

# PennTec 2025 **CONFERENCE PROGRAM**

**June 22-25, 2025** | Kalahari Resort & Convention Center  
Pocono Manor, PA



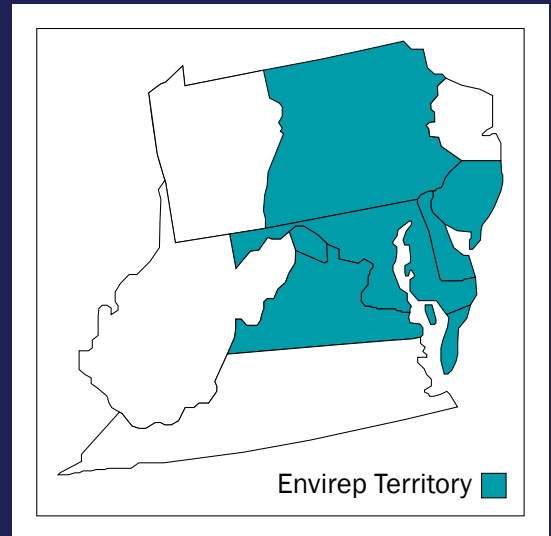
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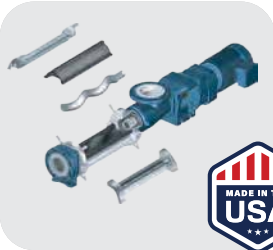
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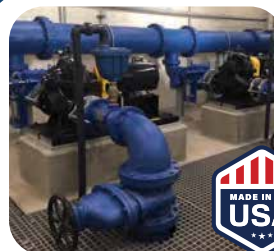
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### Q & A QUESTIONS?



If you have questions about PWEA,  
please contact the PWEA Administrative Office at  
**717-642-9500 or by email at [pwea@pwea.org](mailto:pwea@pwea.org).**

# Conference at a Glance

## SUNDAY, JUNE 22

1:00pm	Annual Golf Tournament <i>Pocono Manor Golf Course</i>
11:00am-3:00pm	Community Service Project <i>Kettle Creek Environmental Education Center</i>
4:00pm-5:00pm	Registration Opens <i>Registration 1</i>
5:30pm-7:30pm	Vendor Get-Together at <i>Redd's Piano Bar</i> <a href="http://www.kalahariresorts.com/pennsylvania/things-to-do/dining/redds-piano-bar-and-lounge">www.kalahariresorts.com/pennsylvania/things-to-do/dining/redds-piano-bar-and-lounge</a> with Exhibits & Sponsors Committee

## MONDAY, JUNE 23

7:00am-5:00pm	Registration Opens <i>Registration 1</i>
7:00am-8:00am	Continental Breakfast <i>Kilimanjaro Ballroom</i>
7:30am-8:30am	Keynote Presentation <i>Kilimanjaro Ballroom</i>
8:40am-11:30am	<b>Morning Technical Programs</b> <ul style="list-style-type: none"> <li>• Biosolids – <i>African Ballroom Suite 20</i></li> <li>• Collection Systems – <i>Salon D</i></li> <li>• Engineering &amp; Construction – <i>Salon C</i></li> <li>• Stormwater – <i>Salon A</i></li> <li>• Utility Management &amp; Government Affairs – <i>Salon B</i></li> </ul>
	<b>Workshops</b>
8:00am-5:00pm	• Activated Sludge Refresher Course – Day 1 of 2 <i>African Ballroom Suite 30</i>
8:45am-12:00pm	• Laboratory Practices Committee Workshop <i>African Ballroom Suite 40</i>

9:45am-10:15am	Exhibit Hall Open with Break Refreshments <i>Kilimanjaro Ballroom</i>
12:00pm-1:00pm	Exhibit Hall Open with Complimentary Lunch <i>Kilimanjaro Ballroom</i>
12:30pm-1:00pm	PWEA Annual Business Meeting with Dessert & Coffee <i>Salon H</i>
12:55pm-1:00pm	5-Minute Vendor Presentations
1:00pm-3:30pm	Professional Operators (PO) Plant Tour
1:00pm-4:45pm	<b>Afternoon Technical Programs</b> <ul style="list-style-type: none"> <li>• Biosolids – <i>African Ballroom Suite 20</i></li> <li>• Collection Systems – <i>Salon D</i></li> <li>• Engineering &amp; Construction – <i>Salon C</i></li> <li>• Stormwater – <i>Salon A</i></li> <li>• Utility Management &amp; Government Affairs – <i>Salon B</i></li> </ul>
2:40pm-3:40pm	Exhibit Hall Open with Break Refreshments <i>Kilimanjaro Ballroom</i>
3:40pm-4:45pm	Collection Systems Mobile Sessions in Exhibit Hall <i>Kilimanjaro Ballroom</i>
4:45pm-5:45pm	President's Reception in Exhibit Hall <i>Kilimanjaro Ballroom</i>
5:45pm-7:00pm	Annual PWEA Awards Ceremony <i>Kilimanjaro Ballroom</i>
7:15pm-9:30pm	Tailgate Dinner and Cornhole Tournament <i>River Ballroom and Patio</i>



## TUESDAY, JUNE 24

7:00am-5:00pm	Registration Opens <i>Registration 1</i>
7:30am-8:30am	Exhibit Hall Open with Continental Breakfast <i>Kilimanjaro Ballroom</i>
7:55am-8:00am	5-Minute Vendor Presentations
8:00am-11:45am	<b>Morning Technical Programs</b> <ul style="list-style-type: none"><li>• Collection Systems – <i>Salon D</i></li><li>• Engineering &amp; Construction – <i>Salon C</i></li><li>• Utility Management &amp; Government Affairs – <i>Salon B</i></li><li>• IW Pretreatment – <i>Salon A</i></li><li>• Artificial Intelligence – <i>African Ballroom Suite 20</i></li></ul> <b>Workshops</b> <ul style="list-style-type: none"><li>• Responsibilities of Clean Water Professionals “Operator Ethics” – <i>African Ballroom Suites 40</i></li><li>• Activated Sludge Refresher Course – Day 2 of 2 – <i>African Ballroom Suite 30</i></li></ul>
8:00am-11:45am	
8:00am-5:00pm	
9:40am-10:40am	Exhibit Hall Open with Break Refreshments <i>Kilimanjaro Ballroom</i>
11:45am-1:00pm	Exhibit Hall Break with Complimentary Lunch <i>Kilimanjaro Ballroom</i>
11:45am-1:00pm	Student Research Poster Presentations <i>Kilimanjaro Lounge</i>
11:45am-1:00pm	Women in Water Luncheon – <i>Salon H</i>
12:55pm-1:00pm	5-Minute Vendor Presentations

1:00pm-4:45pm

### Afternoon Technical Programs

- Collection Systems – *Salon D*
- Engineering & Construction – *Salon C*
- Drinking Water – *Salon B*
- IW Pretreatment – *Salon A*
- Artificial Intelligence – *African Ballroom Suite 20*
- Student Research Podium Presentations – *African Ballroom Suites 50 & 60*

2:40pm-3:40pm

Exhibit Hall Open with Break Refreshments  
*Kilimanjaro Ballroom*

4:45pm-5:45pm

Beer & Pretzels/Wine & Cheese Reception in Exhibit Hall  
*Kilimanjaro Ballroom*

4:45pm-5:45pm

Operator Olympics in Exhibit Hall  
*Kilimanjaro Ballroom*

## WEDNESDAY, JUNE 25

7:00am-8:30am	Continental Breakfast <i>Salon H</i>
7:00am-12:00pm	Registration Open <i>Registration 1</i>
7:55am-8:00pm	5-Minute Vendor Presentations
8:00am-11:15am	<b>Morning Technical Programs</b> <ul style="list-style-type: none"><li>• Engineering &amp; Construction – <i>Salon C</i></li></ul> <b>Workshops</b> <ul style="list-style-type: none"><li>• Solids Handling &amp; Disposal – <i>Salon B</i></li><li>• Excavation and Trenching Refresher – <i>Salon A</i></li></ul>
8:00am-11:30am	
8:00am-11:30am	
9:00am-1:00pm	PA DEP Water/Wastewater Operator Certification Exam <i>Rosewood &amp; Sagewood Rooms</i>
9:40am-10:10am	Break Refreshments <i>Aloeswood &amp; Ironwood Rooms</i>
11:30am	Conference Concludes

# A Message from PWEA Leadership

On behalf of the PWEA Board of Directors and the 2025 Conference Committee, we invite you to attend PWEA's 96th Annual Technical Conference and Exhibition (PennTec 2025) on June 22-25 at the Kalahari Resort & Convention Center in Pocono Manor, PA.

This year's Conference Program includes a wide range of topics related to water quality. In addition to the Conference technical sessions, we are also presenting workshops which have been approved by the PA DEP for additional contact hours for water and/or wastewater operator licenses. By attending these workshops, you could earn **up to 19.0 DEP Contact Hours, or up to 19.0 Continuing Education Hours**, in just a few days!

A very important part of the Conference is the vendor exhibition. By visiting the exhibits, you will gain insight into new and innovative solutions and discover new products and equipment that will help you do your job in a more efficient and safe manner. We encourage you to talk to the vendors about what is most important to you.

The Conference includes many networking opportunities for you to meet and interact with your colleagues. The Students & Young Professionals (SYP) Committee is organizing a **Community Service Project** for Sunday. The **Annual PWEA Golf Tournament** will also be on Sunday this year.

On Monday, the Professional Operators Committee will host a **Plant Tour**. Also on Monday is the **President's Reception**; the **Annual PWEA Awards Ceremony & Reception**; and the **Tailgate Dinner & Cornhole Tournament**.

On Tuesday, there is the **Women in Water Luncheon**; the **Beer & Pretzels/ Wine & Cheese Reception**; and **Operator Olympics**.

We believe the PennTec Conference will provide everything you need under one roof – education, vendor contacts, and networking. We look forward to seeing you there!



**James Degnan**  
Chair, PennTec 2025  
Conference Committee



**William LaPorte**  
PWEA President



**Robert W. Dengler II**  
Chair, PennTec 2025  
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Like water itself, innovation flows through every challenge and shapes new possibilities. For over 90 years, Carollo has pioneered breakthroughs in water technology – from resilient infrastructure protecting growing communities to groundbreaking solutions safeguarding public health and ecosystems. At Carollo, innovation isn't just about what's new – it's about what's necessary. Every advancement, every improvement, and every solution flows from a single purpose: shaping a future where water enriches every community it touches.



# Keynote Presentation

## *Jill Whitcomb, Pennsylvania Department of Environmental Protection (DEP) Deputy Secretary – Office of Water Programs*



We are delighted to welcome Jill Whitcomb as our keynote speaker. As Deputy Secretary of the Office of Water Programs at the Pennsylvania Department of Environmental Protection (DEP), Jill brings a distinguished career in water quality management, regulatory compliance, and watershed restoration. Her leadership has played a vital role in advancing Pennsylvania's mission to protect and

improve its water resources.

In her current role at DEP, Jill provides strategic oversight and direction for four key bureaus. These bureaus are responsible for managing both point and nonpoint source pollution, permitting and compliance, setting and assessing water quality standards, regulating water obstructions and encroachments, ensuring flood protection and dam safety, overseeing safe drinking water and source water protection, and coordinating efforts involving interstate waters, compacts, commissions, and coastal zone management.

Jill's career at DEP spans several staff and leadership positions. Most recently, she served as Director of the Bureau of Watershed Restoration and Nonpoint Source Management, where she led statewide programs addressing nonpoint source pollution, worked closely with conservation districts, supported agricultural conservation and compliance initiatives, and directed Pennsylvania's Chesapeake Bay watershed restoration efforts. Before joining DEP, she began her career with the Lancaster County Conservation District, laying the foundation for her lifelong commitment to environmental protection.

She holds a Master of Environmental Pollution Control from Penn State University and a Bachelor of Science in Biology from Lebanon Valley College.

In her keynote address, Jill will speak to the critical importance of protecting and sustaining Pennsylvania's water resources and infrastructure. She will emphasize the value of collaboration, highlighting the role of partnerships and networks across state, local, private, and non-governmental sectors. These connections are, and will continue to be, essential to overcoming the evolving challenges of water resource management.



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# Special Events

## Kettle Creek Environmental Education Center

Sunday, 11:00am-3:00pm

The community service project at PennTec will take place at the Kettle Creek Environmental Education Center (KCEEC).

The education center is run by the Monroe County Conservation District (MCCD) and features a critter room, art gallery, and gift shop with books and trail guides. Additionally, the site features over 150 acres of wildlife sanctuary, 3 miles of trails, and a children's discovery area.

The MCCD regularly holds events for the public, including summer camps, bog tours, and maple sugaring to name a few. Volunteers will be doing basic clean up tasks around the Center and nearby areas of the wildlife sanctuary.

There will also be opportunities to improve facilities by the construction of bird boxes and a new feature at the children's discovery area.

Volunteers are asked to bring their own work gloves if possible. Water, snacks, and lunch will be provided in addition to a brief facility tour following the volunteer activities.

Participation is open to anyone; conference registration is not required. Volunteers are asked to wear long pants, closed toe shoes, and to dress for the weather. The Project will be held rain or shine.



  
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# Special Events

## *Annual PWEA Golf Tournament*

*Sunday, 1:00 pm*

Join your colleagues for a friendly game of golf at the Pocono Manor Golf Course in Pocono Manor, PA. The course is located about 15 minutes from the venue. Refreshments and prizes will be provided. Net proceeds from the tournament will benefit PWEA's Operations Challenge Program.



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SVI<sub>5</sub> comparison of aerobic granular sludge (left)  
and conventional activated sludge (right)



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# Special Events

## Vendor Get-Together

*Sunday, 5:30-7:30pm*

Exhibitors are invited to attend this informal gathering organized by the PWEA Exhibits & Sponsors Committee. Come meet the committee and PWEA leaders at Redd's Piano Bar.



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## PWEA Annual Business Meeting

*Monday, 12:30-1:00pm*

Conference attendees are invited to attend and participate in the Annual Business Meeting. The Board of Directors welcomes input from everyone. PWEA members will vote on Officer positions.

**Coffee and dessert will be available during the Annual Business Meeting.**



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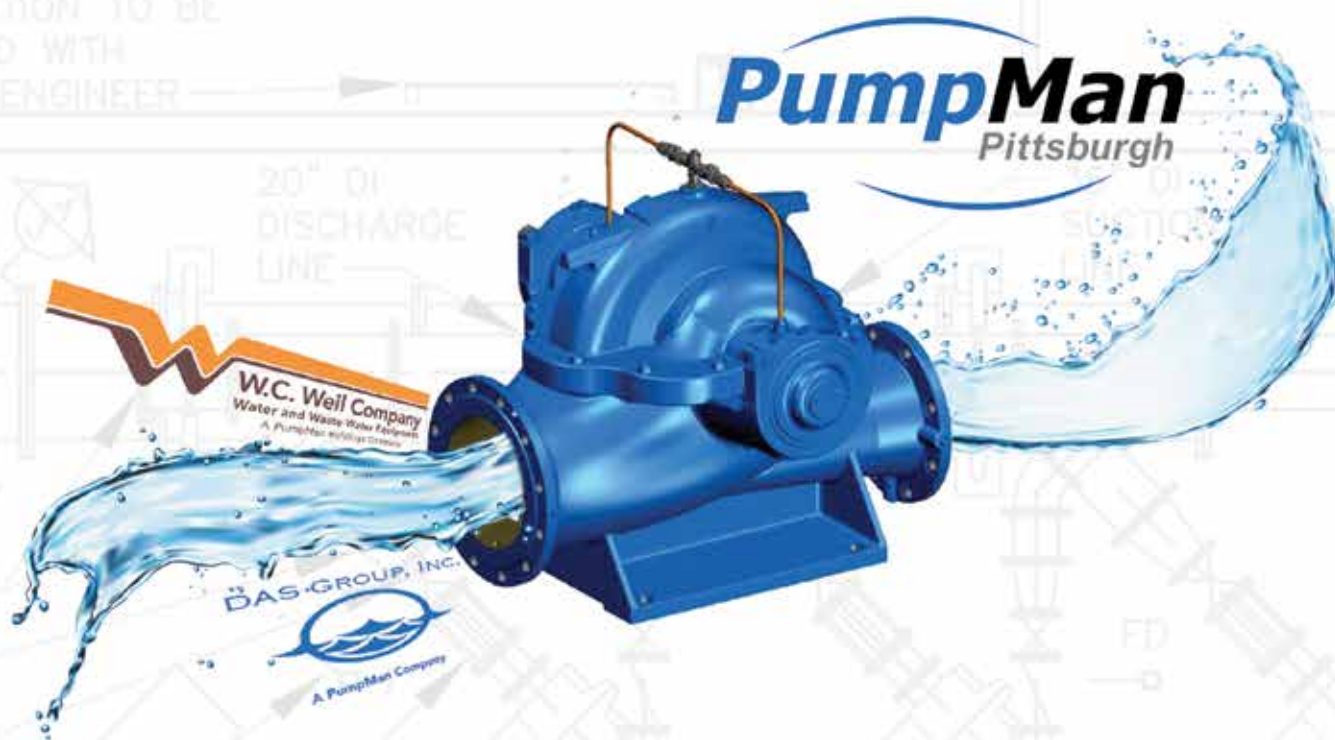


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# Special Events



## Plant Tour

*Explore Mount Pocono Municipal Authority*

**Date:** June 23, 2025

**Time:** 1:00-3:30pm

**Location:** Mount Pocono Municipal Authority  
1361 Pocono Blvd, Mount Pocono, PA 18344

Join your colleagues for a tour of the Mount Pocono Municipal Authority in Pocono Manor, PA. The plant is located about three minutes from the venue. The tour is hosted by the Professional Operators Committee, Mount Pocono Municipal Authority, and Eastern Pennsylvania Wastewater Pollution Control Association.

### Plant Highlights

The Mount Pocono Municipal Authority (MPMA) is the regulatory body for the Sewer District. It is a separate entity governed by a five-person board.

The MPMA was chartered by the Borough Council to provide municipal waste services in 1972. The original construction of the Wastewater Treatment Plant was completed in 1975. There were two prior upgrades to the most recent upgrades that were completed in 2020.

Be sure to register in advance to reserve your seat on the bus. A limited number of tickets may be available on-site, subject to prior sale. The cost is \$35 per person.

# Plant Tour

*Monday, 1:00-3:30pm*

*Hosted by the Professional Operators Committee,  
Mount Pocono Municipal Authority, and  
Eastern Pennsylvania Wastewater Pollution  
Control Association*

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# Special Events

## *PWEA Annual Awards Ceremony & Reception*

*Monday, 5:45-7:00pm*

The Annual Awards Ceremony honoring your colleagues who have won prestigious state and national awards will take place following a short reception. This event is open to all Conference attendees.

**Pre-registration is required. There is no charge to attend. Includes hors d'oeuvres and a drink ticket.**



## *Tailgate Dinner & Cornhole Tournament*

*Monday, 7:15-9:30pm*

The PWEA Students & Young Professionals Committee will host a fun and friendly evening of networking, cornhole tournament, food, drinks and great prizes. A tailgate themed dinner buffet will begin at 7:15pm and cornhole teams will be randomly formed immediately after dinner. The event is open to all experience levels, professionally and competitively. Attendees are encouraged to don their favorite team's tailgating attire.

**Pre-registration is required. Tickets are \$55 per person. Dinner and a drink ticket are included.**



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## Special Events

### *Women in Water Luncheon*

*Tuesday, 11:45am-1:00pm*

Join your fellow colleagues for the third annual Women in Water Luncheon. This luncheon will feature networking opportunities and discussion with prominent women who are dedicated to water quality and who will share their personal and professional challenges and successes, work/life balance, and educational experiences.

**Pre-registration is required. There is no charge to attend.**



### *PWEA Student Research Poster Contest*

*Tuesday, 11:45am-1:00pm*

The PWEA Research Committee reviews student research submissions and invites qualifiers to participate in the Poster Contest. After judging by faculty and practicing engineers, the top three poster presenters in both undergraduate and graduate categories are chosen. Posters will be available for viewing by Conference attendees. Awards will be presented at the Student Research Program.



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# Special Events

## Operator Olympics

Tuesday, 4:45-5:45pm

This is a fun activity based on some real Olympic events, but with a wastewater twist. Games may include:

*Bowling, using a ball from a pump and BOD bottles; Plunger Toss, tossing small plungers into a bucket; Golf Ball Chip, chipping golf balls into a toilet; Hockey, score a goal through a toilet seat; and Turd Toss, throw (plastic!) turds into a bucket.*

Can you think of a better way to spend the afternoon?

**There is no charge and pre-registration is not required. This is a competitive event and prizes will be awarded.**



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# Special Events

## Back by popular demand is the PWEA Biosolids Beauty Contest!

The Exhibitor & Sponsors and Biosolids Committees are once again hosting this fun contest at the 2025 PennTec Conference. Please be sure to stop by the designated area inside Kilimanjaro Ballroom in order to view the submissions and to see how creative our Biosolids Professionals can be! The winner will be announced during the lunch break on Tuesday, June 24, and receive a prize and a trophy with a year of bragging rights for the winner. Who will be crowned winner of the PWEA 2025 Biosolids Beauty Contest?

Please contact Chris Boyd via email ([chrisb@chartermachine.com](mailto:chrisb@chartermachine.com)), or phone (732-425-7489) with any questions.

**No entries will be accepted after June 7. All displays must be turned in at the Booth 56 on or before 9 am on Monday June 22, 2025; and must be complete and ready for viewing upon delivery.**

**Contestants will not be permitted to make any changes and/or modifications to their displays once they are turned in.**



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Perfluorobutanoic acid (PFBA)	1100	5	<1.9	>99.8%
Perfluoroheptanoic acid (PFHpA)	480	<2	<1.9	>99.6%
Perfluorohexanesulfonic acid (PFHxS)	690	<2	<1.9	>99.7%
Perfluorohexanoic acid (PFHxA)	2100	7.8	<1.9	>99.9%
Perfluorooctanesulfonic acid (PFOS)	200	<2	<1.9	>99.1%
Perfluorooctanoic acid (PFOA)	820	2.5	<1.9	>99.8%
Perfluoropentanoic acid (PFPeA)	880	2.7	<1.9	>99.8%
Total	6550	18	0	>99.9%

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POTW Effluent w/10% Nanofiltration Permeate	46%
Leachate Reverse Osmosis Permeate	84%
POTW Effluent w/ 10% RO Permeate	78.5%
POTW Effluent w/ 25% RO Permeate	80.5%
POTW Effluent w/ 40% RO Permeate	81.1%

MERCURY REMOVAL				
October	(ng/l)	196	<0.5	99.74%
November	(ng/l)		<0.5	
December	(ng/l)		<0.5	
January	(ng/l)		<0.5	
February	(ng/l)		<0.5	



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# Professional Development Hours and Tracking

## *NEW for 2025:*

PWEA now uses an electronic system to track PennTec session attendance. PWEA will issue a record of your attendance after the conference.

Please be sure to do each of the following to ensure we accurately track your attendance:

- Have the QR code on your badge scanned as you enter your first session
- Have the QR code on your badge scanned as you enter the next session after the lunch break
- Have the QR code on your badge scanned before heading to lunch and at the end of the day



## *Tips*

- You are allowed to move between rooms during a session, no rescanning necessary
- Any volunteer may scan you into and then out of the sessions

## *Important to Know*

- You must scan both in and then out at the end of each session in order for PWEA to issue a record of attendance for that session.
- The record will show which sessions you attended during the conference, and the amount of time spent. Example: PennTec 2025 Monday A.M. Technical Sessions
- You must be registered for the day of the conference for which you attend sessions and seek a record.
- After the conference, staff will verify all scanned information and produce a record of attendance. This record will be emailed approximately four weeks after the conference.



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# Technical Program Details

Five extra minutes has been added between sessions to allow attendees time to move between Technical Program rooms. should they wish to do so.

## MONDAY MORNING

### BIOSOLIDS PROGRAM

**Moderators:** Charles Winslow; Richard Valiga

#### 8:40am-9:10am – PFAS in Wastewater – From Research to Reality

**Speaker:** Samir Mathur, CDM Smith

This presentation will provide an overview of the cutting-edge research related to PFAS in wastewater, as well as guidance on how utility managers and operators in Pennsylvania can apply this research to address real-life PFAS issues at their specific WRRF.

#### 9:15am-9:45am – Tracking PFAS in a Biosolids Gasification Facility Operating Full Scale

**Speaker:** Mohammad Abu-Orf, PhD, Hazen and Sawyer

The presentation will focus on PFAS measurement in a full-scale gasification facility. PFAS measurements were conducted at the end of March 2024, including the first PFAS air testing at a full-scale gasification.

#### 10:20am-10:50am – Hydrothermal Carbonization – A Regional Solution for Biosolids Management

**Speaker:** Jeremy Taylor, SoMax Circular Solutions

SoMax Circular Solutions conducted a feasibility study to assess the development of a centralized Hydrothermal Carbonization (HTC) facility in the Philadelphia suburbs, designed to accept biosolids from four WRRFs. The study shows long-term stability and savings for contributing WRRFs. This presentation will share the results of the study, and the most recent developments in HTC.

#### 10:55am-11:25am – Innovative Solutions for Biosolids Management: Exploring Advanced Thermal Drying Technologies

**Speaker:** Karthik Reddy Manchala, GHD

This presentation explores advanced thermal drying technologies for municipal biosolids management, focusing on energy-efficient designs, product quality, and emerging innovations like PFAS pretreatment. It highlights key design criteria, trade-offs, and practical case studies, showcasing sustainable solutions for reducing biosolid volumes, improving disposal logistics, and enabling safe reuse or advanced processing.

#### 11:30am-12:00pm – Transforming Sludge: Supercritical Water Oxidation (SCWO) for a PFAS-Free Future

**Speaker:** Naomi Senehi, 374Water

Supercritical water oxidation (SCWO) is applied to numerous municipal and industrial biosolids to illustrate consistent, effective conversion to inert PFAS-free mineral effluent available for safe reuse. Empirical data from a case study is used to illustrate how the technology can be installed on site with minimal footprint and within budget.

## COLLECTIONS SYSTEMS PROGRAM

**Moderators:** Nick Modany; Lucas Chapman

#### 8:40am-9:10am – Sewer Sociology

**Speaker:** Peter Frick, ADS Environmental Services

This paper will present a collection of interesting observations of human behavior documented through sewer flow monitoring data. The authors have performed engineering analysis on data from thousands of flow monitoring locations across the United States, and this paper will show those of general interest, including serious and light-hearted material.

#### 9:15am-9:45am – Controlling the Source: Identifying, Funding, and Evaluating Performance of Impactful, Cost-Effective Source Control Projects

**Speaker:** Tim Prevost, Allegheny County Sanitary Authority; Andrew Potts, Jacobs

The presentation will describe the development and application of the project efficiency modeling and constraint and opportunity analysis, discuss the performance evaluation process, provide a summary of performance for nearly 100 grant projects, and discuss lessons learned for their applicability in helping to address wet weather issues in other communities.

#### 10:20am-10:50am – Democratizing Sewer Capacity Planning through Digital Innovation

**Speaker:** Keith Hodsdon, Trinnex

In sewer capacity planning, it is essential to understand the current system's capacity and predict future demands accurately. The process involves a detailed assessment of the sewer system's ability to accommodate current and future flows, including wet weather peak flows. This presentation will discuss the current state-of-the-art in capacity planning and discuss the importance of modernizing the capacity planning methods to suit current needs. We will also present case studies of modernizing capacity planning for utilities and show examples of how utilities can create end-to-end workflows to simplify their sewer permitting and capacity planning process.

#### 10:55am-11:25am – The Future is Smart Sewer Inspections

**Speaker:** Josh Ford, PipeAld

AI is transforming sewer pipe inspections by enhancing efficiency, accuracy, and cost savings. By automating defect detection and coding, PipeAld™ reduces inspection time, eliminates human bias, and integrates with GIS for a digital twin. Join us to explore PipeAld's predictive maintenance capabilities and its seamless integration with existing technologies.

#### 11:30am-12:00pm – Tracking Asset Information: Integrating Digital Solutions to Augment Data Collection and Data Accessibility

**Speakers:** Robert Cecchetti; Josiah Bair, GHD

Digital solutions provide the ability to track asset information, automate workflows, reduce the time needed for quality control and review, and ultimately increase design productivity. Furthermore, digital solutions provide a platform to effectively convey information to stakeholders to alleviate questions and stress during construction.

# Technical Program Details

Five extra minutes has been added between sessions to allow attendees time to move between Technical Program rooms.

## ENGINEERING & CONSTRUCTION PROGRAM

### Construction

*Moderators: Ben Briston; Rucha Shah*

#### 8:40am-9:10am – Alternate Delivery Examples –

##### **Plowing the Way for Efficient Private Water Project Delivery in PA**

*Speakers: Michael Bisignani; Joseph Koehler, GHD*

Allan Myers and GHD have jointly delivered over ten successful water and wastewater projects in Pennsylvania. This presentation highlights alternative delivery approaches, challenges, outcomes, and lessons learned, with projects ranging from \$350K collection system upgrade projects to \$20M water treatment plant capital improvement projects for private water companies.

#### 9:15am-9:45am – Safety in Design

*Speaker: Jared M Lewis, CSP, Hazen and Sawyer*

EH&S is an inherent part of the design process and in many ways can be considered an engineering discipline. This presentation is an overview of the Prevention through Design/ Safety in Design methodology and how it can be applied on water infrastructure projects according to standard design processes and client requirements.

#### 10:20am-10:50am – Predictive Design Process Modeling for Operation During Construction and Startup

*Speaker: Kevin Hoffman, KLH Engineers*

McCandless Township Sanitary Authority utilized prudent planning to design a WWTP upgrade elected to Phase the construction of the biological process upgrades consistent with future influent loads. Design efforts to model the process through phasing as well as construction and startup of Phase I will be compared to actual operational data experienced.

#### 10:55am-11:25am – Startup and Integration of a New 360 MGD Headworks Facility into an Existing Plant

*Speaker: Isaac Katz, WRA*

We are up and running! A new 360 MGD headworks building for ALCOSAN is officially online. This presentation will walk through all the ins and outs of startup, testing, and integration of the new headworks into an existing plant.

#### 11:30am-12:00pm – We Will Grit By – An Increasingly Complex Grit System Rehabilitation

*Speaker: Jeff Naumick, GFT Inc*

## UTILITY MANAGEMENT & GOVERNMENT AFFAIRS PROGRAM

*Moderators: Mark Pickering; Maria White*

#### 8:40am-9:10am – Modernizing Wastewater Compliance and

##### **Operations through a Digital-First Framework at a Wastewater Utility in the Northeastern United States**

*Speaker: Keith Hodsdon, Trinnex*

The wastewater resource recovery facility (WRRF) processes wastewater from its constituent communities with an average daily flow of 20 to 30 million gallons per day (MGD) with peak flows in the excess of 100 MGD. The WRRF processes lab samples in an internal lab and stores the data in a laboratory information management system (LIMS). Data is also collected from plant instrumentation via SCADA. As a first step on its digital transformation journey, they are interested in modernizing their infrastructure by integrating their data within a digital platform and leveraging modern digital technologies to automate processes and optimize operations using Trinnex's waterCAST platform. The WRRF's goals are to provide a platform for the utility staff to be able view the data on a single platform while providing the ability to showcase WRRF performance both internally and externally. This presentation will cover the digital transformation journey that the WRRF has embarked upon. It will also identify concrete steps for wastewater utilities to future-proof their operations while reducing time spent on routine activities such as monthly reporting, tracking sampling requirement and compliance, etc. We will also cover how the WRRF is using artificial intelligence (AI) to predict influent flow to their WPCF to forecast treatment needs especially under peak flow conditions.

#### 9:15am-9:45am – Mastering the Matrix:

##### **Four Fundamentals for a Secure and Resilient SCADA System**

*Speakers: Heather Heltzinger, LO, Renegade Solutions, LLC;*

*Hank Hosler, CoStream*

This presentation focuses on four key cybersecurity fundamentals for wastewater systems: Asset Management, ensuring control over critical infrastructure; Segmentation, enhancing security by isolating network zones; Remote Access, enabling secure monitoring from off-site locations; and Data Integrity, maintaining the accuracy and reliability of operational data. A Q&A session will follow for further discussion.

#### 10:20am-10:50am – Right Sizing a Facility Assessment Managing Infrastructure Before it Becomes Critical

*Speakers: Ed Carpenetti; Matt Crow, Black & Veatch*

This presentation will provide an overview of considerations for developing an asset management program, and interfacing with Master Planning efforts. This is not a one size fits all approach and asset management can be tailored to fit utilities of any size while still providing valuable information in an easy-to-understand format.

#### 10:55am-11:25am – Holistic Approach to Improved Nutrient Management with The Water Research Foundation Framework for Success (WRF4974) and Application in the Delaware River Basin

*Speaker: Jake Metch; Tyler Erb, HDR*

This Water Research Foundation project developed a framework to provide a structured process to develop holistic watershed-based nutrient reduction plans. This framework is being applied in the Delaware River Basin through the establishment of a partnership of major municipal dischargers to discuss technical strategies, estuary science, and regulatory activities.



# Technical Program Details

## UTILITY MANAGEMENT & GOVERNMENT AFFAIRS PROGRAM *(CONTINUED)*

### 11:30am-12:00pm – Navigating One Water Planning through Municipal Water Programs: Meeting Multiple Objectives and Regulatory Challenges (WRF Project 5175)

*Speaker: Adam Hendricks, GHD*

Navigating One Water Planning through Municipal Water Programs (WRF Project 5175) is exploring One Water strategies for municipal water utilities. This presentation will provide approaches for One Water solutions to address current and future regulatory obligations and achieve multiple benefits with a detailed One Water Planning Framework.

## STORMWATER PROGRAM

*Moderators: Brad Smith; Jason Hinz*

### 8:40am-9:10am – Creating a Stormwater Authority – Everything You Need to Know

*Speakers: Vanessa Nedrick, PE, MSEM; Daulton George, Remington & Vernick Engineers*

In April 2021, Warminster Municipal Authority, a water/sanitary sewer authority, took ownership and maintenance of the stormwater system from Warminster Township, with no stormwater experience, to running a successful stormwater program. This presentation will outline everything you need to know creating a stormwater authority or utility, with real examples.

### 9:15am-9:45am – Using Technology to Cost Effectively Inventory Stormwater Assets and Efficiently Invest in Infrastructure Management

*Speaker: Ben Gilberti, PE, Herbert, Rowland & Grubic, Inc.*

See how Evans City Borough is using technologies like thermal imaging drones, pipe imagery, and GIS data inventory to systematically improve the operation and rehabilitation of their stormwater conveyance system. This technology helps them make the most efficient use of capital resources while correcting insufficient capacity and deteriorating condition.

### 10:20am-10:50am – Case Study: Design and Construction of Seven Rain Gardens in South Philadelphia: Lessons Learned from the 24th Street Greening Improvements Project

*Speakers: John Brennan, PE; Jaime Gandara, PE, Hazen and Sawyer*

This case study details the design and construction of seven rain gardens in South Philadelphia's 24th Street Greening Improvements Project. It examines geotechnical constraints, utility challenges, and construction adjustments. Lessons learned emphasize the importance of flexibility and problem-solving during construction, which resulted in optimized stormwater capture and enhanced community spaces.

### 10:55am-11:25am – Smart Stormwater Solutions: Managing Your Budget and Program for Maximum Impact

*Speakers: Tyler Erb;*

*Bruce Hulshizer, PE, Herbert, Rowland & Grubic, Inc.*

Do you feel overwhelmed by an ever-increasing list of stormwater concerns and projects? See how two stormwater utilities are making the best use of available funds: clearing a decades-long backlog of repair and improvement needs while minimizing future costs through proactive infrastructure assessment and strategic capital planning.

## STORMWATER PROGRAM *(CONTINUED)*

### 11:30am-12:00pm – Transforming Traditional Detention Basins: Strategies and Case Studies for Retrofits

*Speakers: Ryan Cumming, HRG and Matt Gunther, PTSA*

Basin retrofitting is expected to grow as MS4 regulations evolve. See how pre-soil testing, sophisticated modeling, and other strategies can maximize the sustainability and resilience of your basins. Deliver basins that more accurately match real-world flow patterns and can adapt to changing weather patterns for the long-term.

## MONDAY AFTERNOON

## BIOSOLIDS PROGRAM

*Moderators: Charles Winslow, Richard Valiga*

### 1:00pm-1:30pm – A Regional Biosolids Management Study in New England

*Speaker: Vanessa Borkowski, Stantec*

There is a biosolids crisis occurring in New England, and one method for mitigating the effects of the crisis is to form an alliance to develop a regional biosolids solution. This evaluation was completed by three utilities in New England to assess the feasibility of a regionalized biosolids management facility. The process for the Study included a regulatory investigation, baseline costs, market and value chain study, sidestream analysis, technology operating scenarios, cost evaluation, and non-financial evaluation.

### 1:35pm-2:05pm – Silver Spring Township's Journey to Beneficial Use

*Speakers: Lisa Challenger; Jim Stevens, Material Matters, Inc.*

Silver Spring Township Sewer Authority (SSTSA) operates a small wastewater treatment facility in central Pennsylvania – with a history of solids management via landfill disposal. Facing rising costs and uncertainty, SSTSA engaged Material Matters to review plant operations and provide feedback on achieving Class B standards. This presentation will discuss the feasibility study conducted by Material Matters for digester optimization without capital investment and their development of a cost-effective beneficial use program.

### 2:10pm-2:40pm – Sludge Settleability Improvements Associated with Full-Scale Densification of BNR Activated Sludge

*Speakers: Nicolas Tenorio; Alex Doody, CDM Smith*

In January 2023, a quarter-scale pilot of inDENSE selective sludge wasting was conducted at the Middle Basin Wastewater Treatment Facility to quantify settleability improvements in the final clarifiers. This presentation summarizes the pilot results and additional testing by CDM Smith during a site visit in June 2023.

### 3:40pm-4:10pm – Biosolids Gasification and Pyrolysis – Lessons Learned from Early Adopters

*Speakers: Charles Winslow, PE; Jay Surti; John Harris, GHD*

This presentation will provide Utility Owners, Engineers, and Operators a fundamental understanding of biosolids pyrolysis and gasification facility planning, design, construction and operational considerations, including lessons learned by early adopters in the form of case studies that will be valuable for the implementation and betterment of future projects.

# Technical Program Details

## BIOSOLIDS PROGRAM *(CONTINUED)*

**4:15pm-4:45pm – I Just Want My Data –  
Working with Contract Laboratories to Get the Right Results**  
*Speaker: Natalie Switala, Material Matters*

This presentation will provide participants with an overview of laboratory accreditation changes, examples of challenges with contract laboratory results, and give audience members insight into key things to be looking at on a regular basis when reviewing results of tests completed by contract laboratories.

## COLLECTIONS SYSTEMS PROGRAM

**Moderators: Melissa Smith; Matt Cichy**

**1:00pm-1:30pm – Using a Phased Contract Approach for  
Trenchless Sewer Rehabilitation in Pittsburgh, PA**  
*Speakers: Nick Modany; Toby Stutzman, PGH Water*

The Pittsburgh Water and Sewer Authority selected the Knoxville neighborhood for sewer rehabilitation due to being an Environmental Justice Area and its over 100-years-old sewer system. When JMT recommended 160 repairs on 7.5 miles of pipe, PWSA decided to phase the project and two separate PENNVEST funding applications were prepared.

**1:35pm-2:05pm – The Value of Trenchless Auger Boring  
in Complex Sewer Main Rehabilitations, a Case Study**  
*Speakers: Caleb Krauter, PE;*

*Tas Hossain, EIT, Herbert, Rowland & Grubic, Inc.*

Trenchless Auger Boring helped Capital Region Water replace a 12-inch sanitary sewer pipe that presented significant challenges, such as a depth of 27-36 feet, nearby utility conflicts with a 54-inch Storm RCP, and infiltration issues. Discover how Trenchless Auger Boring provides a unique solution for replacing utilities in complex environments.

**2:10pm-2:40pm – Paper Title: Reinforced CIPP Lining  
of the 111-Year-Old Front Street Interceptor –  
Capital Region Water – Harrisburg, PA**  
*Speaker: Kevin Alspach, AECOM*

The Front Street Interceptor Project involved installation of reinforced CIPP lining throughout 14,895 LF of box-shaped reinforced concrete pipe (RCP). Liner design was completed using ASCE MOP 145. Construction involved long trucked-in shots, made feasible by designs used in MOP 145, and reinforced lining tube materials to reduce required design thickness, and overall product weight.

**3:40pm-4:10pm – Quiz**

**4:15pm-4:45pm – Quiz**

## ENGINEERING & CONSTRUCTION PROGRAM

**Process Modeling**

**Moderators: Rucha Shah; Scott Armbrust**

**1:00pm-1:30pm – Biological Process Modeling for Strategic  
Operational Improvements and Guidance of Capital Solutions**

*Speakers: Dylan Cowell, EIT;*

*Amanda Lee, Herbert, Rowland & Grubic, Inc.*

Biological process modeling can serve as a key tool when evaluating operational changes and capital solutions for wastewater treatment plants. This presentation will overview model development and highlight case studies through which these models were used to provide cost-effective and data-driven solutions to critical issues.

**1:35pm-2:05pm – Process Digital Twins –  
Twice the Insight or Two Times the Headache?**

*Speaker: Patrick J Dunlap, Black & Veatch*

Process digital twins have emerged as potentially transformative tools which can provide real time insights which previously would require hours behind a computer to produce. But beyond the hype, there are questions to answer and challenges to overcome. Case studies will cover various applications and approaches.

**2:10pm-2:40pm – Predicting Primary Clarifier  
Performance with Traditional and Machine Learning Models**  
*Speaker: Nick Guho, Carollo Engineers*

Historically, various models have been used to predict primary clarifier performance, from simple empirical relationships to CFD. This presentation uses full-scale data to compare the performance of simple traditional models with a suite of machine learning models and develop recommendations for primary clarifier modeling in facility planning and capacity evaluations.

**3:40pm-4:10pm – Using Artificial Intelligence to  
Drive Predictive Analytics in a Cloud SCADA System**

*Speaker: Justin Starr, Community College of Allegheny County*

While AI is an exciting technology, it can be challenging for water and wastewater professionals to identify exactly how to implement cutting edge algorithms into collection systems. This session will explore how AI was deployed with an existing SCADA dataset, using models developed and deployed by community college students.

**4:15pm-4:45pm – Planning and Building for the Future –  
Expansion of the Wareham WPCF**

*Speaker: David Gryger, GHD*

Faced with an aging plant and increasing loadings, Wareham, Massachusetts needed to upgrade existing facilities while planning for the future. This required careful engineering of the current project to ensure compatibility with future upgrades, resulting in a road map for improvements to double the capacity over the next 20 years.



# Technical Program Details

## UTILITY MANAGEMENT & GOVERNMENT AFFAIRS PROGRAM

**Moderator:** Mark Pickering

### 1:00pm-1:30pm – “It’s Complicated” The Operator-Engineer Relationship

**Speaker:** Robert Horvat, KLH Engineers

The working relationship between operators and engineers can be complicated and this is particularly true during the design of municipal projects. When the design team actively involves operators, and operators provide thoughtful input into decisions, projects are much more likely to be successful. This presentation examines common misconceptions of each about the other and explores strategies for engagement and success.

### 1:35pm-2:05pm – Leadership and Management for New Professionals, Including Asset Management

**Speaker:** Ralph E. Johnson, System Design Engineering

In the Leadership and Management for New Professionals and Asset Management presentation we’ll compare operator responsibilities to leader responsibilities, and we’ll discuss leadership in today’s employment market. We’ll also cover the importance of asset management implementation as it relates to leadership.

#### Objectives

- Create an awareness that as a leader there are additional and somewhat different duties and responsibilities compared to operations and maintenance.
- Present a list of leadership, management and supervisor topics that one needs to acknowledge and understand as a utility leader, manager and/or supervisor.
- Present an overview on each topic presented to create an awareness of what responsibilities, skills and duties are involved with being a leader, manager and/or supervisor.

### 2:10pm-2:40pm – Synergizing Diverse Drivers for Philadelphia’s Wastewater Master Plan

**Speakers:** Samantha Lynn O’Connor; Benjamin Deatrich, Philadelphia Water Department

The presentation will focus on integrated master planning for PWD wastewater plants, addressing critical considerations such as asset management, future ammonia regulations, climate change, and energy management. By integrating these factors, PWD aims to optimize resources, minimize environmental impact, ensure compliance with future regulations, and enhance sustainability and resilience.

### 3:40pm-4:10pm – DEP Update

### 4:15pm-4:45pm – DEP Update

## STORMWATER PROGRAM

**Moderators:** Bruce Hulshizer; Gabe Lederman

### 1:00pm-1:30pm – Using Smart Stormwater Controls to Meet Stormwater Requirements and Preserve the Aesthetic Character of Two Historic Ponds in Harrisburg, PA: An Update and Lessons Learned

**Speakers:** Susan Beck, PE; Claire Maulhardt, PLA, Jacobs

This presentation will discuss the implementation of CMAC to optimize stormwater performance within two existing historic ponds. The presentation will share lessons learned on how the system was optimized to maximize stormwater performance and will demonstrate real performance data collected in 2024 demonstrating the system met and exceeded performance targets.

### 1:35pm-2:05pm – NYC DEP Right of Way Green Infrastructure: Implementing 7 Miles of Precast Porous Concrete Panels in the Gravesend Bay Neighborhood of Brooklyn, NY

**Speaker:** Stephanie Drago, NYC DEP

This presentation will discuss the design and construction of the first NYC area wide precast porous concrete panel contract. Design includes utility analysis, tributary drainage area analysis, geotechnical investigations, survey, and design. Construction requires coordination with multiple stakeholders and overcoming a wide variety of challenges.

### 2:10pm-2:40pm – City of Los Angeles’ Development of a Tool to Quantify the Benefits of Non-Structural Measures

**Speakers:** Paul Caswell; Taraneh Nik-Khah, Hazen and Sawyer

The City of LA is developing a tool and framework to quantify the human-centric and pollutant reduction benefits of non-structural BMPs and minimum control measures. This presentation will focus on the methodology development and the interactive tool used to inform program investments.

### 3:40pm-4:10pm – Integrating Public Reporting Systems for Stormwater/MS4 Using GIS

**Speaker:** Andrew Tuleya, ARRO Consulting

Learn how you can leverage GIS for soliciting, processing, and responding to information provided by the public related to stormwater issues. Whether you are an MS4 permit holder or just trying to better manage public information, this presentation will provide you with easy to implement solutions related to stormwater management.

### 4:15pm-4:45pm – Coordinating Complex Underground Projects

**Speaker:** Maria White, PA One Call System, Inc.

Discover the Pennsylvania 811 Coordinate PA application, an underground project management tool that enables all underground stakeholders to safely manage large and complex underground projects from conception to construction. CPA assists stakeholders to be in compliance with the updated Pennsylvania One Call Law.

## TUESDAY MORNING

## ARTIFICIAL INTELLIGENCE PROGRAM

**Moderators:** Anna Pravlochak

**Monitors:** Damian Bernstein/Samantha Schmucke

### 8:00am-8:30am – Artificial Intelligence 101: Understanding the Basics

**Speaker:** David Stumph, Next7IT

Artificial intelligence (AI) is transforming the way we interact with technology, from smart assistants to autonomous systems. This presentation offers a beginner-friendly introduction to AI, exploring its fundamental concepts, history, and applications. Attendees will gain insight into how AI works, including machine

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# Technical Program Details

## TUESDAY MORNING – AI PROGRAM CONTINUED

learning, neural networks, and natural language processing. We'll also discuss the ethical considerations and future implications of AI advancements. By the end of this session, participants will have a solid foundation in AI and a better understanding of its role in shaping the world around us.

### **8:35am-9:05am – Artificial Intelligence vs. Machine Learning vs. Predictive Analytics: Understanding the Differences and Connections**

*Speaker: David Stumph, Next7IT*

In today's data-driven world, artificial intelligence (AI), machine learning (ML), and predictive analytics are often used interchangeably, but each plays a distinct role in technology and business applications. This presentation provides a clear breakdown of these concepts, explaining how they differ and how they intersect. AI serves as the overarching discipline that enables machines to simulate human intelligence, while ML is a subset that focuses on algorithms that learn from data. Predictive analytics, on the other hand, leverages statistical techniques and ML models to forecast future outcomes. Attendees will gain insights into real-world applications, industry trends, and the impact of these technologies on decision-making. By the end of the session, participants will be able to differentiate between these concepts and understand their significance in shaping the future of innovation.

### **9:10am-9:40am – The Legality and Ethics of Artificial Intelligence: Navigating the Future Responsibly**

*Speaker: Lee Stinnett, Salzmann Hughes*

Artificial intelligence (AI) is rapidly advancing, raising complex legal and ethical questions that impact individuals, businesses, and society at large. This presentation explores the evolving legal frameworks surrounding AI, including regulations on data privacy, intellectual property, and liability. Additionally, we will examine the ethical challenges posed by AI, such as algorithmic bias, transparency, and the societal consequences of automation. Attendees will gain insight into ongoing debates, emerging policies, and best practices for developing AI responsibly. By the end of the session, participants will be equipped with the knowledge to assess the implications of AI in legal and ethical contexts and contribute to responsible AI governance.

### **10:40am-11:10am & 11:15am-11:45am – AI at Work: Practical Applications in Equipment Condition Monitoring**

*Speaker: Joseph Lee, Aidentyx*

Artificial intelligence (AI) is reshaping condition monitoring in manufacturing, enabling smarter fault detection, predictive insights, and optimized system interactions. This presentation explores the transformative role of AI, highlighting key techniques such as machine learning and generative AI — including Large Language Models — and their practical applications in industrial settings. We will begin by examining essential AI technologies used in manufacturing and their integration into condition monitoring systems. Through real-world examples, attendees will see how AI-driven predictive maintenance strategies are replacing traditional reactive approaches, significantly reducing downtime and costs while enhancing equipment reliability and operational efficiency.

By showcasing successful industry implementations, this session will provide practical insights into how AI is modernizing maintenance practices, optimizing production workflows, and driving innovation across the sector. Attendees will leave with a deeper understanding of AI's critical role in advancing manufacturing resilience and performance.

## COLLECTIONS SYSTEMS PROGRAM

### **Pumps**

*Moderators: Daniel Claus; Roger Lehman; Ella Quinn*

Various subject matter experts will pump up your knowledge of collection system pump basics, applications, and design considerations as well as operational challenges.

### **8:00am-8:30am – Pump 101 – Basics**

*Speaker: Craig Nagler, Xylem*

### **8:35am-9:05am – Pump 201 – Applications**

*Speaker: Noah Dickerson, FlowServe*

### **9:10am-9:40am – Pump 202 – Challenges**

*Speaker: Will Hesse, Envirep*

### **10:40am-11:10am – Pump 301 – O&M**

*Speakers: Dan Claus, ADS, Jason Donaldson, Riordan, and Charles Hoffman, Envirep*

### **11:15am-11:45am – Pump 301 – O&M**

*Speakers: Dan Claus, ADS, Jason Donaldson, Riordan, Charles Hoffman, Envirep*

## ENGINEERING & CONSTRUCTION PROGRAM

### **Design Fundamentals**

*Moderators: Scott Armbrust; Ben Briston*

### **8:00am-8:30am – How Bad is it? Ranking & Analyzing Commonly Encountered Treatment Plant Corrosion Environments**

*Speakers: Steve Freed, PE; William Seawell, Induron*

This presentation will guide the proactive maintenance minded plant operator and engineer on how to address different tanks with different corrosion potentials. It will focus on the water chemistry aspect of corrosion and how that interacts with common coatings systems on all substrate types (steel, concrete, galvanized steel, etc.).

### **8:35am-9:05am – Screen Resolution: Evaluating, Selecting and Designing the Right Screen for your Wastewater Application**

*Speaker: David Silverman, PSI Process*

This presentation will review the planning and design process for screening applications. This includes a broad array of topics including existing screen performance and sizing, determination of objectives; determination of screen size opening and target particle size; estimation of screenings volume; estimation of head losses; screenings collection and disposal, and others.

### **9:10am-9:40am – The Importance of Process Air:**

#### **A Case Study on Blower Technology Evaluation and Design**

*Speaker: Danelle Bishoff, Stantec Consulting Ltd.*

This presentation reviews different blower technologies and walks through the blower technology selection process for the Fish Creek WWTP as it upgrades from HPO to a conventional BNR.

# Technical Program Details

## ENGINEERING & CONSTRUCTION PROGRAM

(CONTINUED)

It will also highlight major design items including blower control requirements, DO sensors, and air flow control valves for an optimized system.

### 10:40am-11:10am – Going the Extra Mile in Evaluating Digester Mixing Technologies for Existing Digesters

*Speaker: Xiao Guo, Carollo*

Optimized mixing improves digestion stability and increases digestion capacity. The objectives were to evaluate nine mixing technologies for installation on existing digesters at a California WRRF, determine what retrofit modifications would be required and associated costs using Finite Element Analysis (FEA), and ultimately select a mixing technology for the digesters.

### 11:15am-11:45am – The Basics of Heating and Air Conditioning at Water and Wastewater Facilities

*Speaker: William (Bill) L. Bohner, Jr., PE, ARRO Consulting*

This presentation shall provide an introduction to the basics of heating and air conditioning of spaces or buildings at water and wastewater facilities. This will include considerations for types and means for heating and air-conditioning a variety of spaces and the available technologies to achieve this.

## UTILITY MANAGEMENT & GOVERNMENT AFFAIRS PROGRAM

*Moderators: Mark Pickering; Maria White*

### 8:00am-8:30am – Strategies for Assessing & Strengthening Your Authority's Fiscal Health While Maintaining Affordable Rates

*Speakers: Melissa Komar; Ryan Killen, Herbert, Rowland & Grubic, Inc.*

Curious about how your fiscal health stacks up against neighboring authorities? Discover simple assessments and impactful strategies to evaluate your financial standing, optimize asset use, and engage customers. Learn how to make informed decisions that keep rates low while ensuring long-term financial vitality.

### 8:35am-9:05am – PA's Evolving Nutrient Credit Trading Program: An Update

*Speaker: Nickolas Hines*

This presentation aims to provide information to utilities that rely on the PADEP nutrient credit trading program as a means for compliance or revenue. Also discussed are steps for securing credits, verifying credits, and registering generated credits, as well as offering insights into trends in credit availability and cost.

### 9:10am-9:40am – Funding Urban Stormwater Infrastructure: A Study of Dedicated Stormwater Utilities in Mid-Atlantic Phase I MS4 Jurisdictions

*Speaker: Adrielli Bonfanti Pagnoncelli, Morgan State University*

This study examines the implementation and financial utilization of stormwater utility fees (SUFs) in Phase I MS4 municipalities across Maryland, Virginia, Pennsylvania, and Washington, D.C. It analyzes SUF revenue generation, expenditure patterns, and fee structures, providing critical insights into urban stormwater management financing and sustainable practices.

### 10:40am-11:10am – Navigating BABA Act Requirements

*Speaker: Brooke Semanchik, Herbert, Rowland & Grubic, Inc.*

Build America, Buy America (BABA) Act requirements can be found in almost all federally funded projects. Before putting a project out for bid, it is important to understand these requirements, the impact they could have on project design and project costs, and potential effects to the project timeline.

### 11:15am-11:45am – Where Can I Find Funding?

*Speakers: Natalie O'Connor; Tori Morgan, Entech Engineering, inc.*

Infrastructure funding is critical to this time to address the impending and current regulations. This presentation focuses on the various avenues for funding wastewater projects in Pennsylvania. We will focus on the new and existing funding programs available for wastewater projects, including both grant and low interest loan programs.

## IW PRETREATMENT PROGRAM

*Moderator: Dave Schlott Jr, Arro Consulting*

### 8:00am-8:30am – Representative Sampling: The Good, The Bad, The Ugly

*Speaker: Erin McKechnie*

This presentation provides an overview of representative sampling in wastewater, focusing on both best practices and common pitfalls. Key topics include sample types and collection techniques for targeted analyses such as oil and grease, volatile organic compounds (VOCs), and PFOS. The session will also cover essential sample preservation methods, chain-of-custody protocols, and the critical role of proper documentation in ensuring data integrity. Attendees will leave with practical insights to improve sampling reliability and compliance.

### 8:35am-9:05am – Implementing a FOG Management Program using GIS and Automation

*Speaker: Andrew Tuleya, ARRO Consulting*

Learn how collection systems can implement a streamlined approach to FOG management using GIS and other digital technology. Topics include typical elements of a FOG ordinance/code, management strategies, and streamlining efforts using GIS and automation. The presentation will provide a case study of successful FOG management implementation.

### 9:10am-9:40am – FOG Programs: How to Develop a Program That Makes Sense for Your Community

*Speaker: Tori Morgan, Entech Engineering*

Fats, Oils, and Grease (FOG) Programs are a systematic approach to cleaning up and preventing FOG from entering the collection system. Since each Collection system is unique, each FOG Program is also unique. We will explain how programs can be specifically crafted to meet the needs of your community.

### 10:40am-11:10am – Optimizing PFAS Removal: Bench-Scale Evaluation of Four Foam Fractionation Technologies

*Speakers: Fabrizio Sabba; Patrick Dunlap, Black & Veatch*

The presentation will provide an overview of four foam fractionation (FF) technologies for removing PFAS from landfill leachate. FF implementation depends on treatment objectives and an optimal balance of contact time, numerous treatment trains, and additional polishing step may be necessary for meeting regulatory requirements.



# Technical Program Details

## IW PRETREATMENT PROGRAM CONTINUED

### 11:15am-11:45am – Acronym Soup – The Many Types of Spill Plans and When They Apply

*Speaker: Kara Humes, Entech Engineering, Inc.*

If liquids are involved, spills are practically inevitable. Environmental regulations require industries and municipalities to develop and implement various spill prevention/response plans. Plans target protection of different areas/materials. Legal requirements of individual plans also differ. This presentation will help attendees understand the alphabet soup of the spill plan acronyms!

## TUESDAY AFTERNOON

## ARTIFICIAL INTELLIGENCE PROGRAM

*Moderators: Samantha Schmucker*

*Monitors: Mark Wolinsky/Sam Gibson*

### 1:00pm-1:30pm – Cybersecurity and Artificial Intelligence in Wastewater Treatment: Safeguarding Smart Systems

*Speaker: Jared Kroh- HRG, Inc.*

As wastewater treatment facilities adopt AI for efficiency and automation, cybersecurity becomes crucial to protect against threats like data breaches and system vulnerabilities. This presentation explores AI-driven advancements in wastewater management and the cybersecurity measures needed to safeguard smart systems. Attendees will gain insights into real-world applications, risk mitigation strategies, and the role of AI in enhancing both operational resilience and security.

### 1:35pm-2:05pm & 2:10pm-2:40pm – Panel Discussion: AI in Wastewater Management the Innovations, Challenges, and Future Prospects

*Speaker: Panel*

Artificial intelligence (AI) is transforming wastewater treatment, improving efficiency, predictive maintenance, and real-time monitoring. This panel discussion brings together experts to explore AI-driven advancements, including automated process optimization, data analytics, and smart decision-making in wastewater facilities. Panelists will examine key challenges such as integration, cybersecurity, and regulatory considerations, offering insights into best practices and emerging technologies. Attendees will gain a deeper understanding of AI's role in enhancing sustainability, operational resilience, and the future of wastewater treatment. This session provides a dynamic discussion on AI's impact, addressing practical applications and its evolving role in modern water management.

### 3:40pm-4:10pm – Unleashing the Power of Microsoft Copilot: Doing More with Less

*Speaker: Jared Kroh, HRG, Inc.*

In today's resource-constrained environments, organizations must find ways to streamline operations without sacrificing productivity or innovation. This session explores how Microsoft Copilot (Generative AI) can transform the way you tackle administrative tasks, reduce workloads, and enable employees to focus on higher-value activities. By automating document creation, data analysis, meeting summaries, and project management, Copilot empowers teams to do more with less

while driving greater consistency and accuracy. Attendees will gain practical insights into implementing Copilot to increase efficiency, optimize workflows, and improve decision-making across their organizations. Join us to discover how AI is redefining the modern workplace.

### 4:15pm-4:45pm – Summing Up: Key Takeaways

*Speaker: Autumn Crawford, Western Butler County Authority*

This session provides a high level review of the key takeaways for the day, tying them together into an overview of What Artificial Intelligence has done for us in Wastewater Treatment so far, What the industry is currently working on, and where the future might take us.

## COLLECTIONS SYSTEMS PROGRAM

### Pumps

*Moderators: Elizabeth Cheeseman; Alex King*

The afternoon will include a brief recap of the lessons learned in the morning session, and participant teams will work through an exhibitor scavenger hunt to find the best pump for their given scenario. Participants are encouraged to attend the entire day, however, the morning session is not a prerequisite for afternoon participation.

### 1:00pm-1:30pm – Pump Recap/Issues

### 1:35pm-2:05pm – Pick the pumps work with vendors

### 2:10pm-2:40pm – Pick the pumps work with vendors

### 3:40pm-4:10pm – Come back for discussion

### 4:15pm-4:45pm – Come back for discussion

## ENGINEERING & CONSTRUCTION PROGRAM

*Moderators: Maria White; Ben Briston*

### 1:00pm-1:30pm – Effects of Dissolved Oxygen on Nitrifying Communities in Wastewater Treatment Plants: Insights on Microbial Adaptation

*Speakers: Fabrizio Sabba; Patrick Dunlap, Black & Veatch*

This study investigates the behavior of nitrifying communities, including comammox, in wastewater treatment plants with varying nutrient removal and aeration control strategies. The research shows that microbial populations adapted to low DO environments maintain high rates at high DO concentrations, and long SRT operation can favor the persistence of comammox populations adapted to different DO concentrations.

### 1:35pm-2:05pm – Addressing Emerging NPDES Copper Limits for Wastewater Treatment Facilities

*Speaker: Taya Kotlyar, PE, GHD*

This presentation offers a comprehensive overview of a copper treatment project at Aqua Pennsylvania's 0.6 MGD White Haven WWTP, aimed at meeting newly established NPDES effluent copper limits. It covers baseline effluent sampling, jar testing, full-scale pilot testing, and post construction full-scale copper removal performance data.

# Technical Program Details

## ENGINEERING & CONSTRUCTION PROGRAM (CONTINUED)

### **2:10pm-2:40pm – Optimization of Chemical Disinfectant Dose with Application of Integrated Concentration Time (ICT) Dose Pacing: Three Case Studies**

*Speaker: Baris Kaymak, CDM Smith*

Due to the sharp price increase in hypochlorite, PVSC initiated a study to optimize chlorine dose strategy with integrated concentration time (ICT) dose pacing approach. A site-specific ICT Model was developed using laboratory scale tests. Implementing an ICT dose pacing approach would result in up to 18% chemical cost savings.

### **3:40pm-4:10pm – Best Steps for Rehabilitating Your Wastewater Tanks**

*Speaker: Christine Gunsaulus, The Tank Queen, LLC*

This presentation offers a proven step-by-step guide to rehabilitate wastewater tanks, covering essential topics like inspection, maintaining treatment during outages, budgeting, scheduling, technical specs, permitting, bidding, and construction. Case studies and lessons learned from past rehabilitations will also be shared to help wastewater professionals improve future maintenance efforts.

### **4:15pm-4:45pm – Construction of ALCOSAN's CSO Bypass and Disinfection Facilities – Where Are We Now?**

*Speaker: Joel Kostelac, PE, BCEE, GHD*

As part of their ongoing wet weather compliance program, the Allegheny County Sanitary Authority (ALCOSAN) continues their major plant expansion and upgrade projects. This presentation summarizes the design and focuses on the ongoing construction and constructibility of the ~300 MGD primary effluent bypass and disinfection system central to the facility.

## DRINKING WATER PROGRAM

*Moderator: Robert Dengler, GFT*

### **1:00pm-1:30pm – Navigating the PFAS Maze – PFAS Treatment Residuals Management**

*Speaker: Liz Garvey, Stantec*

EPA's updated PFAS MCLs is creating an influx of residuals management needs and destruction technologies. Updates to CERCLA/RCRA hazardous designations for PFAS will change outlooks for residuals handling, disposal, cost, and liability. This presentation will summarize latest regulations, disposal options, PFAS destruction technologies, and results of a utility survey for PFAS waste management strategies.

### **1:35pm-2:05pm – Go with the Flow: Upgrading Phoenixville's Water Intake**

*Speakers: James Bulicki & Paul Owen Remington & Vernick Engineers*

The Phoenixville Water Treatment Plant modernization project upgraded the raw water intake system with passive intake screens, a hydroburst cleaning system, and electrical enhancements. Key improvements included concrete encasement, streambank stabilization, and dewatering measures, ensuring operational efficiency, sustainability, and compliance with Pennsylvania Department of Environmental Protection (PA DEP) standards.

### **2:10pm-2:40pm – Transforming Water Treatment: Innovative Solutions for Emerging Contaminants**

*Speaker: Stephanie Cuthbert, PE; Remington & Vernick Engineers*

McCandless Township Sanitary Authority utilized prudent planning to design a WWTP upgrade elected to Phase the construction of the biological process upgrades consistent with future influent loads. Design efforts to model the process through phasing as well as construction and startup of Phase I will be compared to actual operational data experienced.

### **3:40pm-4:10pm – Lead Service Line Replacements – A Case Study in Data Management, Private Property Access and Customer Complaint Resolution**

*Speakers: Stephanie Cuthbert, PE; Christopher Gross, GISP, CFM, Remington & Vernick Engineers*

As EPA regulations take effect, utilities face the challenge of tracking, identifying and replacing numerous service lines, with data management being overwhelming. New Jersey utilities, already in the construction phase, have developed methods for inventory, tracking and accessing private properties. This presentation shares lessons and methodologies to streamline compliance and improve customer service.

### **4:15pm-4:45pm – Unknown Water Service Line Identification One Knock at a Time: Lessons Learned from New Jersey American Water's Service Line Canvassing Program**

*Speaker: Brian Lubenow, CDM Smith*

New Jersey American Water has 690,000 water services across 32 systems, including approximately 400,000 with unknown material. Understanding the critical need to identify unknown material services, they began an aggressive canvassing and interior inspection program in 2022. This presentation will focus on the logistics and best practices of this program.

## IW PRETREATMENT PROGRAM

*Moderator: Dave Schlott Jr, Arro Consulting*

### **1:00pm-1:30pm – AST Filters RCPG Abstract**

*Speaker: Garrett Kenney, AST Filters*

AST Filters presents our RCPG (recirculating polygyser) for wastewater pretreatment. This system can treat BOD, TSS, and Ammonia simultaneously. Our floating bead clarifiers are a fixed film process designed to be low maintenance and with a low operational cost.

### **1:35pm-2:05pm – Technical Review Criteria/ Significant Non-Compliance (TRC/SNC)**

*Speakers: Andrew Moore; Tori Morgan*

Understanding what Significant Non-Compliance and Technical Review Criteria mean to a Pretreatment Program and Industry. How is SNC calculated? What commercial/industrial users are subject to a SNC evaluation? What is TRC and how does it work into determining a compliance status? What happens to an industry that is determined to be in SNC or Pretreatment program that fails to address SNC? So many questions on determining IPP compliance answered.

### **2:10pm-2:40pm – PFAS: What we need to know today....**

*Speakers: Stacy Silva, Tori Morgan; Entech Engineering*



# Technical Program Details

## 3:40pm-4:10pm – Sustainability: What Does it Mean to Small to Large Industrial/Commercial Facilities?

*Speaker: Stacy Silva, Entech Engineering*

It seems that everywhere you look, the term “sustainability” is being headlined or referenced. But what exactly is sustainability, and what does it mean for business large and small? Learn how sustainable measures have many benefits for your organization from financial, competitive advantage, the ability to mitigate risks, creation of operating efficiencies and the ability to attract and retain talent. Little changes can make a big difference, no matter the size of your business or organization!

## 4:15pm-4:45pm – How to Read and Understand a Lab Report

*Speaker: John Weisman, Suburban Testing Labs*

Hear from the experts on how to read and understand a laboratory report. Get valuable insight as to the importance of a complete and accurate Chain of Custody, understand the report Quality Control, notes and definitions, and unit of measure. Why does it all matter and when to ask questions. Results matter and understanding the data is key to ensuring compliance.

## WEDNESDAY MORNING

## ENGINEERING & CONSTRUCTION PROGRAM

### Case Studies & Planning

*Moderators: Scott Armbrust; Ben Briston*

## 8:00am-8:30am – Managing Wastewater Residuals: Evaluating Bioenergy Systems Performance and Operational Strategies for Compliance

*Speakers: Chris deBarbadillo, Black & Veatch*

This presentation will provide an overview of a bioenergy system that combines anaerobic digestion and thermal hydrolysis process to manage wastewater residuals. This will include operational guidance and strategies for maintaining compliance in stringent regulatory environments and discuss impacts of implementing enhanced biological phosphorus removal and balancing bioenergy systems.

## 8:35am-9:05am – Anaerobic Digestion of Organics: Overview of Two Case Studies for CHP and RNG Resource Recovery

*Speaker: Dustin Craig, CDM Smith*

This presentation will discuss the diversion of organics, such as food waste and the co-digestion of these wastes with anaerobic digestion which generated biogas, a beneficial byproduct at two industry leading facilities, one generating heat & power (CHP) and another producing RNG (Renewable Natural Gas).

## 9:10am-9:40am – Keeping Granules Happy: Aerobic Granular Sludge Testing at Sand Island WWTP

*Speaker: Danelle Bishoff, Stantec Consulting Ltd.*

Aerobic granular sludge technology testing is underway at the Sand Island WWTP. This presentation will review the results of the three testing phases: 1) acclimate the granules to low strength, high salinity wastewater; 2) test the reactors with two different influent sources; and 3) evaluate the rate of granule formation.

## 10:10am-10:40am – Benefits of Hydrocyclones for WRRF Performance: Better Settling, Improved Nitrification... and Reduced E. coli?!

*Speaker: Samir Mathur, CDM Smith*

This presentation focuses on design and operational concepts using hydrocyclones to promote sludge densification. This includes a case study and full-scale design at a 30-MGD facility which operates a hydrocyclone on one of its aeration basins and has demonstrated sludge settleability improvements, resilient nitrification performance, and reduced *E. coli* levels prior to disinfection.

## 10:45am-11:15am – Value Engineering for Small Water & Wastewater Systems, Another Way to Get IIJA/BIL Funding!

*Speaker: James J. Rhoades, Jr., Benesch*

This presentation identifies how Value Engineering (VE) can be used in addressing the critical need for infrastructure in smaller systems. The goal of the presentation is to give attendees new ideas to implement VE methodology to ultimately obtain IIJA/BIL funding for their water resources projects. Case studies will be reviewed. 💧

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# Certification

## PA DEP Operator Certification

The PWEA Annual Technical Conference has been planned in accordance to the requirements of House Bill 183 (Act 11) and application has been submitted to the PA DEP to provide five wastewater operator contact hours. The PWEA is a PA DEP Approved Training Provider and is permitted to issue continuing education credit to water and wastewater operators.

To ensure you meet continuing education requirements, please refer to the Operator Certification 3-Year Renewal Cycle Schedule. **IMPORTANT: Contact hours received outside of your renewal cycle will not count toward your requirements.**

**To comply with accreditation sponsor requirements, the PWEA will require every attendee to check in and out of each half day timeslot by having room monitors or moderators scan your badge QR code.**

In order to track your hours you must download an app during registration. More information will come at a later date. You must attend at least 2.5 hours in each half day in order to qualify for contact hours. Each half day session is worth 1.0 contact hour.

In addition to the Conference contact hours, **five workshops have been approved by the PA DEP for additional credit.** These workshops will run concurrently with the Conference and may have extended hours. You will receive credit for either the

workshop or the Conference session, depending on what you attend during each timeslot.

**Please note: You may only receive credit for attending a specific workshop once during your renewal cycle. DEP will not count the same workshop more than once within a cycle. Please check your records to be sure you have not previously attended one of these workshops within your current cycle.**

## Continuing Education for Professional Engineers and Other Professionals

PWEA technical sessions are not pre-approved by state boards for licensed professionals. Therefore, it is not possible to guarantee their acceptance for certification purposes. PWEA will issue transcripts based on the attendance information provided from QR scans, which will be available at the Registration Area. Transcripts for professional engineers, geologists, land surveyors, and other professionals will show 3.0 professional development hours (PDH) per half day program. Time will be earned in half-day increments; partial time will not be issued. This time represents actual classroom hours. It is the responsibility of each individual to submit their PDH credit in the format required by their state licensing boards.

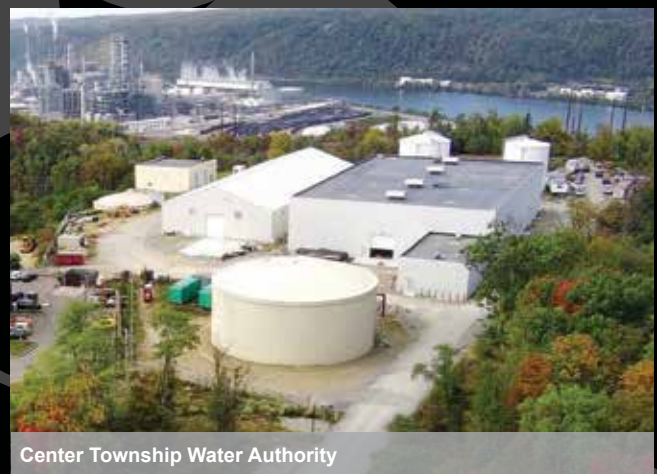
Certificates will be processed and emailed approximately one month after the Annual Conference.



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# PA DEP Certification Exams

The Pennsylvania Water Environment Association (PWEA) is offering PA DEP Operator Certification Exams on different dates at various locations in 2025. Register for your exam(s) through the PWEA online registration system at [pwea.org](http://pwea.org). Exam registration fees are: \$75 for PWEA members, and \$125 for non-members. Payment for exams is by credit/debit card only. Check the website for seat availability.

## Exam dates and locations – all exam times are 9:00am-1:00pm.

- Tuesday, August 12, 2025 – DEP NCRO, Williamsport Office – FULL
- Thursday, August 21, 2025 – DEP SWRO, Pittsburgh Office – FULL
- Tuesday, September 23, 2025 – Four Points Sheraton – Allentown Lehigh Valley, Allentown
- Wednesday, October 1, 2025 – DEP SWRO, Pittsburgh Office – FULL

## Not a member of PWEA?

Go to [www.pwea.org](http://www.pwea.org) to join online or to download the membership application form.

Members receive the PWEA member rate for the PennTec Conference and for PWEA training events.

Member benefits include the *Keystone Water Quality Manager*, a quarterly technical publication containing legislative updates, design/process operations articles, problem-solving case histories, and advance notice of continuing education. This valuable magazine also highlights current technology trends and issues affecting water quality.

You will also receive by email the monthly PWEA e-Newsletter, keeping you up-to-date on the latest water quality news and PWEA events.

If you have questions about PWEA, please contact the PWEA Administrative Office at 717-642-9500, or by email to [pwea@pwea.org](mailto:pwea@pwea.org).



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# Workshop Details

The following workshops are being offered during PennTec 2025 on June 23-25 at the Kalahari Resort. You may add these courses to your PennTec registration, or you may register for individual course(s) separately. You must register in advance for these courses. All courses are limited to 40 attendees, unless otherwise noted.

## Monday & Tuesday, 8:00am-5:00pm

### Activated Sludge Refresher Course

This course is PA DEP Approved for 16.0 wastewater contact hours.  
Course ID 3884

You must attend both days to earn DEP credit.

Partial credit will not be awarded.

*Instructors: Jeremy Miller, PA DEP; Walter Higgins, US EPA*

This course was developed as a preparatory course for the activated sludge certification exam as well as a refresher for certified operators. Students will be engaged in active classroom discussion as well as small group exercises. In advance of the training date, students will be provided with vocabulary and other training material to review before the classroom training. Interactive instruction and handouts explaining the activated sludge process, exam taking skills and practice math drills, general knowledge review, concept reinforcement, confidence building, homework, and a supportive learning environment are included. Registrants should bring a calculator, a notebook and a pen/pencil.

## Monday, 8:45am-11:30am

### A Laboratory Practices Committee Workshop

#### Laboratory Ethics

This course is PA DEP approved for 3.0 drinking water and wastewater contact hours.

Course ID 7364

*Instructor: Larissa Hoover, Alcosan*

This course provides detailed information for laboratory technicians and supervisors on the topic of lab ethics, based on Chapter 252. This course is for employees who need ethics refresher training for the laboratory every 14 months. The course discusses common definitions, state requirements, consequences and prevention of unethical behavior, conflict of interest, ethics policies and agreements, data control and legal defensibility, as well as red flags and data reporting.

## Tuesday, 8:00am-11:45am

### Responsibilities of Clean Water Professionals "Operator Ethics"

This course is PA DEP approved for 3.5 wastewater contact hours.  
Course ID 7122

*Instructors: Erick Ammon, Marc Neville, Kevin Buss, and Brandon Bettinger – PA DEP*

This training workshop, titled "Responsibilities of Clean Water Professionals", introduces the Wastewater Operator Code of Ethics, identifies elements of sustainable asset management, reviews cybersecurity and emergency planning for wastewater systems, and provides an overview of the laws, rules, and regulations that impact a certified wastewater operator in Pennsylvania. During the workshop, instructors guide attendees through a group exercise that presents "worst case scenario" conditions at a wastewater treatment facility caused by inadequate operation and maintenance of the facility by the permittee/owner and the certified wastewater operator. Attendees consider the scenario as an "ethical" consulting certified operator, using the information from the training to develop a strategy for effectively communicating existing facility conditions to the permittee and regulatory authorities and present corrective actions to bring the facility into compliance with the requirements set forth in the NPDES Permit and Department rules & regulations. Upon conclusion of this course, attendees will be ready to accept and carry out the responsibilities and rewards of being a Clean Water Professional.

## Wednesday, 8:00am-11:45am

### A Biosolids Committee Workshop

#### Solids Handling & Disposal

This course is PA DEP approved for 3.5 wastewater contact hours.  
Course ID 9165

*Instructors: Charles Winslow, GHD; Chris Boyd, Charter Machine; Howard Butler, GHD*

The purpose of this course is to provide an overview of current trends in biosolids thickening, processing, dewatering, and disposal. The core topics will include thickening technologies, anaerobic digestion, aerobic digestion, and solids management planning. Dewatering strategies and technologies will also be discussed, as well as biosolids disposal and beneficial use opportunities.

## Wednesday 8:00am-11:30am

### A Safety Committee Workshop

#### Excavation and Trenching Refresher

This course is PA DEP approved for 3.0 drinking water and wastewater contact hours.

Course ID 6501

*Instructor: Edwin Kauffman, RETTEW Associates*

The purpose of this excavation and trenching course is to serve as a refresher for students who have already completed an Excavation and Trenching Competent Person course. Attendees will focus on core topics including justification for training, underground services, electrical hazards, traffic control, and protective systems (shoring, benching, sloping).



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# Exhibit Hall Information

The Exhibit Hall is a very important part of the PennTec Conference. The exhibits will open on Monday at 9:45am and will close on Tuesday at 5:30pm. Visiting the vendors will be informational, educational, and it will also be fun!

## Raffle Prizes

Prizes will be raffled at different times throughout the Conference. Attendees registered for the conference will be given raffle tickets, and there will be marked containers placed randomly throughout the Exhibit Hall – one for each prize. Attendees can put as many of their tickets as they'd like in each marked container. Raffle tickets will be drawn in the Exhibit Hall at various times during the Conference. You must be present to win. Exhibitor representatives are not eligible for these drawings.



## Exhibit Hall Food Functions

Lunch, morning and afternoon breaks, and the President's Reception will be in the Exhibit Hall on Monday. Continental breakfast, morning & afternoon breaks, lunch, and the Beer & Pretzels/Wine & Cheese Reception will be in the Exhibit Hall on Tuesday.



## President's Reception

**Monday, 4:45-5:45pm**

Don't Miss the President's Reception! Join us for an evening of networking and refreshments. Enjoy complimentary beer and snacks while connecting with colleagues and exhibitors.

We look forward to seeing you there!

**There is no charge for this event.**



## Beer & Pretzels/Wine & Cheese Reception

**Tuesday, 4:45-5:45pm**

**FREE beer, wine, cheese, and pretzels** will be served! Come to the Hall to relax and visit with the vendors.

**There is no charge for this event.**



## Exhibit Hall Bingo

The PWEA Exhibits & Sponsors Committee organized this event for Monday and Tuesday during the Conference.

### How It Works:

Conference attendees will receive a Bingo card in their registration packets, along with a list of participating exhibitor names. Each participating exhibitor will be assigned a letter/number from the Bingo cards. Attendees will need to visit the exhibitors in order to have their cards stamped.

Once the squares are stamped horizontally, vertically or on the diagonal, the attendee will then turn in the card to a designated individual or booth just before the last break of each day (Monday or Tuesday) for confirmation. Attendees must be present to win and can only turn in one card, either on Monday or on Tuesday.

*Prizes will be awarded to all Bingo winners during the last Exhibit Hall break on Monday and on Tuesday. Winners will also be entered into a Prize Drawing on Monday and on Tuesday.*

## Car Racing in the Exhibit Hall

The Exhibits & Sponsors Committee is hosting the 3rd Annual Car Racing event!

Hot Wheels cars will be raced down a track within exhibit booths during breaks. Races will be in heats of 6-8 numbered cars. Winner of each heat advances to the final. Each heat winner and the overall winner will receive a gift card.





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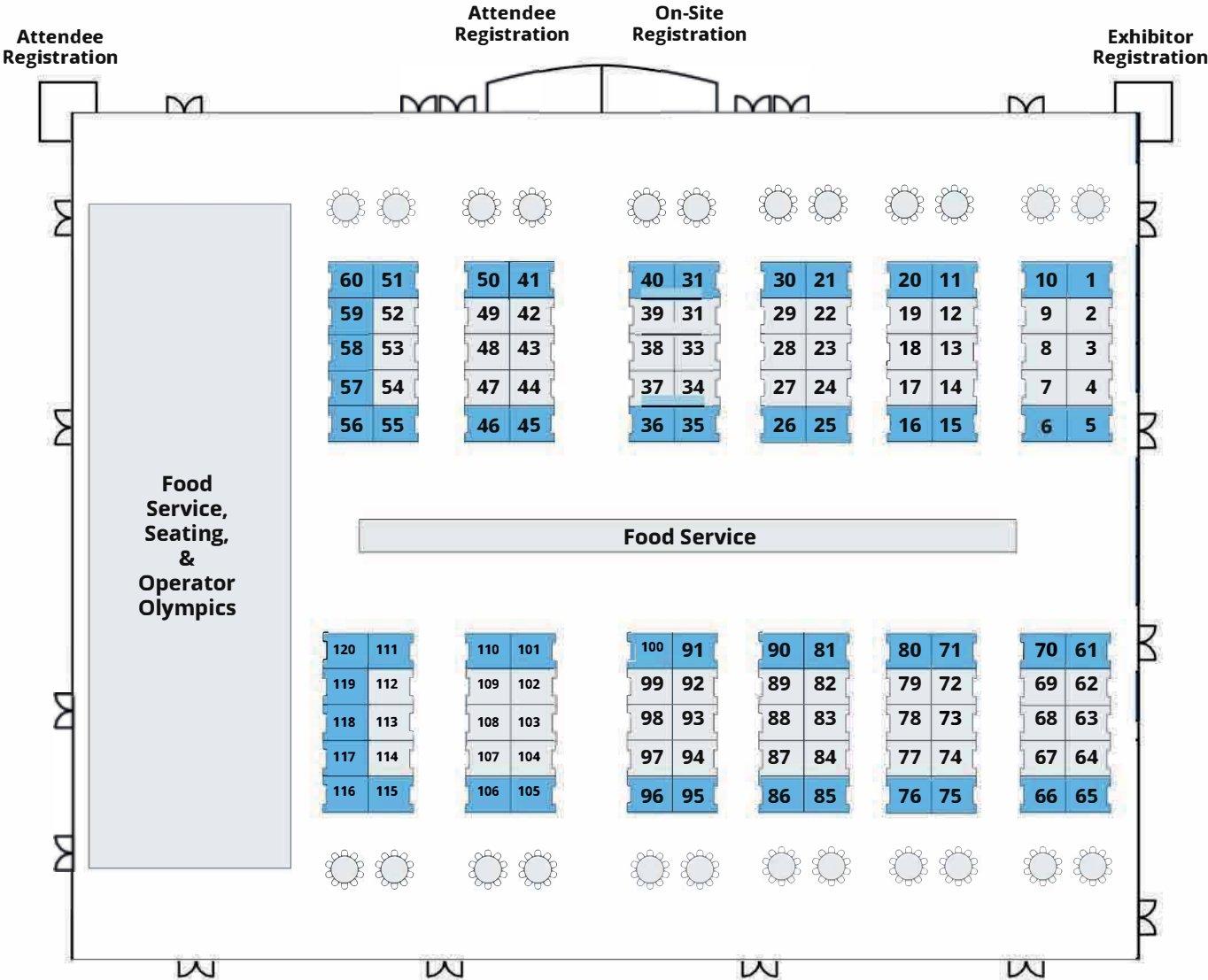
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# Exhibit Hall Floor Plan

## Kilimanjaro Ballroom





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# Exhibitor Listings

## A

### **A. C. Schultes, Inc.**

**Eric Fox**  
813 Colwell Rd.  
Swarthmore, PA 19081  
856-845-5656  
[eric\\_fox1@comcast.net](mailto:eric_fox1@comcast.net)  
**Booth 120**

### **ADS Environmental**

**Daniel Claus**  
921 Mercantile Dr.  
Hanover, MD 21076  
717-847-2005  
[dclaus@idexcorp.com](mailto:dclaus@idexcorp.com)  
**Booth 16**

### **Advanced Rehabilitation Technology**

**Rusty Hesselschwardt**  
525 Winzeler Dr., Unit 1  
Bryan, OH 43506-8849  
419-636-2684  
[rusty@artcoatingtech.com](mailto:rusty@artcoatingtech.com)  
**Booth 81**

### **Arro Consulting**

**Mike Schober**  
508 Thorngate Pl.  
Millersville, PA 17551  
717-205-4550  
[mikeschober@comcast.net](mailto:mikeschober@comcast.net)  
**Booth 80**

### **AssetGuard**

**John Lauletta**  
1567 Zion Dr.  
New Braunfels, TX 78132  
713-504-1764  
[john.lauletta@assetguardproducts.com](mailto:john.lauletta@assetguardproducts.com)  
**Booth 22**

### **Atlantic Coating Consultants/Tnemec**

**Wally Bates**  
108 Oak Creek Dr., Royersford  
PA, 19468  
610-551-3713  
[wally@acconsultants.com](mailto:wally@acconsultants.com)  
**Booth 89**

## B

### **Benesch**

**James Rhoades**  
400 Norwegian Plz.  
Pottsville, PA 17901-7090  
570-624-4269  
[jrhoades@benesch.com](mailto:jrhoades@benesch.com)  
**Booth 12**

### **Brenntag**

**Christopher Flannery**  
224 Stayman Rd.  
Roanoke, VA 24019  
540-353-9218  
[christopher.flannery@gmail.com](mailto:christopher.flannery@gmail.com)  
**Booth 62**

### **Buchart Horn, Inc.**

**Scott Russell**  
2009 N. Atherton St., Suite 200  
State College, PA 16803  
814-206-9312  
[scott russell@bucharthorn.com](mailto:scott russell@bucharthorn.com)  
**Booth 42**

## C

### **Certified Health & Safety Services**

**Amy DiFonzo**  
1902 Taylors Lane, Suite A  
Cinnaminson, NJ 08077  
856-829-4463  
[amy@certifiedhss.com](mailto:amy@certifiedhss.com)  
**Booth 94**

### **Charter Machine Company**

**Christopher Boyd**  
720 W. Prospect Ave.  
North Wales, PA 19454-2644  
732-589-5574  
[chrisb@chartermachine.com](mailto:chrisb@chartermachine.com)  
**Booth 56**

### **Colliers Engineering & Design**

**Ron Madison**  
941 Marcon Blvd., Suite 801  
Allentown, PA 18109  
610-868-4201  
[eventsteam@collierseng.com](mailto:eventsteam@collierseng.com)  
**Booth 71**

### **Corrpro**

**Jim Britt**  
470 Lapp Rd.  
Malvern, PA 19355  
216-904-9065  
[jbritt@azuria.com](mailto:jbritt@azuria.com)  
**Booth 28**

### **Costream**

**Christine Orlando**  
134 West Front St.  
Berwick, PA 18603  
570-520-4600  
[sales@costream.tech](mailto:sales@costream.tech)  
**Booth 100**

### **Coyne Chemical Environmental Services**

**Tim McComas**  
13006 Falls Rd.  
Cockeysville, MD 21030  
215-785-3000  
[tmccomas@coynechemical.com](mailto:tmccomas@coynechemical.com)  
**Booth 34**

### **CW Sales Corporation**

**Daniel Midgley**  
199 South Forrest Ave.  
Norristown, PA 19403  
610-277-6444  
[dmidgley@cwscorp.com](mailto:dmidgley@cwscorp.com)  
**Booth 86**

## D

### **Denali Water Solutions, LLC**

**Glen Knecht**  
250 Lucius Gordon Dr., Ste 8  
West Henrietta, NY 14586-9662  
518-222-5452  
[glen.knecht@denaliwater.com](mailto:glen.knecht@denaliwater.com)  
**Booth 29**

### **DN Tanks**

**Colin Rimel**  
5502 Silver Blaze Dr.  
Eldersburg, MD 21784  
443-325-4657  
[colin.rimel@dntanks.com](mailto:colin.rimel@dntanks.com)  
**Booth 57**

### **Drv Inc.**

**Scott Hinsch**  
1200 Randall Ct.  
Export, PA 15632  
412-247-4816  
[dshinsch@drv-inc.com](mailto:dshinsch@drv-inc.com)  
**Booth 41**

### **Dutchland, Inc.**

**Isaiah Lasche**  
160 PA-41  
Gap, PA 17527  
717-471-8405  
[ilasche@dutchlandinc.com](mailto:ilasche@dutchlandinc.com)  
**Booth 114**

## E

### **Entech Engineering, Inc.**

**Bryon Killian**  
201 Penn St.  
Reading, PA 19601  
570-640-6406  
[bkillian@entecheng.com](mailto:bkillian@entecheng.com)  
**Booth 50**

# Exhibitor Listings

## Envirep Aqua-Aerobic Park Process

**David Lounsbury**

3705 Trindle Rd.  
Camp Hill, PA 17011-4334  
815-654-2501  
[sales@envirep.com](mailto:sales@envirep.com)

**Booth 37**

## Eurofins Environment Testing

**Andrea Decola**

2425 New Holland Pike, 508 N 25th Street  
Lancaster, PA 17601  
908-809-9243  
[andrea.decola@et.eurofinsus.com](mailto:andrea.decola@et.eurofinsus.com)

**Booth 69**

## F

### Fieldforce

**Jon Hnat**

6 Four Coins Dr.  
Canonsburg, PA 15317  
724-678-9875  
[jwehler@keystonclear.net](mailto:jwehler@keystonclear.net)

**Booth 44**

### Fisher Scientific

**John Bailey**

300 Industry Dr.  
Pittsburgh, PA 15275  
412-992-1625  
[john.bailey@thermofisher.com](mailto:john.bailey@thermofisher.com)

**Booth 72**

### Flow Assessment Services, LLC

**Lucas Chapman**

72 Priscilla Ln.  
Auburn, NH 03032  
603-656-9799  
[lchapman@flowassessment.com](mailto:lchapman@flowassessment.com)

**Booth 36**

### Franklin Energy (FirstEnergy)

**Sandee Bloom**

4115 William Penn Hwy., Suite 204  
Murrysville, PA 15668  
724-691-6140  
[sbloom@franklinenergy.com](mailto:sbloom@franklinenergy.com)

**Booth 108**

## G

### G.M.H. Associates of America, Inc.

**Tony Genniro**

5 Chelton Wy., Building 15  
Trenton, NJ 08638  
609-658-3774  
[tgenniro@gmhassociates.com](mailto:tgenniro@gmhassociates.com)

**Booth 76**

### GA Industries, a Vag-group Brand

**Greg Clifford**

380 Glade Mills Rd.  
Valencia, PA 16059-3318  
724-776-1020  
[g.clifford@vag-group.com](mailto:g.clifford@vag-group.com)

**Booth 35**

### Gayle Corporation

**Wyllys Cass**

40 Lloyd Ave., Suite 202  
Berwyn, PA 19312  
610-296-0970  
[wcass@gaylecorp.com](mailto:wcass@gaylecorp.com)

**Booth 116**

### Geiger Pump And Equipment Co.

**Alan Greve**

830 Tryens Rd.  
Aston, PA 19014  
610-459-1212  
[agreve@geigerinc.com](mailto:agreve@geigerinc.com)

**Booth 8, 9, 10**

### George Kelso Company, LLC

**Jennifer Renninger**

364 Monte-Elma Rd.  
East Berlin, PA 17316-0743  
360-470-4108  
[jrenninger@kelsocompany.com](mailto:jrenninger@kelsocompany.com)

**Booth 110**

### GFT

**Roufai Alio**

207 Senate Ave.  
Camp Hill, PA 17011  
717-439-4752  
[mmehaffey@gfnet.com](mailto:mmehaffey@gfnet.com)

**Booth 31**

### Gilson Engineering Sales

**Jeff Neubert**

535 Rochester Rd.  
Pittsburgh, PA 15237  
412-369-0100  
[timk@gilsoneng.com](mailto:timk@gilsoneng.com)

**Booth 26**

### Golden Equipment Co., Inc.

**Ross Stafford**

P.O. Box 873  
Mars, PA 16046  
800-242-1494  
[golden4pa@hotmail.com](mailto:golden4pa@hotmail.com)

**Booth 118, 119**

### Grignard Company

**Roman Wisniews**

P.O. Box 873  
Mars, PA 16046  
800-242-1494  
[odalis.pizza@grignard.com](mailto:odalis.pizza@grignard.com)

**Booth 102**

### Gwin Dobson & Foreman, Inc.

**Steve Gibson**

3121 Fairway Dr., Suite 1  
Altoona, PA 16602-4496  
814-943-5214  
[sgibson@gdfengineers.com](mailto:sgibson@gdfengineers.com)

**Booth 11**

## H

### Hach

**Dave Unzicker**

459 Longleaf Dr.  
Perkasie, PA 18944  
267-245-2141  
[dunzicke@hach.com](mailto:dunzicke@hach.com)

**Booth 23**

### Hawkins, Inc.

**Melissa Kopka**

2381 Rosegate  
Roseville, MN 55113  
612-617-8609  
[melissa.kopka@hawkinsinc.com](mailto:melissa.kopka@hawkinsinc.com)

**Booth 24**

### Hayward Flow Control

**Dave Jeffe**

1 Hayward Industrial Dr.  
Clemmons, NC 27012  
336-592-5120  
[oelezovic@hayward.com](mailto:oelezovic@hayward.com)

**Booth 75**

### Herbert, Rowland & Grubic, Inc.

**Ella Quinn**

369 East Park Dr.  
Harrisburg, PA 17111  
717-564-1121  
[aclark@hrg-inc.com](mailto:aclark@hrg-inc.com)

**Booth 92**

### Hill Services, Inc.

**Marilyn Baron**

17464 W Bajada Rd.  
Surprise, AZ 85387-1000  
610-704-1804  
[mbaron@hillshere.com](mailto:mbaron@hillshere.com)

**Booth 30**



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## IDEXX Laboratories

**Adam Shaw**

One IDEXX Dr.  
Westbrook, ME 04092  
207-544-0904  
[adam-shaw@idexx.com](mailto:adam-shaw@idexx.com)

**Booth 70**

## Infiltrator Water Technologies

**Jessica Stiner**

654 4th St.  
Oakmont, PA 15139-1528  
800-221-4436  
[jstiner@infiltratorwater.com](mailto:jstiner@infiltratorwater.com)

**Booth 97**

## InfoSense, Inc.

**Heather McNeil**

2102 Cambridge Beltway Dr., Suite D-1  
Charlotte, NC 28273  
877-747-3245  
[hmcneil@infosense.com](mailto:hmcneil@infosense.com)

**Booth 59**

## Iron Horse Environmental, LLC

**Nick Picozzi**

P.O. Box 282  
Fairview Village, PA 19409-0282  
610-709-7986  
[npicozzi@ihe-llc.com](mailto:npicozzi@ihe-llc.com)

**Booth 65, 66**

## J

## Joos Equipment Company

**Eric Joos**

P.O. Box 368  
Paoli, PA 19301-0368  
610-644-5875  
[ejoos@joosequipment.com](mailto:ejoos@joosequipment.com)

**Booth 96**

## K

## Kappe Associates

**Andrew Buskirk**

6198 Butler Pike, Suite 150  
Blue Bell, PA 19422-2600  
610-927-4474  
[info@kappe-inc.com](mailto:info@kappe-inc.com)

**Booth 48, 49, 51, 52, 53, 54**

## Keystone Engineering Group, Inc.

**Jenney Walton**

590 Lancaster Ave., Suite 200  
Frazer, PA 19355  
610-295-1240  
[jwalton@kegi.net](mailto:jwalton@kegi.net)

**Booth 27**

## Klh Engineers, Inc.

**Kevin Hoffman**

5173 Campbells Run Rd.  
Pittsburgh, PA 15205-9733  
412-494-0510  
[khoffman@klhengineers.com](mailto:khoffman@klhengineers.com)

**Booth 99**

## L

## Larson Design Group

**Quay Schappell**

1000 Commerce Park Dr.  
Williamsport, PA 17701  
412-216-0757  
[mcolbaugh@larsondesigngroup.com](mailto:mcolbaugh@larsondesigngroup.com)

**Booth 117**

The image features a large, stylized logo for GD&F ENGINEERS. The logo consists of the letters 'GD&F' in a large, bold, serif font, with 'ENGINEERS' in a smaller, bold, sans-serif font below it. Below the logo is the website address 'GDFENGINEERS.COM'. The background is a light blue gradient with various engineering and environmental terms in different fonts and colors (white, dark blue, light blue) scattered around, creating a word cloud effect. Some of the visible terms include: SCADA, CO-ENERGY PROJECTS, CONVEYANCE, SSO/CSO, Nutrient Removal, Sewer, TREATMENT, Nutrient, SCADA, HYDRA, Ra, FUNDI, Co, SOLIDS, Funding, SYSTEM EVALUATIONS, Rate Studies, SCADA, Funding, Solids Management, Rehab, ACT 537 PLANNING, Evaluations, Collection, Hydraulics-Modeling, Act 53, SEWER REHAB, Treatment, System Eva, and Hydra.



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## **LB Water**

### **Ben Reichley**

593 S. High St.  
Selinsgrove, PA 17870  
570-374-2355  
[ben.reichley@lbh2o.com](mailto:ben.reichley@lbh2o.com)

**Booth 18**

## **LRM, Inc.**

### **Mark Crawford**

P.O. Box 244  
Hilltown, PA 18927  
215-721-4840  
[mcrawford.lrm@comcast.net](mailto:mcrawford.lrm@comcast.net)

**Booth 25**

## **LSSE Civil Engineers and Surveyors**

### **Lawrence Lennon**

846 4th Ave.  
Coraopolis, PA 15108-1582  
412-264-4400  
[ljlennonjr@lsse.com](mailto:ljlennonjr@lsse.com)

**Booth 107**

## **M**

## **Maryland Biochemical Co., Inc.**

### **Emily Douglass**

712 Tobacco Run Dr.  
Bel Air, MD 21015-1330  
410-734-9100  
[emily@marylandbiochemical.com](mailto:emily@marylandbiochemical.com)

**Booth 104**

## **Mercer Rubber**

### **David Bloom**

350 Rabro Dr.  
Hauppauge, NY 11788  
631-348-0282  
[dbloom@mason-ind.com](mailto:dbloom@mason-ind.com)

**Booth 115**

## **Mid Atlantic Biosolids Association**

### **Mary Baker**

203 Geary Ave.  
New Cumberland, PA 17040  
845-901-7905  
[mbaker@mabiosolids.org](mailto:mbaker@mabiosolids.org)

**Booth 3**

## **Mid Atlantic Pump & Equipment**

### **Dennis Zepp**

228 N. Rte 73  
Berlin, NJ 08009-9645  
856-768-3880  
[dzepp@mapeco.com](mailto:dzepp@mapeco.com)

**Booth 91**

## **Mid Atlantic Storage Systems, Inc.**

### **Ralph Wawrzyniakowski**

30 Sugar Dr.  
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717-706-0198  
[ralph@midatlanticstorage.com](mailto:ralph@midatlanticstorage.com)

**Booth 1**

## **Mobile Dredging & Video Pipe, Inc.**

### **John Clark**

3100 Bethel Rd.  
Chester, PA 19013  
610-497-9500  
[jclark@mdvpinc.com](mailto:jclark@mdvpinc.com)

**Booth 112**

## **Mott MacDonald**

### **Chris Henry**

Two Allegheny Ctr.,  
Nova Tower 2, Suite 1301  
Pittsburgh, PA 15212-5406  
412-497-2939  
[christopher.henry@mottmac.com](mailto:christopher.henry@mottmac.com)

**Booth 109**

## **Mr Rehab, LLC**

### **Allen Clark**

3 Long Ln.  
Mechanicsburg, PA 17050  
717-697-1242  
[aclark@azuria.com](mailto:aclark@azuria.com)

**Booth 15**

## **Municipal Maintenance Company, Inc.**

### **Dan Hennessy**

1352 Taylors Ln.  
Cinnaminson, NJ 08077  
856-786-9434  
[dhennessy@mmc-nj.com](mailto:dhennessy@mmc-nj.com)

**Booth 60**

## **N**

## **National Gunite**

### **Shane Snyder**

111 Roosevelt Blvd.  
Johnstown, PA 15906  
814-533-5780  
[shane@nationalgunite.com](mailto:shane@nationalgunite.com)

**Booth 79**

## **Neo Water Treatment**

### **Bill Pettit**

6148 Baker School Rd.  
Trafford, PA 15085-2326  
724-309-9720  
[b.pettit@neomaterials.com](mailto:b.pettit@neomaterials.com)

**Booth 17**

## **North East Technical Sales**

### **Marc Gradwohl**

200 Foulke Ln.  
Springfield, PA 19064  
267-933-6624  
[jdezzi@netechsales.com](mailto:jdezzi@netechsales.com)

**Booth 105**

## **North End Electric/Environmental Services Corp**

### **Tina Seiwel**

1225 N. Keyser Ave.  
Scranton, PA 18504  
570-209-0847  
[tina.seiwel@northendelectric.com](mailto:tina.seiwel@northendelectric.com)

**Booth 63**

## **NSI Neal Systems, Inc.**

### **James Sheil**

122 Terry Dr.  
Newtown, PA 18940  
215-968-7577  
[jsheil@nealsystems.com](mailto:jsheil@nealsystems.com)

**Booth 95**

## **O**

## **Oldcastle Infrastructure**

### **Gabe Lederman**

10 Symmes Ct.  
Cranbury, NJ 19028  
640-203-0477  
[gabe.lederman@oldcastle.com](mailto:gabe.lederman@oldcastle.com)

**Booth 7**

## **Orenco Systems**

### **Mike Saunders**

814 Airway Ave.  
Sutherlin, OR 97479  
800-718-4023  
[searl@orencos.com](mailto:searl@orencos.com)

**Booth 98**

## **P**

## **PA Department of General Services – COSTARS Cooperative Purchasing Program**

### **Isaiah Smith**

1800 Herr St.  
Harrisburg, PA 17103  
717-991-7155  
[Isaiahsmith@pa.gov](mailto:Isaiahsmith@pa.gov)

**Booth 61**

## **PA One Call System, Inc.**

### **Maria White**

24 Garren Ln.  
Mountain Top, PA 18707-1131  
570-954-3545  
[mawhite@pa1call.org](mailto:mawhite@pa1call.org)

**Booth 64**

# Exhibitor Listings

## **Pace Analytical**

### **Julie Silvis**

1803 Philadelphia St.  
Indiana, PA 15701  
724-463-8378  
[julie.silvis@pacelabs.com](mailto:julie.silvis@pacelabs.com)

**Booth 77**

## **PaWARN**

### **Mike Snyder**

212 Whitetail Terr.  
Marysville, PA 17053  
717-880-1303  
[mikesnyder@pawarn.org](mailto:mikesnyder@pawarn.org)

**Booth 4**

## **Pennsylvania Municipal Authorities Association (PMAA)**

### **Mandi Glantz**

1000 North Front St., Suite 401  
Wormleysburg, PA 17043  
717-805-7864  
[glantz@municipalauthorities.org](mailto:glantz@municipalauthorities.org)

**Booth 2**

## **PipeAid**

### **Lauren Kozak**

330 Rush Alley, Suite 310  
Columbus, OH 43215  
614-695-6592  
[lauren.kozak@pipeaid.com](mailto:lauren.kozak@pipeaid.com)

**Booth 6**

## **PSI Process**

### **James Connor**

901 School St.  
Moosic, PA 18507-1600  
570-677-1919  
[james.connor@psiprocess.com](mailto:james.connor@psiprocess.com)

**Booth 32, 33**

## **PW Tech**

### **Chris Hubbard**

3705 Trindle Rd.  
Camp Hill, PA 17011-4334  
815-654-2501  
[sales@envirep.com](mailto:sales@envirep.com)

**Booth 39**

## **Pyrz Water – KET**

### **Bob Pyrz**

P.O. Box 107  
Harleysville, PA 19438  
215-256-8430  
[bob@pyrzwater.com](mailto:bob@pyrzwater.com)

**Booth 101**

## **R**

### **Radwell**

#### **TJ Skyrmer**

1 Millennium Dr.  
Willingboro, NJ 08046  
1-800-332-4336 ext.1109  
[tskymer@radwell.com](mailto:tskymer@radwell.com)

**Booth 68**

### **Ram Industrial Services, LLC**

#### **Mike Presutti**

1095 Montour West Industrial Pk., 2850  
Appleton Street, Suite D  
Camp Hill, PA 17011  
412-610-5388  
[mike.presutti@iss-na.com](mailto:mike.presutti@iss-na.com)

**Booth 93**

### **Rausch Electronics USA**

#### **Adam Baker**

1686 Opportunity Ave.  
Chambersburg, PA 17201  
717-709-1005  
[abaker@rauschusa.com](mailto:abaker@rauschusa.com)

**Booth 113**

### **Reiner Pump Systems, Inc.**

#### **Gregg Sermarini**

725 Gilbertsville Rd  
Pottstown, PA 19464  
973-347-9000  
[gsermarini@reinerpump.com](mailto:gsermarini@reinerpump.com)

**Booth 90**

### **Remington & Vernick Engineers**

#### **Vanessa Nedrick**

600 Hamilton St., Suite 320  
Allentown, PA 18101  
610-329-5801  
[vanessa.nedrick@rve.com](mailto:vanessa.nedrick@rve.com)

**Booth 45**

### **Repair Technology**

#### **Scott Carter**

430 N. 2nd St., 575 NJ-73 #5  
Emmaus, PA 18049  
856-701-7681  
[scarter@belzonareptech.com](mailto:scarter@belzonareptech.com)

**Booth 21**

### **Riordan Materials Corporation**

#### **Art Auchenbach**

6198 Butler Pike, Suite 150  
Blue Bell, PA 19422-2600  
610-927-4474  
[aauchenbach@riordanmat.com](mailto:aauchenbach@riordanmat.com)

**Booth 46, 47**

## **S**

### **Sentinel Water Solutions**

#### **John Van Buskirk**

1975 Waddle Rd.  
State College, PA 16803  
888-811-PFAS  
[jvb@sentinel-h2o.com](mailto:jvb@sentinel-h2o.com)

**Booth 78**

### **SewerAI**

#### **Mikayla Davis**

1646 N California Blvd., Suite 510  
Walnut Creek, CA 94596  
586-764-1176  
[mdavis23@sewerai.com](mailto:mdavis23@sewerai.com)

**Booth 103**

### **Sherwin-Williams Protective Coatings**

#### **Matt Vonderheide**

613 Windsor Ln.  
Flatwoods, KY 41139  
717-753-0653  
[matt.vonderheide@sherwin.com](mailto:matt.vonderheide@sherwin.com)

**Booth 14**

### **Stone Hill Contracting Co., Inc.**

#### **Bob Corvino**

P.O. Box 1370  
Doylestown, PA 18901  
215-340-1840  
[racorvino@stonehillcontracting.com](mailto:racorvino@stonehillcontracting.com)

**Booth 85**

## **T**

### **Thaddeus Stevens**

#### **Heath Edelman**

1100 East Orange St.  
Lancaster, PA 17102  
717-725-9623  
[edelman@stevenscollege.edu](mailto:edelman@stevenscollege.edu)

**Booth 13**

### **The RootX Company**

#### **Drew Raffensperger**

P.O. Box 7626  
Salem, OR 97306  
503-881-7105  
[drew@rootx.com](mailto:drew@rootx.com)

**Booth 43**

### **Trident Actuators**

#### **Michael Sturgill**

101 Pine St., Building 8A  
Holmes, PA 19043  
445-456-4115  
[msturgill@tridentactuators.com](mailto:msturgill@tridentactuators.com)

**Booth 55**



# Exhibitor Listings

## U

### Usabluebook

**Kelsey Ellis**

P.O. Box 9005

Gurnee, IL 60031

847-377-5162

[elangston@usabluebook.com](mailto:elangston@usabluebook.com)

**Booth 82**

### USG Water Solutions

**Nick Rapagnani**

1230 Peachtree St. NE, Suite 1100

Atlanta, GA 30309

770-313-6388

[nick.rapagnani@usgwater.com](mailto:nick.rapagnani@usgwater.com)

**Booth 19**

### USG, Inc.

**Bill Friedah**

1304 Slate Hill Rd.

Camp Hill, PA 17011

717-737-6092

[bfriedah@usginc.net](mailto:bfriedah@usginc.net)

**Booth 58**

## V

### VEGA Americas

**Brandon Reams**

3877 Mason Research Pkwy.

Lebanon, OH 45036

513-515-6465

[c.groom@vega.com](mailto:c.groom@vega.com)

**Booth 106**

### Veolia Gorman-Rupp

**Victoria Bates**

3705 Trindle Rd.

Camp Hill, PA 17011-4334

815-654-2501

[sales@envirep.com](mailto:sales@envirep.com)

**Booth 40**

### Vogelsang Ebara

**Tim Smith**

3705 Trindle Rd.

Camp Hill, PA 17011-4334

815-654-2501

[sales@envirep.com](mailto:sales@envirep.com)

**Booth 38**

## X

### Xylem Dewatering

**Beth Grannis**

145 Philo Rd. W.

Elmira, NY 14903

607-215-0668

[elizabeth.grannis@xylem.com](mailto:elizabeth.grannis@xylem.com)

**Booth 20**

### Xypex Chemical Corporation

**Lucas Mccann**

572 Leesville Rd.

Jackson, NJ 08527

609-618-8788

[lucas.mccann@xypex.com](mailto:lucas.mccann@xypex.com)

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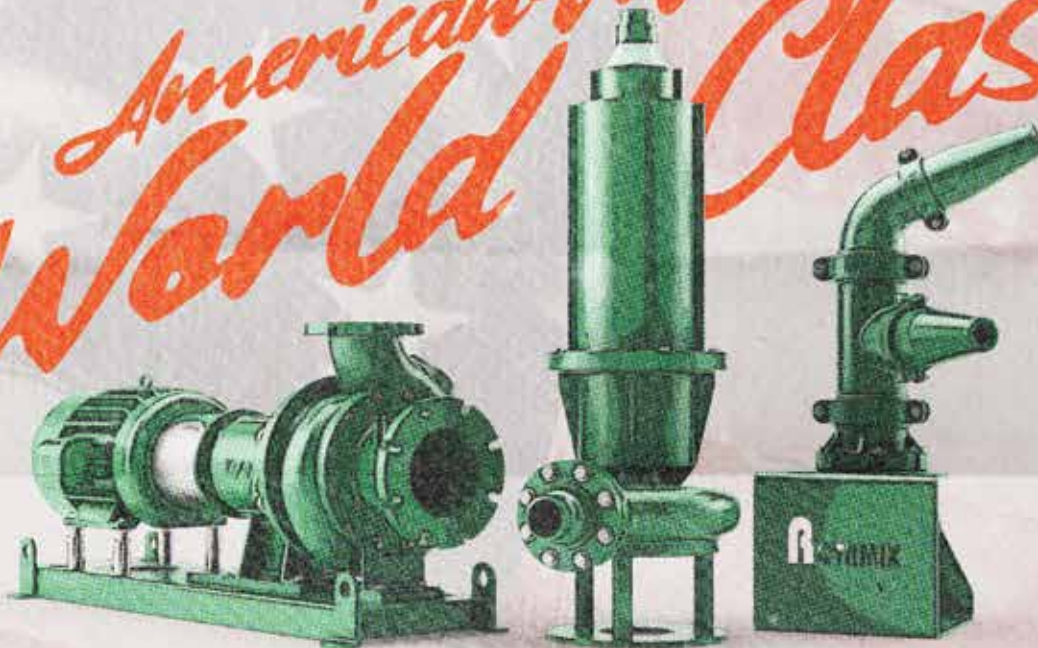
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- PLC—Programable Logic Control
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- NEMA Starter
- IEC Starter
- SCADA Systems
- Engineering & Design

# Student Research Presentations

Author's Name	Undergrad/Grad	Sponsoring University/College	Advisor	Title	Awards
 Manav Baid	Grad	University of Wisconsin-Madison	Daniel R. Noguera	Microaerating Anaerobic Digesters Reduces Hydrogen Sulfide in the Biogas	First Place Presentation
 Asa Lewis	Grad	Drexel University	Christopher M. Sales	Investigating PFAS Uptake in Freshwater Algal Microcosms: The Role of Environmental Factors	Second Place Presentation
 Allison Fenske	Grad	Penn State University	Nathan Warner	Intermediate Scale Testing of Recycled Concrete Aggregate as an Alternative Neutralizing Material for Acid Mine Drainage Passive Treatment	Third Place Presentation
 Catherine Sengstock	Grad	Widener University	Xiaochao Tang	Developing a Low-Carbon Geopolymer Cement Using Sewage Sludge Ash as Precursor	



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# Vendor Presentations


Room	Room Topic and Time Slot	Company	Presenter	Title	Email
<b>African Ballroom Suite 20</b>	Biosolids, Monday, 12:55-1:00pm	Charter Machine Co.	Christopher Boyd	Double Your Cake Solids in Under One Minute	<a href="mailto:chrisb@chartermachine.com">chrisb@chartermachine.com</a>
<b>Salon D</b>	Collection Systems, Monday, 12:55-1:00pm	Municipal Maintenance Co.	Daniel Hennessy	MMC – Service, Repair, Emergency Service, and New Equipment Sales	<a href="mailto:dhennessy@mmc-nj.com">dhennessy@mmc-nj.com</a>
<b>Salon C</b>	Engineering & Construction, Monday, 12:55-1:00pm	KELSO	Jennifer Renninger	Syntech Inc. – Fiberglass Reinforced Plastic Dome Covers	<a href="mailto:jrenninger@kelsocompany.com">jrenninger@kelsocompany.com</a>
<b>Salon A</b>	Stormwater, Monday, 12:55-1:00pm	MrRehab, LLC	Allen Clark	Trenchless Applications in Sanitary and Storm Sewer Collection Systems	<a href="mailto:aclark@azuria.com">aclark@azuria.com</a>
<b>Salon B</b>	Utility Management & Government Affairs, Monday, 12:55-1:00pm	DGS-COSTARS	Isaiah Smith	COSTARS 101	<a href="mailto:Isaiahsmith@pa.gov">Isaiahsmith@pa.gov</a>
<b>Salon D</b>	Collection Systems, Tuesday, 7:55-8:00am	Advanced Rehabilitation Technology	Rusty Hesselschardt	I&I and H2s Protection in Manholes and Wetwells	<a href="mailto:rusty@artcoatingtech.com">rusty@artcoatingtech.com</a>
<b>Salon C</b>	Engineering and Construction, Tuesday, 7:55-8:00am	Entech Engineering	Natalie L. O'Connor	Entech Engineering – Niche Services	<a href="mailto:noconnor@entecheng.com">noconnor@entecheng.com</a>
<b>Salon B</b>	Drinking Water, Tuesday, 7:55-8:00am	Keystone Engineering Group, Inc.	Jenney Walton	KEEPS-Preventative Maintenance	<a href="mailto:jwalton@kegi.net">jwalton@kegi.net</a>
<b>Salon A</b>	IW Pretreatment, Tuesday, 7:55-8:00am	Franklin Energy/ FirstEnergy	Sandee Bloom	Capturing Rebates from your Electric Utility Company	<a href="mailto:sbloom@franklinenergy.com">sbloom@franklinenergy.com</a>
<b>African Ballroom Suite 20</b>	Artificial Intelligence, Tuesday, 7:55-8:00am	DRV, Inc.	Scott Hinsch	Variable Frequency Drives for Pump Control	<a href="mailto:dshinsch@drv-inc.com">dshinsch@drv-inc.com</a>
<b>Salon D</b>	Collection Systems, Tuesday, 12:55-1:00pm	InfoSense, Inc.	Heather McNeil	Acoustic Inspection for Collection Systems	<a href="mailto:hmcneil@infosense.com">hmcneil@infosense.com</a>
<b>Salon C</b>	Engineering and Construction, Tuesday, 12:55-1:00pm	Maryland Biochemical Company	Emily Douglass	Wet Well Mixing	<a href="mailto:emily@marylandbiochemical.com">emily@marylandbiochemical.com</a>
<b>Salon B</b>	Drinking Water, Tuesday, 12:55-1:00pm	North East Technical Sales	David Yankow	North East Technical Sales – Product Offerings	<a href="mailto:d3yankow@netechsales.com">d3yankow@netechsales.com</a>
<b>Salon A</b>	IW Pretreatment, Tuesday, 12:55-1:00pm	DRV, Inc.	Scott Hinsch	Variable Frequency Drives for Pump Control	<a href="mailto:dshinsch@drv-inc.com">dshinsch@drv-inc.com</a>
<b>African Ballroom Suites 20</b>	Artificial Intelligence, Tuesday, 12:55-1:00pm	Denali Water Solutions	Glen Knecht	Residuals Management	<a href="mailto:glen.knecht@denaliwater.com">glen.knecht@denaliwater.com</a>
<b>Salon A</b>	Engineering and Construction, Wednesday, 7:55-8:00am	FieldForce Pumping & Power Solutions	Jeff Wehler	Designing Customized Bypass Solutions for Temporary Pumping Applications	<a href="mailto:jwehler@keystoneclear.net">jwehler@keystoneclear.net</a>





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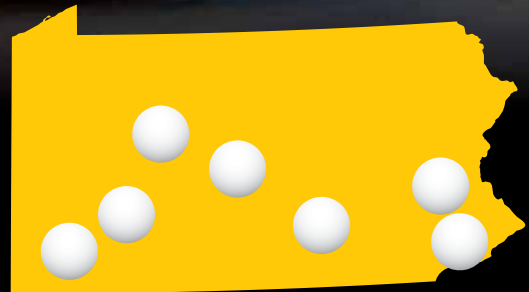
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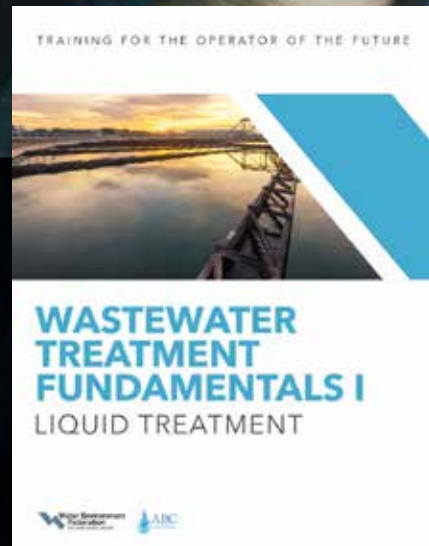
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