

PFAS Specialty Conference



Co-sponsored by Pennsylvania's leading
organizations representing the state's
drinking water and wastewater sectors

November 10, 2022
Penn Harris Hotel & Conference Center
Camp Hill, PA

YOU CAN PARTICIPATE AS AN.....

✓ **attendee**

✓ **exhibitor**

✓ **sponsor**

To register, go to: www.pwea.org

PFAS Specialty Conference

THURSDAY, NOVEMBER 10

8:15-9:00am: Registration and Exhibitor Visitation

9:00-9:15am: Welcome and Opening Remarks

9:15-9:45am: Legal and Regulatory PFAS-Related Challenges for the Water and Wastewater Sectors

Steven A. Hann, Esquire, Hamburg, Rubin, Mullin, Maxwell & Lupin, PC

This presentation will provide an overview of EPA's PFAS Strategic Roadmap, Pennsylvania's proposed regulatory program for PFAS, and recent PFAS-related initiatives and the resulting challenges facing the water and wastewater sectors. Specific topics include MCL requirements, monitoring issues, cost of compliance, potential funding opportunities, NPDES permitting, EPA Health Advisories, and biosolids.

9:45-10:15am: Analysis of Granular Activated Carbon Removal Efficiency of PFAS Substances in Groundwater

Andrew Crew and Lori Kappen, both with Gannett Fleming

This presentation will review granular activated carbon (GAC) removal efficiency for per- and polyfluoroalkyl substances (PFASs) at full scale contaminated groundwater sites. The data analyzed the behavior of PFAS with GAC treatment and characteristics that could be contributing to GAC's effectiveness at removing PFAS from drinking water.

10:15-10:45am: Break with Exhibitors

10:45-11:15am: Sowing the Seeds for Success – Using Pilot Testing to Optimize Plant Design and Operations for PFAS Monitoring and Removal

Ewoud Hulstein, Pennsylvania American Water; and Derek Harzinski, Mott MacDonald

Pennsylvania American Water Company owns and operates a Water Treatment Plant (WTP), located in north-east Pennsylvania that has PFAS present at all four of its groundwater wells. This presentation will discuss the use of pilot testing to optimize plant design and operations for PFAS monitoring and removal at the WTP.

11:15-11:45am: Assessing the Potential Impacts of Biosolids Applications on the Presence of PFAS Compounds in Nearby Groundwater Wells

Heather E. Preisendanz, Penn State University

Across Pennsylvania, more than 1 million households rely on private wells for potable water. This study recruited ~70 participants based on proximity to sites with active permits for biosolids application. Samples revealed that 72% of households included in the citizen science study contained PFAS levels above the 2022 EPA health advisories.

11:45am-12:15pm: Using an Existing Application of Powdered Activated Carbon to Remove PFAS

Adam Eyring and Koshy Varghese, both with Philadelphia Water Department

The Philadelphia Water Department (PWD) uses PAC (powdered activated carbon) for T&O and TOC removal. PWD investigated the use of their PAC stock for PFAS removal. Results from jar testing indicated that application of PAC can serve as a barrier against PFAS in source water.

12:15-1:30pm: Lunch with Exhibitors

1:30-2:00pm: PFAS Update and Removal of PFOA by Granular Activated Carbon Treatment in Southeastern Ohio Rural Water Systems: A 15 Year Case Study

Linda Aller, CPG, Bennett & Williams Environmental Consultants, Inc.

Granular activated carbon has been used to remove PFOA from rural water systems in southeastern Ohio since 2007. This presentation reviews the concentrations of influent PFOA over time, the effectiveness and replacement of the carbon, and the long-term implications for treatment cessation where high PFAS raw water concentrations exist.

2:00-2:30pm: Making PFAS Treatment a Good Neighbor

J. Margaret Gray, Mott MacDonald

Aqua Pennsylvania's 0.7 MGD North Hills Well Station, located in a residential neighborhood, has significant site constraints that make PFAS treatment implementation challenging. This case study includes an overview of the project, treatment technology selection drivers, ion exchange pilot testing, facility design, and construction status.

PFAS chemicals have gained national attention as harmful chemicals that persist in the environment and are challenging to treat. In the next decade, PFAS regulations are expected to emerge which will demand significant attention and resources from municipal and environmental professionals across Pennsylvania.

The Pennsylvania Water Environment Association (PWEA), the Pennsylvania Section of the American Water Works Association (PA-AWWA), and the Pennsylvania Municipal Authorities Association (PMAA) recognize the important role of cooperation to address the PFAS challenge. The PWEA/PA-AWWA/PMAA PFAS Specialty Conference will include presentations to understand the growing concerns of PFAS for the industry, emerging regulatory environment, and opportunities to manage PFAS risks to address public health and environmental concerns.

Looking forward to seeing you in Camp Hill in November!

All sessions and activities will be in the Grand Ballroom.

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2:30-3:00pm Innovative Technologies to Incorporate PFAS Removal **Christopher Curran, PE, AECOM**

PFAS is a growing concern at surface water facilities. This presentation will focus on the effectiveness of various solutions. A case study for disinfection by-product reduction and PFAS will be reviewed. Another topic will be optimal treatment where competing organics are present. Exciting new PFAS destruction technologies will also be reviewed.

3:00-3:30pm: Break with Exhibitors

3:30-4:00pm: Eternally Simple Removal Method for Forever Chemicals

Timothy Hagey and Daulton George, both with Warminster Municipal Authority

Effective and cost-effective removal of PFAS is a simple process. Learn from our experience with successful treatment options, DEP approval, tanks, media, buildings, equipment. Cost with six years of operations will be discussed – and for added flavor, arsenic and failures will be discussed too.

4:00-4:30pm: Laboratory Verification of PFAS Destruction Efficiencies Achievable with High Temperature Thermal Oxidation of Wastewater Sludge

Jon Orr, Veolia Water Technologies

A recently concluded research study at the University of Dayton shows promising data for PFAS destruction from sludge. The results demonstrate the efficacy of thermal oxidation to achieve near complete PFAS destruction in the outputs from the process using a setup that mimics proven and reliable technologies already in use in the waste treatment industry.

4:30pm: Conference Adjourns

Continuing Education

This conference has been PA DEP approved for 2.0 Water and Wastewater Operator contact hours for operators attending the full conference.

Up to 6.0 Professional Development Hours (PDH) are available for Professional Engineers, Geologists, Land Surveyors, and other professionals attending the full conference.

Tracking sheets will be provided to document attendance. Transcripts will be provided electronically after the conference.

Our Mission



Advancing Pennsylvania's water quality professionals through education and training, promoting sound sustainable water policies, and fostering public stewardship of our water resources.

www.pwea.org



Assisting municipal authorities in providing services that protect and enhance the environment and promote the economic vitality and general welfare of the Commonwealth of Pennsylvania and its citizens.

www.municipalauthorities.org



Providing solutions to effectively manage water, the world's most important resource.

www.paawwa.org

Registration

PFAS Specialty Conference

Thursday, November 10, 2022

Penn Harris Hotel & Conference Center – Camp Hill, PA

Guest rooms are available at the Penn Harris Hotel, 1150 Camp Hill Bypass, Camp Hill, PA 17011.

For reservations, call 717-763-7117 and mention PWEA/PMAA/PA-AWWA PFAS

Specialty Conference.

Room Rate is \$109.

Cut-off date is 10/19/2022.

Name: _____ Nickname (for badge): _____

Organization: _____

Address: _____

City: _____ State: _____ Zip: _____

PA DEP Client ID: _____ PE License #: _____

Email: _____ Phone: _____

Registration fee per person:

Members: ☐ \$135

Non-Members: ☐ \$195

Registration Deadline

The deadline to register in advance is October 28th.

HOW TO REGISTER:

Online: Through PWEA's website at www.pwea.org, click Event Registration under the Calendar tab, then click the Register link for the Conference. PWEA Members will be able to access Member Rates by using their Member Login credentials. PMAA Members and PA-AWWA Members should select the Non-Member registration option, and then enter the Member Discount Code which will be provided by PMAA and by PA-AWWA to their Members. That Member Code will unlock the Member Rates.

With this form: Mail to: **PWEA**, PO Box 61, Blossburg, PA 16912; fax to: (570) 549-2221; or email to: cindyrock@pwea.org

METHOD OF PAYMENT (due at time of registration)

☐ Check (payable to PWEA)

☐ Credit Card

Credit Card payments must be made online

After we receive this form, you will be sent a confirmation email. There will be a link at the bottom of that email which will take you to the online payment screen for credit card payments.

Cancellation Policy

Cancellations received in writing by October 28th will receive a full refund less a \$50 administrative fee. No refunds will be made after that date. To make substitutions, email cindyrock@pwea.org.

Questions? Contact Cindy Rock at cindyrock@pwea.org or at 570-549-2204.

Sponsors & Exhibitors

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Sponsor!

Choose your sponsorship(s) and receive recognition: your company contact information included in every registration packet; high visibility signage at the event featuring your company; recognition from the podium; and your company logo and link to your website on PWEA, PMAA and PA-AWWA websites through end of 2022.

Thursday: ☐ AM Break – \$250 ☐ Lunch – \$500 ☐ PM Break – \$250

Exhibit!

As an exhibitor, you will receive: 1 complimentary representative registration; 6-foot draped table for a display; your company contact information included in every registration packet; high visibility signage at the event featuring your company; recognition from the podium; and your company logo and link to your website on PWEA, PMAA and PA-AWWA websites through end of 2022.

Exhibit Fee: ☐ Members – \$325 ☐ Non-Members – \$400
includes 1 registration (additional representatives must register separately using attendee registration form)

Exhibit Hours

Thursday: 8:15 - 9:00 am 10:15 - 10:45 am 12:15 - 1:30 pm 3:00 - 3:30 pm

Company: _____

Contact: _____ Email: _____

Address: _____

City, State, Zip: _____ Phone: _____

Booth Representative Name: _____

Booth Representative Email: _____

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Pennsylvania AWWA
American Water Works Association

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