648

**Early Bird Discount Deadline is March 1st**



The Pennsylvania Association of  
**SEWAGE ENFORCEMENT OFFICERS**

**REGISTER ONLINE at [PA-SEO.org](http://PA-SEO.org)**

# **2023 ANNUAL CONFERENCE & TRADE SHOW**

Annual Conference  
March 12-14, 2023  
Harrisburg, PA

Western Conference  
March 20-21, 2023  
Monroeville, PA

**EARLY BIRD DISCOUNT Thru Mar 1st**

