

# PASEO Conference Registration Workshop Registration

*Please print.*

**Explanation:**

The top portion is to register for the conference. The lower portion is to register for the workshops. You must be registered for the conference to register for the workshops. A maximum capacity will be assigned to each workshop session. You are strongly encouraged to register in advance for the workshops. Seats not assigned in the preregistration process will be available on a first-come, first-served basis at the conference. At the conference registration desk, you will receive a schedule of your workshops based on the preferences you indicated on the registration form. Receipts for registration fees will be distributed at the conference. **Registrations will not be confirmed.**

**PAY FROM THIS FORM; NO OTHER INVOICE WILL BE PROVIDED. PURCHASE ORDERS WILL NOT BE PROCESSED.**

**Instructions:**

**Complete all parts of this form. Use a separate form for each attendee.**

**Send the completed form with your payment to: PASEO, #269 4902 Carlisle Pike, Mechanicsburg, PA 17050**

## PASEO Conference Registration

SEO # \_\_\_\_\_ Name \_\_\_\_\_ email \_\_\_\_\_  
 Address \_\_\_\_\_ Daytime phone \_\_\_\_\_  
 City State Zip \_\_\_\_\_ Fax \_\_\_\_\_

*PASEO Membership*

My dues  were paid previously.

This is a  renewal.  new membership.  My dues are enclosed. (\$65)

*Enter amount*

\$ \_\_\_\_\_

*Conference Fees* - There is no single-day registration. See cancellation and refund policies on conference flyer.

**MEMBER Registration**

Discount (Postmarked by 2/24/10) ----- \$175 \$ \_\_\_\_\_

Regular ----- \$185 \$ \_\_\_\_\_

**NONMEMBER Registration**

Discount (Postmarked by 2/24/10) ----- \$250 \$ \_\_\_\_\_

Regular ----- \$270 \$ \_\_\_\_\_

*Additional Monday Dinner Tickets (sold only in advance)* -----      **ADDITIONAL meal tickets @ \$35.00** \$ \_\_\_\_\_

**TOTAL ENCLOSED/Balance Due** ----- \$ \_\_\_\_\_

**FOR CREDIT CARD PAYMENTS, USE FORM IN THIS BROCHURE.**

PASEO's Tax ID number is 23-2447868



**I WAS RECRUITED by** \_\_\_\_\_ (print recruiter's name clearly)

Indicate your interest in onsite systems  Installer  Local Government Official  Building Code Official  Other

## Workshop Registration

Use this section to indicate up to three choices (1, 2, 3) for each time period (8:30 AM, 11:00 AM, etc.) in tables below. Every effort will be made to accommodate your selections, however, space is limited. In the past, everyone received their first preferences.

### Monday Education Events

8:30 AM	<input type="checkbox"/> Practical Uses of GPS (10-1) <small>Alan Roth, Mike Cannon</small>	<input type="checkbox"/> Organizing the SEO Office (10-2) <small>Michelle Poole, William Poole</small>	<input type="checkbox"/> Career Paths for SEOs (10-3) <small>Keith Hunnings, Roger Lehmann</small>
9:30 AM	<b>KEYNOTE ADDRESS - Getting Back to Basics in the 21st Century - Mark Gross</b>		
11:00 AM	<input type="checkbox"/> Evaluating - Managing Tank Pump-outs (10-4) <small>Bob Smith</small>	<input type="checkbox"/> Groundwater Nitrate Concentrations (10-5) <small>Paul White</small>	<input type="checkbox"/> Biomats & Absorption Areas (10-6) <small>Dennis Hallahan</small>
1:30 PM	<b>ANNUAL MEETING</b>		
2:00 PM	<input type="checkbox"/> Nitrification & Denitrification (10-7) <small>Mark Gross</small>	<input type="checkbox"/> Failing Systems In Pennsylvania (10-8) <small>Rick Day</small>	<input type="checkbox"/> Greenhouses & Wastewater Reuse (10-9) <small>Mike Zavoda</small>
4:00 PM	<input type="checkbox"/> Gravel and Chamber Longevity (10-10) <small>Mike Cory</small>	<input type="checkbox"/> Onsite Management Programs (10-11) <small>Michelle Poole</small>	<input type="checkbox"/> Cost of Sustainable Treatment (10-12) <small>Colin Bishop, Mike Sundberg</small>

### Tuesday Education Events

8:00 AM	<input type="checkbox"/> Using Soil Morphology (10-13) <small>Joe Valentine</small>	<input type="checkbox"/> Alternate Technology Update (10-14) <small>Panel</small>	<input type="checkbox"/> Working With Consultants (10-15) <small>Leonard Cornish, Jr., Greg Marshall</small>
10:00 AM	<input type="checkbox"/> High Strength Wastewater (10-16) <small>Michael Sundberg</small>	<input type="checkbox"/> Creative Onsite System Repairs (10-17) <small>Laurel Mueller</small>	<input type="checkbox"/> Planning Module Issues (10-18) <small>DEP Panel</small>

**Send form with payment to: PASEO, #269 4902 Carlisle Pike, Mechanicsburg, PA 17050**

# Education

Monday, March 8

## 4:00 PM Workshops

Select one of the following:

### Analysis of Gravel and Chamber

### Absorption Area Longevity in Maine (10-10)

This session will present the results of a study in Maine that evaluated the longevity of onsite system absorption areas. System evaluations were triggered by an application to replace an absorption area. Results gave insights into longevity of various absorption area configurations, reductions in absorption area sizing, and more. Participants will better understand the relationships between soil type and absorption area design and component selection.

**Mike Corry**, Consultant

### SEO Implemented Onsite System

### Management Program (10-11)

Learn how one SEO established and implemented an effective municipal maintenance program without breaking the township's budget or causing a public uprising. The session will present a summary of the ordinance's requirements, outline how the program works, discuss what's included in a typical inspection, and show how records are maintained.

**Michelle M. Poole**, SEO

### The True Cost of Sustainable Onsite

### Wastewater Treatment (10-12)

The installation, operation and maintenance costs of various onsite systems will be explored. The public and environmental health benefits and costs associated with these systems will also be discussed.

**Colin Bishop**, Bord Na Mona Environmental Products U.S., Inc.

**Mike Sundberg**, Bord Na Mona Environmental Products U.S., Inc.

## 5:00 PM Reception

## 6:30 PM Dinner

## Entertainment

# Education

Tuesday, March 9

## 7:00 AM Registration

## Lite Fare

## 8:00 AM Workshops

Select one of the following:

### Using Soil Morphology to Determine

### Wastewater Loading (10-13)

This workshop will explore the historical development and increasing use of soil morphologic based system loading in the US and PA. This will include the development and use of the Tyler Chart in PA and how hydraulic landscape and infiltration loading rates are determined. The future use of these methods will be explored.

**Joseph A. Valentine**, Soil Scientist, DeVal Soil & Environmental Consultants, Inc.

### Alternate Technology Update (10-14)

New alternate system listings are now posted on PADEP's website! This 2-part panel discussion will provide an overview of the PADEP Onlot Alternate Technologies website. Manufacturers representatives for the listed technologies: Orenco, Soil Air, American Manufacturing, Rissy Plastics, and Infiltrator, will provide key points about their respective alternate system listings. The panel will provide insights about the "Treatment Requirements" section noted on the alternate system website. Participant interaction in a Q&A format will be encouraged throughout the session.

### Panel Discussion

### Working With Consultants (10-15)

The roles of and relationships between the local agency SEO and an applicant's consultant will be explored. What decisions can and should the local agency SEO defer to the consultant? How is this delegation formalized, and what are the downsides of any delegation as the local agency SEO "owns" the final call? Bring your questions and insights to this thought-provoking session.

**Leonard F. Cornish, Jr.**, Pocono Soil and Environmental Consulting  
**Greg Marshall**, SEO, Owner, Environmental Design

## 9:30 AM Break

PASEO THANKS OUR PLATINUM SPONSOR



# Pennsylvania Association of Sewage Enforcement Officers

# 269 • 4902 Carlisle Pike • Mechanicsburg, PA 17050

717-761-8648 PA-SEO.org

## Credit Card Payment Authorization Instructions

- Enter the appropriate amounts for the desired transactions/purchases.
- Do any necessary addition and enter the total due/**Balance** where indicated.
- Complete the Credit Card Payment information box at the bottom of this sheet.
- Mail or fax (717-730-9300) the completed forms to PASEO.

For new or renewal memberships, materials and literature orders or conference registrations, one or more additional sheets may be necessary to provide detailed information regarding those transactions.

### Membership

New member dues (\$65)----- \$ \_\_\_\_\_  
Membership renewal (\$65)----- \$ \_\_\_\_\_

Merchandise & Literature ----- \$ \_\_\_\_\_

Conference or Exhibit Space ----- \$ \_\_\_\_\_

Total Due/ **BALANCE** (Amount will be billed to credit card below) ----- \$ \_\_\_\_\_

### Cancellation/Refund/Return Policies:

#### Conference and Exhibit Space -

When a written cancellation 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 will have no cash value, however, the face amount may be deducted from the conference registration fee for the subsequent year's conference. Cancellations received four or fewer days before the start of the event will not receive a voucher or other consideration. Substitutions can be made without charge.

Exhibit space if resold: \$40 processing fee plus all unrecoverable expenses are forfeited; balance may be applied to future conference or may be refunded.

**Membership** -There are no refunds for dues.

**Merchandise & Literature** -Merchandise and literature are nonrefundable; defective merchandise will be replaced at PASEO's expense.

### CREDIT CARD PAYMENT

#### ***All information* must apply to the CARD HOLDER**

I / we allow the above named organization to charge the Balance indicated above to this credit card:

Printed Name \_\_\_\_\_

Title \_\_\_\_\_

Street Address \_\_\_\_\_

City/St/Zip \_\_\_\_\_

Authorized Signature \_\_\_\_\_

Circle Card Type    **MASTERCARD**    **VISA**    **DISCOVER**

Card No \_\_\_\_\_

Expiration Date: \_\_\_\_ MM/YY

CVV # \_\_\_\_ (last three digits in the signature line on the back of your card)

Check here if you want a copy of the credit card transaction.

### OFFICE USE ONLY

Date rec'd \_\_\_\_/\_\_\_\_/\_\_\_\_

Date charged \_\_\_\_/\_\_\_\_/\_\_\_\_

Authorization \_\_\_\_\_

Processed by \_\_\_\_\_

# Overview

## Sunday, March 7

- 3:00 PM **Registration**
- 3:00 PM **PASEO Board Meeting**
- 6:00 PM **Exhibitor Sponsored Reception**

## Monday, March 8

- 7:00 AM **Registration Opens**  
**Continental Breakfast**
- 8:30 AM **Workshops** (Select ONE from list)
- 9:30 AM **Keynote Address**
- 10:30 AM **Exhibit Area Opens**  
**Break** - in the Exhibit Area
- 11:00 AM **Workshops** (Select ONE from list)
- 12:30 PM **Lunch** - in the Exhibit Area
- 1:30 PM **Annual Meeting**
- 2:00 PM **Workshops** (Select ONE from list)
- 3:30 PM **BREAK** - in the Exhibit Area
- 4:00 PM **Workshops** (Select ONE from list)
- 5:00 PM **Cash Bar & Reception** - in the Exhibit Area
- 6:30 PM **Dinner & Entertainment**

## Tuesday, March 9

- 7:00 AM **Registration Opens**  
**Exhibits Open**  
**Lite Fare** - in the Exhibit Area
- 8:00 AM **Workshops** (Select ONE from list)
- 9:30 AM **Break**
- 10:00 AM **Workshops** (Select ONE from list)
- 11:30 AM **Region Meetings**
- 12:30 PM **Luncheon & Speaker**
- 2:00 PM **Adjourn**

# Networking

## Sunday, March 7 6:00 PM - Reception

Meet and mingle with fellow SEOs and manufacturers' representatives in this informal social event sponsored by all conference exhibitors.



# Education

## Monday, March 8 8:30 AM Workshops

Select one of the following:

### Practical Uses of GPS for SEOs <sup>(10-1)</sup>

Learn practical techniques for using a handheld GPS unit to locate key site testing spots and system components. The functions and limitations of handheld units will be explored. Free and inexpensive software to download, store, and present the data will be discussed. Inexpensive GPS units can improve the documentation that is critical to SEOs' daily routine.

**Alan Roth**, GPS Consultant  
**Mike Cannon**, SEO

### Organizing the SEO Office in the Era of the Right to Know Law <sup>(10-2)</sup>

Participants will gain an understanding of the new PA Right To Know Law and how it affects municipalities, local agency SEOs, consultants, and the general public. Organizational ideas for the SEO office and its related records management responsibility will focus on how the local agency SEO can be a key person in implementing and facilitating the law.

**Michelle M. Poole**, SEO, Zoning and Building Permit Officer  
**William H. Poole, Jr.**, Esq., Partner, Miller, Poole & Lord, LLP

### Career Paths for SEOs <sup>(10-3)</sup>

Two SEOs will explore all of the career paths from which SEOs can select. Questions ripe for exploration include: "After certification, what's next?" "What skills should you have learned that you did not learn at the SEO Academy?" "Should I work for a local agency or become a consulting SEO?" In a lively Q&A segment, participants will get the speakers' advice on getting started in the field.

**Keith Hunnings**, SEO, Shaw Surveying, Inc.  
**Roger Lehmann**, SEO, All County and Associates, Inc.

# Education

**Monday, March 8**

**9:30 AM Keynote**

**Getting Back to Basics in the 21st Century**

**Mark Gross**, Ph. D., Training Manager, Orenco Systems, Inc.

**10:30 AM Break**

**11:00 AM Workshops**

Select one of the following:

**Evaluating and Managing Treatment Tank Pump-out Intervals** (10-4)

This session presents an empirical determination method for the evaluation and management of septic tank pumping intervals. Using a practical hands-on approach, participants will learn a process to quantify criteria to determine pumping intervals and cost-effective solutions for onsite management programs. The implications of mandatory pumping requirements, best practices and signs of success will be discussed.

**Bob Smith**, Systems Engineer, Orenco Systems, Inc.

**Long-term Effects of Onsite Systems on Groundwater Nitrate Concentrations** (10-5)

Scientific investigations have assessed the fate and transport of nitrate's migration in and through aquifers. One investigation hypothesized PADEP's method for evaluating the impact of onsite wastewater disposal systems significantly overestimates the expected increases in nitrate. This presentation explains the hypothesis and presents a summary of water quality data collected over a 10-25 year time period.

**Paul White**, P.G., Brickhouse Environmental

**Biomats and Absorption Area Failures** (10-6)

The biology of absorption areas' biomats and how biomats affect the vertical flow of effluent in various system configurations will be explained. Participants will learn how to recognize a healthy biomat and differentiate it from sludge layers or sludge mats. System failures related to biomats will be presented. Participants will gain insights for placing systems in a site's best suited area and taking advantage of that area's best attributes.

**Dennis Hallahan**, P.E., Technical Director, Infiltrator Systems, Inc.

**12:30 PM Lunch**

**1:30 PM Annual Meeting**

# Education

**Monday, March 8**

**2:00 PM Workshops**

Select one of the following:

**Nitrification & Denitrification**

**Demystified** (10-7)

This session explains the processes related to nitrification and denitrification of effluent that moves through onsite systems. Topics include the Nitrogen Cycle, nitrogen species of interest to wastewater specialists, biological removal of nitrogen, and the connection between nitrogen and onsite systems. Common misconceptions will be addressed.

**Mark Gross**, Ph. D., Training Manager, Orenco Systems, Inc.

**Lessons Learned From A Study of Failing Onsite Systems in PA** (10-8)

The presentation is based on the Center for Rural Pennsylvania's study of onsite system repairs, failure rates, causes of failures, and costs of repairs. Three key conclusions will be discussed: For tracking purposes, what can SEOs do to better clarify the nature of repairs? How can SEOs assist in further evaluations to examine the relationships between the formation of sewage management programs and onlot system repair rates? What further studies are needed to evaluate how nitrate levels are used by DEP to restrict onsite systems?

**Rick Day**, Penn State University

**Wastewater Greenhouses, Zero Discharge and Reuse** (10-9)

Discussion will focus on viable domestic wastewater reuse technologies for residential and small commercial applications. Participants will learn which systems have been approved for use in PA and also the permitting process in place under Act 537. Implementation of the Reuse of Treated Wastewater Guidance Manual (Jan 2009) will influence processing of future permit applications. Planning, design, construction, and operation and maintenance issues will be covered.

**Mike Zavoda**, Todd Ecological Design

**3:30 PM Break**

# Policies & Fees

ALL conference registration forms and fees must be sent to PASEO. You must be registered for the conference to attend the workshops at the conference. See detailed instructions on the form enclosed. Conference registrations and workshop assignments will not be confirmed in advance. At the conference you will receive a schedule of your workshops and a receipt for registration fees.

**SPACE IS LIMITED.** Only conference attendees with a workshop registration confirmation will be admitted. Workshop registration at the conference is possible until all available seats are exhausted.

Registration fees are listed on the registration form. Correct payment (check, money order or credit card) must accompany each registration. Registrations that are incomplete will be returned unprocessed.

You must pay the registration fee that is in effect on the date your registration materials are postmarked.

**PURCHASE ORDERS WILL BE RETURNED.** The registration form is your invoice. No other billing will be presented.

# Cancellations & Refunds

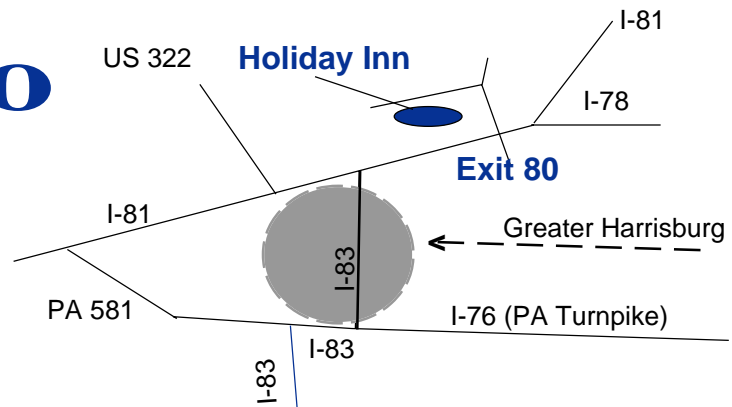
When a written cancellation is received by mail, fax or courier five or more days before the first day of the conference, a refund in the form of a voucher will be issued. The voucher will be equal to 50% of the amount paid.

The voucher will have no cash value, however, the face amount may be deducted from the conference registration fee for the subsequent year's conference. Voucher holders must submit the voucher with the following year's registration form.

Cancellations received four or fewer days before the start of the event will not receive a voucher or other consideration.


# Hotel Info

The Holiday Inn Grantville, PA is the site of this year's conference. The hotel is located adjacent to I-81 at Exit 80. Grantville is approximately 15 miles northeast of Harrisburg. You must make your own lodging reservation. All rooms at the Holiday Inn are \$86 per night for 1, 2, 3 or 4 occupants. If you require special accommodations, please notify the hotel. For hotel reservations and information call 717-469-0661. Reserve early to get the conference rate..



# Recruit an attendee!\*

**Members, recruit a local government official, code official or installer who registers for and attends the conference and you become eligible for a drawing for a valuable gift!**

See “ I WAS RECRUITED” on the registration form. For every recruited attendee, your chances of winning will improve.

\* excludes SEOs and current members.

# Education

**Tuesday, March 9**

**10:00 AM Workshops**

Select one of the following:

## **High Strength Wastewater** (10-16)

Participants will gain an understanding of high strength waste, its sources and constituents. The design considerations to address the unique treatment needs of these materials will be presented. Participants will leave with standard forms to address and manage a variety of high strength wastewater. These were developed and based upon field experience.

**Michael Sundberg**, Midwest Region Territory Manager, Bord Na Mona Environmental Products U.S.

## **Creative Onsite System Repairs** (10-17)

When a repair solution cannot be found in Chapter 73's array of conventional systems or in the Alternate Guidance Document, and the use of BTG waivers does not help, SEOs are challenged to find viable repair strategies. Every solution is a site-specific response to unique soils and topography. These repairs become municipal - landowner collaborations. The use of an advanced technology requires operation and maintenance arrangements.

**Laurel F. Mueller**, SEO, Soil Services Company, Inc.

## **Planning Module Issues** (10-18)

Experienced module reviewers will explore topics such as, "What are marginal conditions?" "What alternatives adequately address marginal conditions?" "Can Alternate Systems be used to satisfy planning requirements?" "When conducting preliminary hydrogeologic studies, is analysis of existing water supply wells adequate?" "What is required to satisfy the new requirement to address antidegradation of surface waters?" Bring your questions to this interactive session.

**DEP Panel**

**11:30 AM Region Meetings**

**12:30 PM Luncheon**

**John Hines**  
DEP Deputy Secretary

## *Onsite Wastewater in Pennsylvania: - Our World & Beyond*

Onsite wastewater management is achieved by blending a unique set of disciplines, each contributing their focused expertise to achieve the overall goal of protecting and improving the natural and cultural environments that sustain human endeavor.

Sessions present useful and actionable information for practitioners of every discipline. The structure facilitates networking among SEOs, municipal officials, consultants, planners, soil scientists, geologists, and manufacturers. Every discipline involved in onsite wastewater matters will find value in scheduled events and impromptu discussions.

In an era of change, you will learn about innovative technologies and the science that supports both new and old technologies. National, regional and state level presenters will help participants gain new understandings or update their knowledge resource base.

**PASEO's conference provides...**

- learning opportunities for the recently certified SEOs
- education for mature professionals
- take-home skills you can use tomorrow

*This conference will make a difference in what you know and how you employ that knowledge building your professional stature in the onsite wastewater management arena.*

*This is the conference for all onsite system professionals.*

# Onsite Wastewater in Pennsylvania: - Our World & Beyond

The Pennsylvania Association of  
Sewage Enforcement Officers'

## Conference Trade Show Annual Meeting March 7-9, 2010

Holiday Inn Harrisburg-Hershey

Exit 80 on I-81, Grantville, PA  
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## The conference for all Onsite System Professionals...

