



## 2023 VWEA Education Seminar

### WHO SHOULD ATTEND?

Wastewater treatment operations and maintenance personnel, utility directors, researchers, engineers, students, compliance regulators, and environmental consultants

### ADMISSION

Member of VWEA and/or MABA: \$160 | \$195 after April 21<sup>st</sup>  
Non-Members: \$195 | \$210 after April 21<sup>st</sup>  
Exhibitors: \$480 (with two attendees)  
Reception Only: \$35  
Reception Sponsorship: \$150

### HOTEL RESERVATIONS

#### Westin Richmond

6631 West Broad Street  
804.282.8444

\$162 Block Rate through April 19<sup>th</sup>

### QUESTIONS?

Mike Hanna  
Black & Veatch  
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### REGISTER ONLINE:

<https://www.vwea.org/event/Education2023>



## It's the End Use of the World As We Know It? (And We'll Be Fine.)

### Advancements and Challenges in Biosolids

May 10 (Reception) | May 11 (Seminar)

### SEMINAR HIGHLIGHTS

**Expertise.** National experts, facility staff, regulators and consultants will share the latest challenges, research and technology advancements in biosolids processing and management. The topics will include PFAS in biosolids, advanced treatment and effective communication for beneficial use, and optimizing biosolids process performance.

**Networking.** The Education Committee has partnered with the Central Virginia Regional Activities Committee to host a lively and business casual Networking Reception on Wednesday evening. Come enjoy heavy hors d'oeuvres and beverages while reconnecting with peers.

**Education.** Receive up to 6.0 CPEs

# 2023 VWEA Education Seminar SCHEDULE OF EVENTS

## WEDNESDAY, MAY 10

6:00-9:00 pm Registration

6:00-9:00 pm **Reception/Social Event: Exhibit Hall**  
All attendees are invited to meet with seminar speakers and exhibitors at this pre-seminar reception

## THURSDAY, MAY 11

7:45 am to 3:30 pm Registration

7:45 to 8:25 am Breakfast

7:45 am to 3:45 pm Exhibit Hall Open

### Keynote Session and General Morning Session

8:25 am	Welcome	Mike Hanna, VWEA Education Committee Chair Ryan Hendrix, VWEA Vice President
8:30 to 9:00 am	Invention and Innovation in Biosolids	Bill Toffey, Effluential Synergies
9:00 to 10:00 am	PFAS and Biosolids Perspective in Context	Linda Lee, Purdue University
10:00 to 10:15 am	Discussion	Mike Hanna - Moderator
10:15 to 10:45 am	<b>Morning Break - Exhibit Hall</b>	
10:45 to 11:15 am	Biosolids Regulatory Outlook	Justin Curtis, AquaLaw
11:15 to 11:45 am	State Perspective on Agricultural Reuse	Joe Guthrie, Virginia Department of Agriculture

\***CREDIT** = CPE Wastewater Operator Credits (TBD pending approval)



## Session A - PFAS is Here to Stay: Treatment and Management

1:30-2:15 pm	Two Birds, One Stone: Utilizing Biosolids Thermal Processing Technologies for PFAS Removal	Ramola Vaidya, HDR
2:15-2:45 pm	Technology Demonstration and Cost Analysis for PFAS Destruction in Biosolids	Mohammad Abu-Orf, Hazen and Sawyer
2:45-3:15 pm	What Does Pyrolysis Do to PFAS in Biosolids?	Patrick McNamara, Marquette University
3:15-3:45 pm	<b>Afternoon Break - Exhibit Hall</b>	
3:45-4:30 pm	Fate of PFAS through- Incineration at Wastewater Reclamation Facilities	Lloyd Winchell, Brown and Caldwell
4:30-5:00 pm	PFAS Occurrence and Release from Finished Biosolids	Peter Loomis, CDM Smith
5:00 pm	<b>Thank you and adjourn!</b>	

## Session B - Maximizing Beneficial Use Through Advanced Treatment and Effective Communication

1:30-2:15 pm	Dry Another Day - LW BRWRF Planning Efforts to Expand Several Treatment Processes in Anticipation of Future Growth and Regulation	Kendra Sveum, Loudoun Water
2:15-2:45 pm	The Value of Stakeholder Engagement in Arlington's Re-Gen Project	Mary Strawn, Arlington County Samantha Villegas, Raftelis
2:45-3:15 pm	Measuring and Reducing Climate Impact with the Biosolids Emissions Assessment Model (BEAM)	Bill Brower, Brown and Caldwell
3:15-3:45 pm	<b>Afternoon Break - Exhibit Hall</b>	
3:45-4:30 pm	Enhancing Anaerobic Digestion Performance with the Microbial Hydrolysis Process	Dave Parry, Jacobs
4:30-5:00 pm	Can a Secondary Thermal Hydrolysis Enhance the Methane Recovery from the Recalcitrant Fraction of Municipal Sludge?	Drew Wang, Virginia Tech
5:00 pm	<b>Thank you and adjourn!</b>	

## Session C - Operations Takes the Cake: Optimizing the Performance of Your Biosolids Facilities

1:30-2:15 pm	Dewatering Centrifuge Automatic Polymer Dose Optimization	Brenda Arce and David Tolson, UOSA
2:15-2:45 pm	Dewatering Sludge and Biosolids Pumping Design Considerations	Zwelani Ngwenya, Jacobs
2:45-3:15 pm	Planning, Preparation and Practice Minimizes Downtime - Lessons Learned from Three Years of THP Shutdowns	Stephanie Spalding, HDR
3:15-3:45 pm	<b>Afternoon Break - Exhibit Hall</b>	
3:45-4:30 pm	Successful Start-up and Dewatering Optimization on Thermally-Hydrolyzed Digested Biosolids at HRSD	Jeff Nicholson, HRSD
4:30-5:00 pm	Solids Treatment Improvements and Optimization of Phosphorus Recovery at HRSD	Angie Weatherhead, HRSD Sydney Goy, Hazen and Sawyer
5:00 pm	<b>Thank you and adjourn!</b>	

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