



2025 Annual Conference

March 24-27, 2025



WWW.PRWA.COM/CONFERENCE

Penn Stater Hotel & Conference Center | State College, PA

CONFERENCE SCHEDULE OVERVIEW

Monday, March 24, 2025

5:30 pm - 8:00 pm	Welcome Dinner with Tommy Wareham <i>"The Piano Man"</i>
8:00 pm	PRWA Bingo!

Monday Evening Events

Welcome Dinner with
Tommy Wareham *"The Piano Man"*
5:30 PM - 8:00 PM
Sponsored by: Core & Main



We start off the conference with an evening of refreshments, a light dinner, and music by Tommy Wareham, *"The Piano Man"*.

PRWA Bingo!
8:00 PM

Sponsored by: National Water Specialties Company



Come try your luck at Bingo, Rural Water Style!
Prizes will be given out to the lucky winners!

Tuesday, March 25, 2025

		DEP Class #	Trainer	
9:00 am - 12:30 pm	1-01 Coming Soon - New Board and New Manager Track! (DW & WW)	*	Industry Specialist	
	1-02 Public Communication in the Instant Information Age - Lead, Copper (LCR) and PFAS (DW & WW)	9205	Mike McGill - <i>WaterPIO</i>	
	1-03 Gas Chlorination and On-Site Hypochlorite Generation Technology (DW & WW)	9418	George Solymosi, Patrick Greer, Ray Kyle - <i>Environmental Service & Equipment Co., Inc.</i>	
	1-04 Proper Sampling Techniques and Handling (DW & WW)	7536	Sara Kuzma-Stump - <i>Suburban Testing Labs</i>	
	1-05 Introduction Locator Class - PA One Call (DW & WW)	5491	Blaire Prough - <i>PA One Call</i>	
	1-06 Confined Space (DW & WW)	2588	William Kasper - <i>Industry Specialist</i>	
	1-07 Flow Measurement Methods and Principles (DW & WW)	6528	Mark Crawford, Mack Crawford, Rich Lowrie - <i>LRM, Krohne Inc.</i>	
	1-08 How Do You Measure Up? Metering Non-Traditional Water Flows (DW & WW)	7515	Ben Reichley - <i>LB Water</i>	
	1-09 Course Development/Approval in Progress (TBA)	*	Industry Specialist	
	1-10 Advanced Disinfection Technologies for Water and Wastewater - PART 1 of 2 (*Must attend both for CH) (DW & WW)	7577	C. Michael Harrington - <i>Industry Specialist</i>	
	1-11 Wastewater Treatment Biological Processes (WW)	9356	Manuel de los Santos: Thea Davis - <i>Aqua-Aerobic Systems, Inc.</i>	
	1-12 Biosolids Thickening, Digestion, and Management (WW)	8853	Andy Glitzer, P.E., Christopher Boyd, Charles Windslow, P.E. - <i>GHD</i>	
	1-13 Understanding the ISO Fire Suppression Rating Schedule- Water Supply Evaluation (DW)	7754	Tyler D. Olsen, MA CFPS BCO, William Bekanich CFPS - <i>ISO Verisk</i>	
	1-16 Automatic Control Valves for Water Distribution Systems (DW)	8796	Jim Graber, Andrew Furman - <i>Cla-Val</i>	
	1-17 Disinfection Math Review - 3 hr (DW & WW)	8403	Industry Specialist	
	1-18 Wastewater General Exam Review (repeated in PM session) (WW)	1 CCH	Walter Higgins, Jeremy Miller - <i>USEPA; PADEP</i>	
	10:00 am	Annual Business Meeting		
	11:30 am - 1:30 pm	Lunch		
1:30 pm - 5:00 pm	2-01 Coming Soon - New Board and New Manager Track! (DW & WW)	*	Industry Specialist	
	2-02 Course Development/Approval in Progress (TBA)	*	Industry Specialist	
	2-03 CPR and First Aid Overview (DW & WW)	9402	Mark Stephens P.G. - <i>Industry Specialist</i>	
	2-04 Toxic and Combustible Gas Detection Practices (DW & WW)	8967	Steve Slavutsky; Taylor Kimble - <i>Draeger, Inc / Neal Systems Inc.</i>	
	2-05 Valve Workshop (DW & WW)	5348	Otto Schaefer, Chuck Krohg, Stephen Sharps - <i>CPMR - Ferguson; Mueller; Rockacy & Associates</i>	
	2-06 Membrane Filtration Basics for Water and Wastewater (DW & WW)	4064	Christopher M. Eckenrode, P.E. - <i>Gwin, Dobson & Foreman, Inc.</i>	
	2-08 Leadership Skills for Industry Professionals (DW & WW)	9600	Darryl Jenkins - <i>Chester Water Authority</i>	
	2-10 Advanced Disinfection Technologies for Water and Wastewater - PART 2 of 2 (*Must attend both for CH) (DW & WW)	7577	C. Michael Harrington - <i>Industry Specialist</i>	
	2-11 How do I run this DAMN BNR plant my Engineer just designed (WW)	5803	Ed Pietroski, P.E. - <i>Entech Engineering, Inc.</i>	
	2-12 Science of Manhole Inspections (WW)	8471	J. Scott Shipe - <i>Scott Infrastructure Science</i>	
	2-13 Asset Management & Asset Maintenance for Water Systems (DW)	9330	Nick Rapagnani, Dan Frum - <i>USG Water</i>	
	2-14 Groundwater Supply Development in Pennsylvania (DW)	8466	Chris Finton, P.G. - <i>ARM Group LLC</i>	
	2-15 Phosphorus - A Holistic Approach to Corrosion Control and Water Quality (DW)	9190	Matt Tyrrell, Dave Linville, Colin Barrett - <i>AquaSmart, Inc.</i>	
	2-16 From Leak Detection to Leak Management (DW)	7749	George Kunkel, P.E. - <i>Kunkel Water Efficiency Consulting</i>	
	2-17 Course Development/Approval in Progress (TBA)	*	Industry Specialist	
	2-18 Wastewater General Exam Review (repeated in AM session) (WW)	1 CCH	Walter Higgins, Jeremy Miller - <i>USEPA; PADEP</i>	
	5:00 pm - 6:30 pm	Exhibit Hall Open		
	6:30 pm - 9:00 pm	Meet & Greet Party at Champ's - Transportation provided to and from sponsored hotels		

*Courses worth 3 PADEP Contact Hours, unless otherwise noted.

Reminder: Hotel Room Blocks open on Monday Evening!

Tuesday Morning Classes

9 am to 12:30 pm

**Courses worth 3 PADEP Contact Hours, unless otherwise noted.*

- 1-01 Coming Soon - New Board and New Manager Track!**: This new track is currently under development. Are you a new board member or manager and need an overview of the water/wastewater industry? Plan to come hear from our industry experts. More details coming! *Trainer: Industry Specialist Earn 1 DW & WW CH*
- 1-02 Public Communication in the Instant Information Age - Lead, Copper (LCR) and PFAS**: Participants will learn how to create and implement a variety of crisis communications plans. The course will cover communications processes throughout the initial and ongoing stages of the crisis. Updated with the latest on LCR, PFAS and Fluoride. *Trainer: Mike McGill - WaterPIO Earn 3 DW & WW CH*
- 1-03 Gas Chlorination and On-Site Hypochlorite Generation Technology**: This course provides an overview of chlorine disinfection processes commonly used in water and wastewater treatment. The primary focus is gas chlorination and some information on the basics of on-site hypochlorite generating systems. *Outside Demo - Dress appropriately. Trainer: George Solymosi, Patrick Greer, Ray Kyle - Environmental Service & Equipment Company, Inc. Earn 3 DW & WW CH*
- 1-04 Proper Sampling Techniques and Handling**: This class will provide an overview of SDWA and CWA sampling regulations, sampling procedures and proper handling, including Chain of Command. This class will show the importance of proper sampling to yield correct data which is submitted to the PA DEP. *Trainer: Sara Kuzma-Stump - Suburban Testing Labs Earn 3 DW & WW CH*
- 1-05 Introduction Locator Class - PA One Call**: To prevent damage to underground facilities. To promote safety POCS provides an efficient communications network among designers, excavators and facility owners / operators. *Trainer: Blaire Prough - PA One Call Earn 3 DW & WW CH*
- 1-06 Confined Space**: This course was developed to help operators make the right choices based on knowledge of the hazards of a confined space and OSHA regs. *Trainer: William Kasper - Industry Specialist Earn 3 DW & WW CH*
- 1-07 Flow Measurement Methods and Principles**: This course covers the most common technologies employed and principles of operation related to typical flow measurement applications for measuring liquid and gaseous flow rates. Topics covered include means of verification and/or calibration. *Trainer: Mark Crawford, Mack Crawford, Rich Lowrie - LRM, Krohne Inc. Earn 3 DW & WW CH*
- 1-08 How Do You Measure Up? Metering Non-Traditional Water Flows**: This course covers conventional flow measurement through current technologies to meter non-traditional water flows. This includes partially filled pipes, troughs, weirs, flumes, channels, sub-metering in pressurized pipes, etc. *Trainer: Ben Reichley - LB Water Earn 3 DW & WW CH*

1-09 Course Development/Approval in Progress: This course is currently undergoing the development and PADEP review and approval process. Check back for title, description and details after Contact Hour approval! *Trainer: Industry Specialist Earn TBA CH*

1-10 Advanced Disinfection Technologies for Water and Wastewater PART 1 of 2 (*Must attend both for CH): Full day course. Must attend both Part 1 and Part 2 for CH. This class reviews chlorination basics utilizing gas, solid and liquid and then covers alternatives, such as chlorine dioxide and chloramination. Advantages and disadvantages of each are covered. *Trainer: C. Michael Harrington - Industry Specialist Earn 6 DW & WW CH*

1-11 Wastewater Treatment Biological Processes: This course covers the treatment processes required for removal of the main influent constituents, highlighting the nutrients present in wastewater and how these are removed by emerging treatment technologies. *Trainer: Manuel de los Santos: Thea Davis - Aqua-Aerobic Systems, Inc. Earn 3 WW CH*

1-12 Biosolids Thickening, Digestion, and Management: This course covers the basics of biosolids handling and disposal, including mechanical and gravity thickening, anaerobic digestion, digested solids processing, and disposal management. *Trainer: Andy Glitzer, P.E., Christopher Boyd, Charles Winslow, P.E. - GHD Earn 3 WW CH*

1-13 Understanding the ISO Fire Suppression Rating Schedule-Water Supply Evaluation: This course covers the impact that a water service provider has on the communities it serves as it pertains to commercial and residential property insurance. *Trainer: Tyler D. Olsen, MA CFPS BCO, William Bekanich CFPS - ISO Verisk Earn 3 DW CH*

1-16 Automatic Control Valves for Water Distribution Systems: This course familiarizes the operator with the operation, troubleshooting and required maintenance of automatic control valves. Additional emphasis will be given to preventative maintenance and main valve rebuilds. *Trainer: Jim Graber, Andrew Furman - Cla-Val Earn 3 DW CH*

1-17 Disinfection Math Review - 3 hr: This course covers math calculations operators need to perform when using gas chlorination and hypochlorite disinfection. Good math review for disinfection exams. *Trainer: Industry Specialist Earn 3 DW & WW CH*

1-18 Wastewater General Exam Review (repeated in PM session): Review for those taking the wastewater certification exams in 2025. During this session review will focus on the General Exam. This is repeated Tuesday afternoon. *Trainer: Walter Higgins, Jeremy Miller - USEPA; PADEP Earn 1 WW CH*

Tuesday Afternoon Classes

1:30 pm to 5:00 pm

**Courses worth 3 PADEP Contact Hours, unless otherwise noted.*

2-01 Coming Soon - New Board and New Manager Track!: This new track is currently under development. Are you a new board member or manager and need an overview of the water/wastewater industry? Plan to come hear from our industry experts. More details coming! *Trainer: - Industry Specialist Earn 1 DW & WW CH*

- 2-02 Course Development/Approval in Progress:** This course is currently undergoing the development and PADEP review and approval process. Check back for title, description and details after Contact Hour approval! *Trainer: Industry Specialist Earn TBA CH*
- 2-03 CPR and First Aid Overview:** The nature of our work makes accidents and injuries possible. Staff may need to provide basic first aid or CPR until medical professionals arrive. This course provides an overview of these skills. No certification is offered. *Trainer: Mark Stephens P.G. - Industry Specialist Earn 3 DW & WW CH*
- 2-04 Toxic and Combustible Gas Detection Practices:** This course will cover atmospheric hazards, identification of those hazards, choosing the proper equipment for identification, and maintenance of that equipment. *Trainer: Steve Slavutsky; Taylor Kimble - Draeger, Inc / Neal Systems Inc. Earn 3 DW & WW CH*
- 2-05 Valve Workshop:** This course educates on the importance of proper valve function, maintenance and repair for water and wastewater operators. We will cover the proper applications, performance and technical specifications for gate, butterfly and check valves. *Trainer: Otto Schaefer, Chuck Krohg, Stephen Sharps - CPMR - Ferguson; Mueller; Rockacy and Associates Earn 3 DW & WW CH*
- 2-06 Membrane Filtration Basics for Water and Wastewater:** This course covers the basics of membrane filtration for public water and wastewater treatment systems in PA. Includes membrane filtration types, principles of operation, components, applications, pros and cons, and case studies. *Trainer: Christopher M. Eckenrode, P.E. - Gwin, Dobson & Foreman, Inc Earn 3 DW & WW CH*
- 2-08 Leadership Skills for Industry Professionals:** This course assists new and experienced leaders in navigating these conditions, with a focus on understanding the organizational structure, their personal leadership style, and the expectations of a leader in a water utility. *Trainer: Darryl Jenkins - Chester Water Authority Earn 3 DW & WW CH This course is also offered on Thursday afternoon, Class #6-13.*
- 2-10 Advanced Disinfection Technologies for Water and Wastewater PART 2 of 2 (*Must attend both for CH):** Full day course. Must attend both Part 1 and Part 2 for CH. See Description for Session 1-10 - Tuesday morning. *Trainer: C. Michael Harrington - Industry Specialist Earn 6 DW & WW CH*
- 2-11 How do I run this DAMN BNR plant my Engineer just designed:** This course covers control parameters to operate an Activated Sludge Process plant designed for Biological Nutrient Removal (BNR). The course is geared to making the operator understand the day-to-day adjustments of running a BNR plant. *Trainer: Ed Pietroski, P.E. - Entech Engineering, Inc. Earn 3 WW CH*
- 2-12 Science of Manhole Inspections:** This course covers inspection of manholes. How to design inspection maps, develop a maintenance program as well as understanding flood plain elevations and soil types is reviewed. *Trainer: J. Scott Shipe - Scott Infrastructure Science Earn 3 WW CH*
- 2-13 Asset Management & Asset Maintenance for Water Systems:** Keep high-dollar, large, aging assets in service and maintained for as long as possible. What happens when they fail? Risks can be passive or active. Doing nothing is a type of action. *Trainer: Nick Rapagnani, Dan Frum - USG Water Earn 3 DW CH*
- 2-14 Groundwater Supply Development in Pennsylvania:** A review of the regulatory requirements pertaining to the construction and permitting of a public groundwater supply well. Includes wells for Community and Non-Community water supplies. *Trainer: Chris Finton, P.G. - ARM Group LLC Earn 3 DW CH*
- 2-15 Phosphorus - A Holistic Approach to Corrosion Control and Water Quality:** This course explores the relationship between corrosion control and other water quality treatment processes and the use of phosphorus-based chemical additives to address these issues with an end goal of using less phosphorus. *Trainer: Matt Tyrrell, Dave Linville, Colin Barrett - AquaSmart, Inc. Earn 3 DW CH*
- 2-16 From Leak Detection to Leak Management:** This course will present a number of additional activities that water utilities can employ, along with traditional acoustic leak detection, to give them an effective way to control leakage in their systems. *Trainer: George Kunkel, P.E. - Kunkel Water Efficiency Consulting Earn 3 DW CH*
- 2-17 Course Development/Approval in Progress:** This course is currently undergoing the development and PADEP review and approval process. Check back for title, description and details after Contact Hour approval! *Trainer: Industry Specialist Earn TBA CH*
- 2-18 Wastewater General Exam Review (repeated in AM session):** Review for those taking the wastewater certification exams in 2025. During this session review will focus on the General Exam. This is a repeat of the Tuesday morning session. *Trainer: Walter Higgins, Jeremy Miller - USEPA; PADEP Earn 1 WW CH*

Tuesday Evening Events

Meet & Greet Party @ Champ's

6:30 PM - 9:00 PM

Sponsored by:

Gwin, Dobson & Foreman



Join us for great food and entertainment at one of State College's finest establishments. We offer transportation to and from all sponsored hotels.

Wednesday, March 26, 2025

		DEP Class #	Trainer	
7:00 am - 8:45 am	Continental Breakfast			
8:00 am - 11:30 am	3-01 Coming Soon - New Board and New Manager Track! (DW & WW)	*	Industry Specialist	
	3-02 Course Development/Approval in Progress (TBA)	*	Industry Specialist	
	3-03 Importance of Air Release Valves in Water and Wastewater Systems (DW & WW)	6820	D. Kim Sorensen, P.E. - <i>ARI USA, Rockacy & Associates</i>	
	3-06 Operation & Maintenance of Submersible Pumps (DW & WW)	6516	Sean Melrose, Chris Salstrom, Kenneth Kisamore - <i>Xylem, Inc</i>	
	3-07 Not All It's Cracked Up to Be - Our Failing Pipe Infrastructure (DW & WW)	7194	William Friedah, P.E., Matthew Quinn - <i>Utility Services Group, Inc., Entech Engineering, Inc.</i>	
	3-08 Intro to Geographic Information Systems (GIS) (DW & WW)	6817	Mike Emery - <i>PRWA</i>	
	3-09 Course Development/Approval in Progress (TBA)	*	Industry Specialist	
	3-10 Modern Trickling Filters (WW)	9413	Joshua Sablan; Scott Dunn - <i>Brentwood Industries; Bethel Park WWTP & SKG Containment</i>	
	3-11 Holistic Approach to Inflow and Infiltration (WW)	9409	Don LeBlanc, Chris Hamilton - <i>DLVEWS, Inc., Avanti Group</i>	
	3-12 Instrumentation for Nutrient Optimization (WW)	9225	Marc Neville - <i>PADEP</i>	
	3-13 Electrical Hazards: Metallic Water Service Lines and Mains (DW)	7418	Dale Skinner - <i>Industry Specialist</i>	
	3-14 Science of Dry Barrel Fire Hydrant Inspection and Comprehensive Audits (DW)	9152	J. Scott Shipe - <i>Scott Infrastructure Science</i>	
	3-15 Disinfection for Small Water Systems (DW)	6815	John Kurtz - <i>Accent PDIR</i>	
	3-16 Pennsylvania Geology and Aquifer Characteristics (DW)	6814	Mark Stephens P.G. - <i>Industry Specialist</i>	
	3-17 DW Exam Review Part 1 of 4: General Exam (DW)	1 CCH	Wendy Malehorn - <i>PRWA</i>	
	3-18 WW Exam Review Part 1 of 4 - Activated Sludge (WW)	1 CCH	Tom Goehring - <i>PRWA</i>	
	11:30 am - 1:30 pm	Lunch - Exhibit Hall Open		
	1:30 pm - 5:00 pm	4-01 Coming Soon - New Board and New Manager Track! (DW & WW)	*	Industry Specialist
4-02 Course Development/Approval in Progress (TBA)		*	Industry Specialist	
4-03 Basic Electrical, Instrumentation, Controls and SCADA for Operators (DW & WW)		7501	Adam Menko P.E.; Dan Saulnier - <i>Keystone Engineering Group, Inc.</i>	
4-04 Medical Emergency Response and Care (DW & WW)		6805	Bob Stakem, M.Ed. - <i>Industry Specialist</i>	
4-05 Basics of Centrifugal Pumps and Hydraulics (DW & WW)		9131	Brian Sekula, P.E. - <i>Industry Specialist</i>	
4-06 Course Development/Approval in Progress (TBA)		*	Industry Specialist	
4-09 PFAS Sample Collection, Preparation and Analysis (DW & WW)		9417	Richard Stump, Sara Kuzma-Stump - <i>Suburban Testing Labs</i>	
4-10 Collection System Inspections for Failing Infrastructure (WW)		3611	Michael Paladino, Tim Lester, P.E.; Bryon Killian - <i>Utility Services Group, Inc., Entech Engineering, Inc.</i>	
4-11 Nutrient Removal Processes in Wastewater Treatment (WW)		6270	Chris Hannum, P.E. - <i>Entech Engineering, Inc.</i>	
4-12 Science of Pipe Cleaning: Levels Leading to Tier III (WW)		8968	Dan Story - <i>KEG / A&H Equipment Co. Inc.</i>	
4-13 Protecting Our Waters at the Source - Stormwater Issues (DW)		7503	Colin Gardner, Ryan Origitano - <i>Stormwater Solution Source, LLC, PRWA</i>	
4-14 Filter Inspections, Optimization and Compliance (DW)		8424	Matt Seeker - <i>Water Service Professionals</i>	
4-15 Water Loss Management (DW)		3621	Ian Moore, Dustin Miller - <i>Exeter Supply</i>	
4-16 Full Circumferential Pipe Repair Methods: on 2" to 30" Watermain Breaks, Splits, Leaks, Bell Joint Repair. (DW)		8830	Mark Langenhan - <i>Dresser Utility Solutions</i>	
4-17 DW Exam Review Part 2 of 4: Math Concepts (DW)	1 CCH	Wendy Malehorn - <i>PRWA</i>		
4-18 WW Exam Review Part 2 of 4 - Activated Sludge (WW)	1 CCH	Tom Goehring - <i>PRWA</i>		
5:00 pm - 8:00 pm	Exhibit Hall Extravaganza with a chance to win a Disney Dream Vacation Giveaway			
7:30 PM	Golf Simulator			
8:30 PM	Cornhole Tournament with Music by Tommy Wareham & the Intrigues			

*Courses worth 3 PADEP Contact Hours, unless otherwise noted.

Wednesday Morning Classes

8:00 am to 11:30 am

**Courses worth 3 PADEP Contact Hours, unless otherwise noted.*

- 3-01 Coming Soon - New Board and New Manager Track!:** This new track is currently under development. Are you a new board member or manager and need an overview of the water/wastewater industry? Plan to come hear from our industry experts. More details coming! *Trainer: Industry Specialist Earn 1 DW & WW CH*
- 3-02 Course Development/Approval in Progress:** This course is currently undergoing the development and PADEP review and approval process. Check back for title, description and details after Contact Hour approval! *Trainer: Industry Specialist Earn TBA CH*
- 3-03 Importance of Air Release Valves in Water and Wastewater Systems:** This course covers air valve design and maintenance, including surge effects of trapped air in pipelines, proper sizing, location and the health and safety effects resulting from negative pipeline pressure. *Trainer: D. Kim Sorensen, P.E. - ARI USA; Rockacy & Associates Earn 3 DW & WW CH*
- 3-06 Operation & Maintenance of Submersible Pumps:** This course acquaints the operator with the principles of operation and maintenance of submersible pumps. *Trainer: Sean Melrose, Chris Salstrom, Kenneth Kisamore - Xylem, Inc Earn 3 DW & WW CH*
- 3-07 Not All It's Cracked Up to Be - Our Failing Pipe Infrastructure:** This course covers the history of pipes, expected lifespans and considerations for line replacement. A combination of old pipes and earlier than expected failure of newer pipes has led to a "perfect storm" in our pipe infrastructures. *Trainer: William Friedah, P.E., Matthew Quinn - Utility Services Group, Inc., Entech Engineering, Inc. Earn 3 DW & WW CH*
- 3-08 Intro to Geographic Information Systems (GIS):** This course covers the basics of Geographic Information Systems (GIS) for mapping your water/wastewater system. Includes GIS hardware, software, background, data types and collection. *Trainer: Mike Emery - PRWA Earn 3 DW & WW CH*
- 3-09 Course Development/Approval in Progress:** This course is currently undergoing the development and PADEP review and approval process. Check back for title, description and details after Contact Hour approval! *Trainer: Industry Specialist Earn TBA CH*
- 3-10 Modern Trickling Filters:** This course covers strategies/best practices of optimizing trickling filter operation. Includes how to retrofit an existing trickling filter to increase treatment capacity and/or improve treatment level. *Trainer: Joshua Sablan; Scott Dunn - Brentwood Industries; Bethel Park WWTP & SKG Containment Earn 3 WW CH*
- 3-11 Holistic Approach to Inflow and Infiltration:** This course covers common Inflow and Infiltration (I&I) issues in wastewater collection systems. Topics include manhole rehabilitation including rings, composite covers, sealing, grouting and lining. *Trainer: Don LeBlanc, Chris Hamilton - DLVEWS, Inc., Avanti Group Earn 3 WW CH*

- 3-12 Instrumentation for Nutrient Optimization:** This course educates operators on the nitrification, denitrification, and phosphorus removal processes and how monitoring with various types of meters and probes can assist in optimization. *Trainer: Marc Neville - PADEP Earn 3 WW CH*
- 3-13 Electrical Hazards: Metallic Water Service Lines and Mains:** This course covers the causes of electrical hazards and the dangers of electrical shock from water lines. It reviews protective procedures and equipment to prevent electrical shock, and the dangers of thawing metallic water pipes with high DC or AC current. *Trainer: Dale Skinner - Industry Specialist Earn 3.5 DW CH*
- 3-14 Science of Dry Barrel Fire Hydrant Inspection and Comprehensive Audits:** This course will provide operators with the information to begin inspecting hydrants, common issues, and basic maintenance for hydrants. *Trainer: J. Scott Shipe - Scott Infrastructure Science Earn 3 DW CH*
- 3-15 Disinfection for Small Water Systems:** This session reviews the most common disinfection chemicals and methods. It will identify potential disinfection systems that provide control, data logging for reporting, and remote communications. *Trainer: John Kurtz - Accent PDIR Earn 3 DW CH*
- 3-16 Pennsylvania Geology and Aquifer Characteristics:** This course provides a basic understanding of the relation between geological and hydrological processes. It provides the fundamental concepts of quality, quantity of groundwater, and its relations to contaminate fate and transport. *Trainer: Mark Stephens P.G. - Industry Specialist Earn 3 DW CH*
- 3-17 DW Exam Review Part 1 of 4: General Exam:** Review for those taking the drinking water certification exams in 2025. During this session review will focus on the General Exam. NOTE: No Tuesday DW Exam Review sessions - use Tuesday for self-study or consider the Tuesday morning "Disinfection Math Review". *Trainer: Wendy Malehorn - PRWA Earn 1 DW CH*
- 3-18 WW Exam Review Part 1 of 4 - Activated Sludge:** Review for those taking the wastewater certification exams in 2025. During this session review will focus on Activated Sludge. *Trainer: Tom Goehring - PRWA Earn 1 WW CH*

Wednesday Afternoon Classes

1:30 pm to 5:00 pm

**Courses worth 3 PADEP Contact Hours, unless otherwise noted.*

- 4-01 Coming Soon - New Board and New Manager Track!:** This new track is currently under development. Are you a new board member or manager and need an overview of the water/wastewater industry? Plan to come hear from our industry experts. More details coming! *Trainer: - Industry Specialist Earn 1 DW & WW CH*
- 4-02 Course Development/Approval in Progress:** This course is currently undergoing the development and PADEP review and approval process. Check back for title, description and details after Contact Hour approval! *Trainer: Industry Specialist Earn TBA CH*

- 4-03 Basic Electrical, Instrumentation, Controls and SCADA for Operators:** This course covers the basics of how to work safely with electricity and how understanding your electrical setup ties together with all your system controls. Including the basics of industrial electrical systems, instrumentation, process controls, and SCADA systems. *Trainer: Adam Menko P.E. ; Dan Saulnier - Keystone Engineering Group, Inc. Earn 3 DW & WW CH*
- 4-04 Course Development/Approval in Progress:** This course is currently undergoing the development and PADEP review and approval process. Check back for title, description and details after Contact Hour approval! *Trainer: Industry Specialist Earn TBA CH*
- 4-05 Basics of Centrifugal Pumps and Hydraulics:** This course will review the basics of hydraulics, how to size and select a pump, reading impeller curves, and how to maintain centrifugal pumps. *Trainer: Brian Sekula, P.E. - Industry Specialist Earn 3 DW & WW CH*
- 4-06 Medical Emergency Response and Care:** This session provides an introduction to common medical and traumatic events. Operators will be provided with information on how to appropriately respond to these emergencies. There will be limited opportunity for hands-on practice of CPR methods. *Trainer: Bob Stakem, M.Ed. - Industry Specialist Earn 3 DW & WW CH This course is also offered on Thursday morning, Class #5-02.*
- 4-09 PFAS Sample Collection, Preparation and Analysis:** This course reviews current methods for PFOS and PFAS analysis and sampling procedures for water, wastewater, and solids. *Trainer: Richard Stump, Sara Kuzma-Stump - Suburban Testing Labs Earn 3 DW & WW CH*
- 4-10 Collection System Inspections for Failing Infrastructure:** This course will help systems find, inspect, and address the pressing problem of failing infrastructure. *Trainer: Michael Paladino, Tim Lester, P.E.; Bryon Killian - Utility Services Group, Inc., Entech Engineering, Inc. Earn 3 WW CH*
- 4-11 Nutrient Removal Processes in Wastewater Treatment:** Introduction to nitrogen and phosphorus removal within wastewater and will identify several treatment processes designed to remove nitrogen and phosphorus. This course will also provide a general understanding of the instrumentation used in BNR. *Trainer: Chris Hannum, P.E. - Entech Engineering, Inc. Earn 3 WW CH*
- 4-12 Science of Pipe Cleaning: Levels Leading to Tier III:** This course will cover proper pipe-cleaning routines and the correct tools in underground infrastructure maintenance. Understanding of fluid mechanics and jetting equipment will help with efficient, safe, and correct cleaning. *Trainer: Dan Story - KEG / A&H Equipment Co. Inc. Earn 3 WW CH*
- 4-13 Protecting Our Waters at the Source - Stormwater Issues:** This course covers Best Management Practices (BMPs) common to SWP and stormwater management. Understanding the inter-relationship between stormwater controls, source water area management and drinking treatment are critical for your community. *Trainer: Colin Gardner, Ryan Orgitano - Stormwater Solution Source, LLC, PRWA Earn 3 DW CH*
- 4-14 Filter Inspections, Optimization and Compliance:** This course covers the background on filter technology, backwashing principles, inspection methods and what is needed to comply with the new PA requirements on filter evaluations by water systems. *Trainer: Matt Seeker - Water Service Professionals Earn 3 DW CH*
- 4-15 Water Loss Management:** This course will provide systems with some simple ways to reduce unaccounted-for water and thus recover lost revenue. *Trainer: Ian Moore, Dustin Miller - Exeter Supply Earn 3 DW CH*
- 4-16 Full Circumferential Pipe Repair Methods: on 2" to 30" Watermain Breaks, Splits, Leaks, Bell Joint Repair.:** The process to repair various types of pipe involves assessing the damage, selecting the best repair method, and limiting interruption of service. This course covers types of products used, sizing, installation, and problems during the repair process. *Trainer: Mark Langenhan - Dresser Utility Solutions Earn 3 DW CH*
- 4-17 DW Exam Review Part 2 of 4: Math Concepts:** Math Concepts: Review for those taking the drinking water certification exams in 2025. During this session review will focus on basic math concepts. *Trainer: Wendy Malehorn - PRWA Earn 1 DW CH*
- 4-18 WW Exam Review Part 2 of 4 - Activated Sludge:** Review for those taking the wastewater certification exams in 2025. During this session review will focus on Activated Sludge (*note this is a continuation of the morning AM session*) *Trainer: Tom Goehring - PRWA Earn 1 WW CH*

Wednesday Evening Highlights:

Exhibit Hall Extravaganza & Disney Dream Vacation Giveaway

5:00 PM - 8:00 PM

Sponsored by:
Exeter Supply & Star Pipe



Come eat a delicious meal and visit with over 128 exhibitors.
Don't miss your chance to win a Disney Dream Vacation!

Golf Simulator

7:30 PM

Sponsored by: LB Water & Sensus



Have a killer golf swing? Prove it on a state-of-the-art driving simulator! Take a swing at winning some great prizes!

Cornhole Tournament

8:30 PM

Sponsored by: A&H Equipment



Come test your skills at this tailgate favorite while listening to live music by Tommy Wareham & The Intrigues.

Thursday, March 27, 2025

		DEP Class #	Trainer
7:00 am - 8:45 am	Continental Breakfast		
8:00 am - 11:30 am	5-01 Coming Soon - New Board and New Manager Track! (DW & WW)	*	Industry Specialist
	5-02 Course Development/Approval in Progress (TBA)	*	Industry Specialist
	5-03 Medical Emergency Response and Care (DW & WW)	6805	Bob Stakem, M.Ed. - <i>Industry Specialist</i>
	5-04 Basic Math Refresher (DW & WW)	5757	Brian Sekula, P.E. - <i>Industry Specialist</i>
	5-05 Lubrication 101- Application of Lubrication Fundamentals (DW & WW)	7173	Tom Martin - <i>Lubriplate Lubricants Co.</i>
	5-07 Line Locating Techniques and Tips (DW & WW)	8091	Jim Verga, Jim Flint - <i>Eastcom Associates</i>
	5-08 Emergency and Bypass Pumping - Sizing and Specifications (DW & WW)	9414	Jared Carothers, EIT - <i>Xylem Dewatering Solutions</i>
	5-09 Course Development/Approval in Progress (TBA)	*	Industry Specialist
	5-10 Responsibilities of Clean Water Professionals (WW) <i>*This class ends at Noon</i>	7122	Erick Ammon, Marc Neville, Kevin Buss, Brandon Bettinger - <i>PADEP</i>
	5-11 Reed Bed Systems for Biosolid Treatment (WW)	7773	Scott Davis, Harlan Davis - <i>Constructed Wetlands Group</i>
	5-12 Course Development/Approval in Progress (TBA)	*	Industry Specialist
	5-13 Fire Hydrant Operation and Maintenance (DW) <i>*This class ends at Noon</i>	5673	Ryan Caron, Tim Storch - <i>Kennedy Valve and M&H</i>
	5-14 Science of Water Main Breaks (DW)	9395	J. Scott Shipe - <i>Scott Infrastructure Science</i>
	5-15 Course Development/Approval in Progress (TBA)	*	Industry Specialist
	5-17 DW Exam Review Part 3 of 4: Distribution Exam (DW)	1 CCH	Wendy Malehorn - <i>PRWA</i>
5-18 WW Exam Review Part 3 of 4 - General and Collection (WW)	1 CCH	Tom Goehring - <i>PRWA</i>	
11:30 am - 1:30 pm	Lunch - Exhibit Hall Open		
1:30 pm - 3:45 pm <i>These Classes are Approved for 2 Contact Hours</i>	6-01 Course Development/Approval in Progress (TBA)	*	Industry Specialist
	6-03 Why We Chlorinate - the Basics (DW & WW)	6514	Nathan James, P.E. - <i>Larson Design Group</i>
	6-04 PVC Pipe and Fittings (DW & WW)	9135	Richard St-Aubin, P.E. - <i>IPEX USA</i>
	6-05 Active Shooter/Workplace Violence (DW & WW)	9425	James Reif; James Knapp - <i>J Reif Consulting</i>
	6-06 PFAS Management: What to do BEFORE you do it (DW & WW)	9224	Phil Farina, Mike Rizzo - <i>Clear Creek Systems, Inc.</i>
	6-07 Storage Tanks - Pros and Cons (DW & WW)	4099	Ralph Wawrzyniakowski - <i>Mid-Atlantic Storage Systems, Inc</i>
	6-08 Course Development/Approval in Progress (TBA)	*	Industry Specialist
	6-09 Course Development/Approval in Progress (TBA)	*	Industry Specialist
	6-10 Introduction to Smart Meters and Meter Reading Systems (DW)	9415	Sharon DelSignore - <i>EAP Industries, Inc.</i>
	6-11 Valve Insertion and Line Stopping (DW)	5484	Bill Roome - <i>Hydra-Stop</i>
	6-12 Purpose and Benefits of Tracer Studies in PWS (DW)	5440	Travis Long, CEP - <i>JHA Companies</i>
	1:30 pm - 5:00 pm	6-13 New Manager Track: Leadership Skills for Industry Professionals (DW & WW)	9600
6-15 Workplace Safety: Personal Protection Equipment (PPE) and Injury Prevention (DW & WW)		9604	Joe Zinobile, CSP - <i>PA L&I</i>
6-16 Lubrication 101- Application of Lubrication Fundamentals (DW & WW)		7173	Tom Martin - <i>Lubriplate Lubricants Co.</i>
6-17 DW Exam Review Part 4 of 4: Practice Questions (DW)		1 CCH	Wendy Malehorn - <i>PRWA</i>
6-18 WW Exam Review Part 4 of 4 - General and Collection (WW)		1 CCH	Phil Giunta - <i>PRWA</i>
3:45 pm	Ice Cream Social		

*Courses worth 3 PADEP Contact Hours, unless otherwise noted.

Thursday Morning Classes

8:00 am to 11:30 am

**Courses worth 3 PADEP Contact Hours, unless otherwise noted.*

- 5-01 Coming Soon - New Board and New Manager Track!**: This new track is currently under development. Are you a new board member or manager and need an overview of the water/wastewater industry? Plan to come hear from our industry experts. More details coming! *Trainer: Industry Specialist Earn 1 DW & WW CH*
- 5-02 Course Development/Approval in Progress**: This course is currently undergoing the development and PADEP review and approval process. Check back for title, description and details after Contact Hour approval! *Trainer: Industry Specialist Earn TBA CH*
- 5-03 Medical Emergency Response and Care**: See class #4-02, Wednesday afternoon, for description. *Trainer: Bob Stakem, M.Ed. - Industry Specialist Earn 3 DW & WW CH*
- 5-04 Basic Math Refresher**: This course provides an overview of the basic mathematical principles required to operate a water treatment plant or a wastewater treatment plant or review for an operator certification exam. *Trainer: Brian Sekula, P.E. - Industry Specialist Earn 3 DW & WW CH*
- 5-05 Lubrication 101- Application of Lubrication Fundamentals**: This course covers the fundamentals of lubrication and application towards problem solving in the DW and WW industry. Actual applications and problems will be discussed with the class, with an emphasis on machinery reliability and uptime. *Trainer: Tom Martin - Lubriplate Lubricants Company Earn 3 DW & WW CH This course is also offered on Thursday afternoon, Class #6-16*
- 5-07 Line Locating Techniques and Tips**: This course covers proper line locating techniques through classroom and equipment demo. Line location prevents property damage to utility lines, thus reducing cost and down time. *Trainer: Jim Verga, Jim Flint - Eastcom Associates Earn 3 DW & WW CH*
- 5-08 Emergency and Bypass Pumping - Sizing and Specifications**: This course covers many of the important topics when performing emergency and bypass pumping. The course will cover general safety aspects of diesel and electric driven pumps. Includes self priming diesel pump outdoor demonstration. *Trainer: Jared Carothers, EIT - Xylem Dewatering Solutions Earn 3 DW & WW CH*
- 5-09 Course Development/Approval in Progress**: This course is currently undergoing the development and PADEP review and approval process. Check back for title, description and details after Contact Hour approval! *Trainer: Industry Specialist Earn TBA CH*
- 5-10 Responsibilities of Clean Water Professionals**: This workshop introduces the WW Operator Code of Ethics; identifies elements of asset management, cybersecurity & emergency planning and provides an overview of the laws, rules and regulations that impact a certified WW operator in PA. *This class ends at Noon. Trainer: Erick Ammon, Marc Neville, Kevin Buss, Brandon Bettinger - PADEP Earn 3.5 WW CH*

- 5-11 Reed Bed Systems for Biosolid Treatment**: Course covers the basics of reed bed technology for the treatment of biosolids in drying beds. Include construction, operation and maintenance of reed beds. *Trainer: Scott Davis, Harlan Davis - Constructed Wetlands Group Earn 3 WW CH*
- 5-12 Course Development/Approval in Progress**: This course is currently undergoing the development and PADEP review and approval process. Check back for title, description and details after Contact Hour approval! *Trainer: Industry Specialist Earn TBA CH*
- 5-13 Fire Hydrant Operation and Maintenance**: The course covers the evolution of fire hydrant design, explaining the benefits of today's designs. Focus on the proper operation, maintenance, and repair of fire hydrants. *Trainer: Ryan Caron, Tim Storch - Kennedy Valve and M&H Earn 3.5 DW CH*
- 5-14 Science of Water Main Breaks**: This course will focus on the steps to repairing and tracing the causes of water main breaks. Mains are under threat from age, soils, corrosion, and other factors. Systems need to be prepared to handle these breaks before they happen. *Trainer: J. Scott Shipe - Scott Infrastructure Science Earn 3 DW CH*
- 5-15 Course Development/Approval in Progress**: This course is currently undergoing the development and PADEP review and approval process. Check back for title, description and details after Contact Hour approval! *Trainer: Industry Specialist Earn TBA CH*
- 5-17 DW Exam Review Part 3 of 4: Distribution Exam**: Review for those taking the drinking water certification exams in 2025. During this session review will focus on the Distribution exam. *Trainer: Wendy Malehorn - PRWA Earn 1 DW CH*
- 5-18 WW Exam Review Part 3 of 4 - General and Collection**: Review for those taking the wastewater certification exams in 2025. This session will focus on the General and Collection exams. *Trainer: Tom Goehring - PRWA Earn 1 WW CH*

Thursday Afternoon 2 Hour Classes

1:30 pm to 3:45 pm

**Courses worth 2 PADEP Contact Hours, unless otherwise noted.*

- 6-01 Course Development/Approval in Progress**: This course is currently undergoing the development and PADEP review and approval process. Check back for title, description and details after Contact Hour approval! *Trainer: Industry Specialist Earn TBA CH*
- 6-03 Why We Chlorinate - the Basics**: The course covers the history and importance of chlorination, case studies on waterborne disease outbreaks, basic chlorination theory, chemistry and math, typical chlorination equipment layout, operation and maintenance, safe handling and storage, record keeping and troubleshooting. Introductory chlorination course for water and wastewater. *Trainer: Nathan Jones, P.E. - Larson Design Group Earn 2 DW & WW CH*

- 6-04 PVC Pipe and Fittings:** This course covers historic and current, more versatile PVC pipe products, including which products to choose and knowing how to install them to ensure a cost-effective, long-lasting result. *Trainer: Richard St-Aubin, P.E. - IPEX USA* Earn 2 DW & WW CH
- 6-05 Active Shooter/Workplace Violence:** The course educates the proper response to active shooters, active threats, illegal intruders, and workplace violence incidents in your facility and provides you with the tactics necessary to protect yourself and co-workers. *Trainer: James Reif; James Knapp - J Reif Consulting* Earn 2 DW & WW CH
- 6-06 PFAS Management: What to do BEFORE you do it:** This course covers current technology to address the concerns of PFAS/PFOA and similar "forever" chemicals. Topics range from removal during treatment to concerns over proper disposal of contaminated media and solids. *Trainer: Phil Farina, Mike Rizzo - Clear Creek Systems, Inc.* Earn 2 DW & WW CH
- 6-07 Storage Tanks - Pros and Cons:** This course covers best practices and guidelines for tank selection with regards to tank performance and cost efficiency in water storage applications. Tank construction process, standard operational and maintenance procedures are covered. *Trainer: Ralph Wawrzyniakowski - Mid-Atlantic Storage Systems, Inc* Earn 2 DW & WW CH
- 6-08 Course Development/Approval in Progress:** This course is currently undergoing the development and PADEP review and approval process. Check back for title, description and details after Contact Hour approval! *Trainer: Industry Specialist* Earn TBA CH
- 6-09 Course Development/Approval in Progress:** This course is currently undergoing the development and PADEP review and approval process. Check back for title, description and details after Contact Hour approval! *Trainer: Industry Specialist* Earn TBA CH
- 6-10 Introduction to Smart Meters and Meter Reading Systems:** This course provides technical information, and review when and where to use ultrasonic meters and reading systems. The advantages, disadvantages, and maintenance needs are discussed. *Trainer: Sharon DelSignore - EAP Industries, Inc.* Earn 2 DW CH
- 6-11 Valve Insertion and Line Stopping:** This course covers line tapping, line stopping, and valve insertion techniques to provide a safer and more productive method of maintaining and repairing distribution systems without complete system shutdown. *Trainer: Bill Roome - Hydra-Stop* Earn 2 DW CH
- 6-12 Purpose and Benefits of Tracer Studies in PWS:** This course reviews the means/methods to evaluate chlorine contact time to help prepare water suppliers with the "balancing act" of maintaining adequate inactivation while avoiding over disinfection leading to byproduct formation. *Trainer: Travis Long, CEP - JHA Companies* Earn 2 DW CH

Thursday Afternoon 3 Hour Classes

1:30 pm to 5:00 pm

*Courses worth 3 PADEP Contact Hours, unless otherwise noted.

- 6-13 Leadership Skills for Industry Professionals:** See class #2-08, Tuesday afternoon, for description. *Trainer: Darryl Jenkins - Chester Water Authority* Earn 3 DW & WW CH
- 6-15 Workplace Safety: Personal Protection Equipment (PPE) and Injury Prevention:** This course covers the basics of personal protection equipment (PPE), it's selection and proper use and also safe work practices for injury prevention with a specific focus on ergonomics. *Trainer: Joe Zinobile, CSP - PA L&I* Earn 3 DW & WW CH
- 6-16 Lubrication 101- Application of Lubrication Fundamentals:** See class #5-05, Thursday morning, for description. *Trainer: Tom Martin - Lubriplate Lubricants Company* Earn 3 DW & WW CH
- 6-17 DW Exam Review Part 4 of 4: Practice Questions:** Review for those taking the drinking water certification exams in 2025. During this session, test taking tips will be reviewed in addition to practicing multiple choice questions. *Trainer: Wendy Malehorn - PRWA* Earn 1 DW CH
- 6-18 WW Exam Review Part 4 of 4 - General and Collection:** Review for those taking the Wastewater Exams in 2025. This session will focus on the General and Collection Exams (note this is a continuation of the Thursday morning session) *Trainer: Tom Goehring - PRWA* Earn 1 WW CH

Schedule is subject to change.
Check www.prwa.com/conference for updates.

Thursday Afternoon Highlights:

Thursday
Ice Cream Social
3:45 PM

Sponsored by: Century Engineering



To wrap up the conference join us for an ice cream social. It will be a great time to wind down and enjoy some camaraderie before hitting the road!

Breaks, Breakfast & Lunch

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More classes to be added once confirmed!
Check www.prwa.com/conference for updates.

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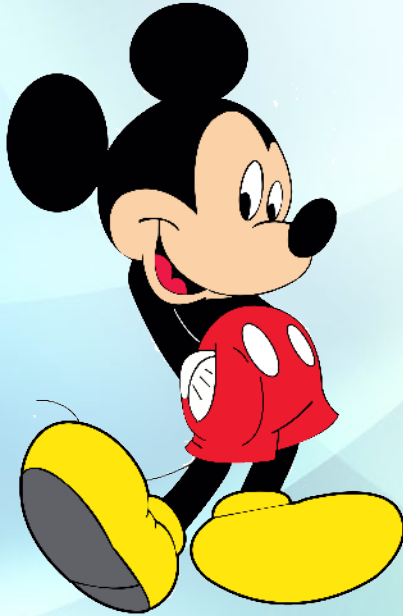
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WEDNESDAY 5:00 PM - 8:00 PM

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2025 Pennsylvania Rural Water Association Annual Conference

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