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Welcome to the 2024 Tri-Association Conference

Dear Water/Wastewater Colleagues and Friends,

It is my pleasure to welcome all of you to the 2024 Tri -Association Conference in Ocean City, MD. On behalf of the CSAWWA, CWEA, and WWOA organizations, and especially the hard-working Tri-Con Planning Committee, we are excited to have you here. As a long-time board member, it has always amazed me at the amount of work it takes to put together a conference of this magnitude. This year, as a first-time conference chair, I got to see firsthand some of committee work that I had not previously seen. I would like to put out a huge thank you to the many (mostly volunteers) who have made this premier event possible and to their work colleagues and families who helped make space and time for their participation.

I am so grateful to the Tri-Con Planning Committee, the sponsors, the exhibitors, and the partners who have made this conference possible. And lastly, I want to thank all our attendees as you truly are the ones who make Tri-Con special and memorable! I hope you are as excited as we are to be part of this amazing event. I encourage you to try something new at the conference, whether it is participating in the silent auction, cheering on operators at one of the many competitions, stopping by to see the beautiful biosolids, or getting a new headshot. There are plenty of events that you probably have never been able to witness. Please make the most of the Tri-Association Conference Experience by trying something new and having fun. I look forward to seeing you at the conference and enjoying the knowledge, networking, and laughter that are the conference's trademarks.

Gratefully yours, Erica Whorley – 2024 Chair, Tri-Con Plannina Committee

General Information for Attendees

The Chesapeake Water Environment Association (CWEA), the Chesapeake Section American Water Works Association (CSAWWA), and the Water & Waste Operators Association of MD, DE, and DC (WWOA) are pleased to once again host a combined Annual Conference and Exhibition at the Roland E. Powell Convention Center in Ocean City, Maryland from August 27 – August 30, 2024. The Conference Committee has planned the program and schedule, as well as negotiated blocks of rooms at conference rates with several local hotels. Please check the Tri-Association Conference website (www.ChesapeakeTricon.org) frequently for updated information regarding the program, hotel accommodations, registration, golf outing, Fun Run/Walk, and other valuable information.

The Conference Registration, Information Desk, and Exhibits will be located on the first floor of the Convention Center. We are also hosting our Opening Ceremony in the Performing Arts Center, conveniently located across from our Exhibit Hall. This year's Exhibit Hall will include more than 180 standard booths. Wednesday breakfast and breaks, Wednesday lunch, and Thursday breakfast and morning break will be held in the Exhibit Hall with the exhibitors. In addition, all Operator Competitions and the Water Taste Test will be held in the Exhibit Hall on Wednesday and Thursday.

Don't forget to visit the FREE headshot booth for a memorial photo! The headshot booth is available on Wednesday in the Exhibit Hall, next to booth 219, from 10:00 a.m. until 4:00 p.m.



Our 2024 Technical Program will include more than 120 presentations in five concurrent technical sessions including two one-hour engineering ethics courses. In addition to the technical presentations, Pre-Conference Workshops on Water Infrastructure Financing, Cybersecurity, and Demystifying Artificial Intelligence and Machine Learning – Tools for the Future will be held on Tuesday, August 27, 2024, offering three to four hours of operator continuing education in MD and DE.

The entire Tri-Association Conference brochure and other useful information is available on our Tri-Con Mobile App. Make sure to download the app to your phone!



Mobile App sponsored by:



Cyber Café

The Cyber Café will be located in Room 209 and will include PCs and a printer. The Cyber Café is meant to provide a quiet workspace. Please respect others using this space.

Convention Center WiFi

WiFi will be available at no cost throughout the convention center, including the Exhibit Hall!

To access the Exhibit Hall WiFi:

SSID: CTAGuest2024 Password: HDR2024



Roland E. Powell Convention Center

The Convention Center is located at 4001 Coastal Highway, between 40th and 41st streets. There are 1,200 parking spaces at the Convention Center. Anyone with a 2024 Tri-Association Conference name badge can ride the Ocean City buses at no charge.

Registration

Registration Location: First Floor Lobby

Tuesday: 10:00 AM to 4:00 PM (Exhibitors until 6:30 PM)

Wednesday: 7:30 AM to 5:00 PM Thursday: 7:30 AM to 4:00 PM Friday: 7:30 AM to 10:30 AM

Sponsored by:







At registration, you will receive a conference lanyard containing your name tag, door prize tickets, and paid ticketed events.

Conference lanyards sponsored by:

AECOM

While you are registering, make sure you grab your souvenir Tri-Association tote bag!

Tote bags sponsored by:









For the health and safety of all conference attendees, hand sanitizers are available at the information and registration desks.

Hand sanitizer sponsored by:



Attention Certified Operators

The pre-conference workshops, technical sessions, and operator classes have been submitted for approval by the Maryland Board of Waterworks and Waste System Operators, and course codes have been assigned. Be sure to **get your** Technical Session Attendance Form stamped at the end of each session as this will be the only time to obtain stamps that verify your attendance.

The Maryland Board of Waterworks and Waste System Operators has again approved one hour of non-process credit for Exhibitor Product Briefings by visiting exhibitors in the Exhibit Hall. Operators and superintendents can meet and discuss available technologies with a minimum of 10 exhibitors. Exhibitors must complete and sign the Exhibitor Product Briefing Form, which is part of the Technical Session Attendance Form, for proper credit. Operators must obtain signatures from 10 exhibitors to receive the one non-process credit hour as no partial credit will be given.

All operators must get their completed Technical Session Attendance Form signed by an authorized committee member at the Information Desk **before you leave the conference**. You will not be able to obtain a signature after noon on Friday, August 30, 2024 - no exceptions.

Attention Professional Engineers

As part of the continuing education requirements for Professional Engineers registered in Maryland, Delaware, and Virginia, you are required to obtain proof of attendance for professional development hours. The Technical Session Attendance Form will be available at the conference to provide proof of attendance. Be sure to get your Technical Session Attendance Form stamped at the end of each session. This will be the only time to obtain stamps that verify your attendance.

Engineering Ethics in 2024: Two one-hour presentations on engineering ethics will be provided as part of the technical program to assist PEs with meeting the requirement.

All engineers pursuing continuing education credits must get their completed *Technical Session Attendance Form* signed by an authorized committee member at the Information Desk **before you leave the conference**. You will not be able to obtain a signature after noon on Friday, August 30, 2024 – no exceptions.

Awesome Door Prizes At Every Break!

All registered attendees receive door prize tickets with their badge. Each break has its own ticket, so be sure to get yours into the drawing bin! Location of each drawing is noted on the ticket.

Tri-Con Fundraising

The Tri-Association Conference has confirmed an updated philanthropic program for 2024, which is focused on supporting communities in both learning more about the water cycle and participating in the local industry and communities. This year's proceeds from fundraisers will help us deliver grants to two organizations. The first is Water For People (www.waterforpeople.org) – a global nonprofit that helps people bring clean water and sanitation solutions to their communities for generation to come.

The second is a response to the Request for Proposals from a local water/wastewater/stormwater organization to benefit. For 2024, proceeds will be granted to the Maryland Reentry Resource Center (www.mdrrc.org) in partnership with the Chesapeake Conservation Landscaping Council. They will use the grant to provide soft skills and green infrastructure and landscape training to one cohort of 10 criminal justice involved participants, creating a ready workforce of restoration maintenance professionals. Participants will receive on-the-job training and supervised projects for three months with a stipend.

Tri-Con will support these donations through the following fundraisers:

Golf Tournament 5K Fun Run/Walk Silent Auction

Your support of this Tri-Con endeavor is appreciated. We welcome your feedback: *info@chesapeaketricon.org*.

Conference Planning Committee

Bethel Abate, *DC Water* Technical Program; Opening Ceremony

Raj Arora, American Pipe Door Prizes; Registration

Clarence Beverhoudt, WSSC Water Awards; Convention Center Liaison; Silent Auction; Young Professionals

Peter Bozick, *George, Miles & Buhr* Moderator & Monitors; Technical Program

Priscilla Brown-Buchalla, Black & Veatch

Black & Veatch
Opening Ceremony (Chair)

Chein-Chi Chang, *DC Water* (*Retired*)
Opening Ceremony

Andy Cooper,

Whitman Requardt & Assoc. Door Prizes (Chair); Registration; Silent Auction

Gian Cossa, *DC Water* Arrangements/Seacrets (Chair); Door Prizes; Opening Ceremony

Teresa DiGenova, Black & Veatch Women in Water Networking; Opening Ceremony

Allison Dyott, *Anne Arundel County*Signs (Co-Chair); Brochure; Opening
Ceremony

Mike Emery, DC Water (Retired) Signs (Co-Chair); Door Prizes; Exhibits; Registration; Silent Auction

Jegnaw Essatu, WSSC Water Young Professionals (Chair); CWEA Ops Challenge

Travis Gold,

Atlantic Coating Consultants
Moderator & Monitors (Co-Chair)

Pono Hanson, *Brown & Caldwell* Sponsorships (Chair)

Eric Held, Charles Morrow & Assoc. Exhibits (Chair); CSAWWA Water Operator Competitions (Co-Chair); Door Prizes; Registration

Andrew Jakubowitch,

Kleinfelder, Inc. Awards; Opening Ceremony

Bob Johns, Ferguson CSAWWA Water Operator Competitions (Co-Chair); Exhibits

Tara Jones, WSSC Water Moderator & Monitors (Co-Chair)

Islam Khallaf, *RJN Group* CWEA Ops Challenge

Kaylie Kramer, *Brown & Caldwell* Sponsorships

Conference Planning Committee

Carrie Kruger,

All 4 Him Environmental Brochure (Chair); Fun Run/Walk (Chair); Golf

Graeme Lake, *Pennoni* 2024 Tri-Con Treasurer; Arrangements/Seacrets; Moderators & Monitors; Technical Program

Rosanna LaPlante, WSSC Water Opening Ceremony

Sophia Liskovich,

Gannett Fleming
Technical Program (Chair)

Darcy Male, WSSC Water Women in Water Networking (Chair)

Kraig Moodie, *RJN Group* CWEA Ops Challenge (Chair)

Karl Ott, *Charles Co.* (*Retired*) Convention Center Liaison; Registration; Sponsorships

Charles Poskas, JMT Fun Run/Walk Kevin Quinn, METCOM

Awards (Chair); Brochure; Golf; Opening Ceremony

Anthony Rocco, *Howard Co.* CSAWWA Top Ops (Chair)

Mark Snyder, Mueller CSAWWA Water Operator Competitions

Ray Streib,

Development Facilitators, Inc. Silent Auction

Chrissie Swann, *Carollo* CSAWWA Water Taste Test (Chair)

Ron Tatariw, Tatariw, Inc. Golf (Chair)

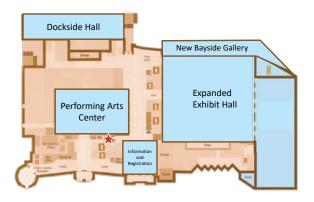
Erica Whorley, Brown & Caldwell 2024 Tri-Con Chair; Communications (Chair); Silent Auction (Chair); Technical Program

Alan Will, *JMT* Convention Center Liaison (Chair); Photography (Chair)

Thank you, committee volunteers!

Convention Center Maps

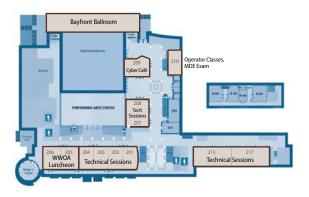
First Floor



Escalators are out of service this year.

Please note location of elevator indicated by red star.

Second Floor



Cyber Café: Room 209

Technical Sessions: Rooms 201-204, 207-208, 215, 217

Meeting Rooms: Dockside Hall (1st Floor), Bayfront Ballroom (2nd Floor)

Operator Classes, MDE Exam: Room 210

Tuesday, August 27

Exhibitor Move-In

Exhibit Hall

8:00 AM - 6:30 PM

Registration

First Floor

10:00 AM - 4:00 PM

Golf Outing

Ocean City Golf Club, Berlin, MD

Sign In: 11:00 AM

Shotgun Start: 12:00 PM

Pre-Conference Workshop

Asset Management – Rooms 201–202

1:00 PM - 5:00 PM

Pre-Conference Workshop

Cybersecurity - Rooms 203-204

1:00 PM - 5:00 PM

Pre-Conference Workshop

Loan/Grant Funding by EPA

Rooms 207-208 1:00 PM - 5:00 PM

Operations Challenge -

Equipment Set-up & Team Check-in

Exhibit Hall

12:00 PM - 5:30 PM

Operations Challenge -**Process Control Event**

Exhibit Hall

5:30 PM - 6:30 PM

Cyber Café Open Daily

Room 209

Wed. - Thurs. 8:00 AM - 6:00 PM

Fri - 8:00 AM - 10:30 AM



Exhibit Hall 7:30 AM - 5:00 PM

Continental Breakfast

7:30 AM - 9:30 AM

Silent Auction

Exhibit Hall/Online

Basic Motor and Pump Maintenance

8:30 AM - 10:00 AM

Operations Challenge

Exhibit Hall

9:00 AM - 4:00 PM - Awards to Follow

Residuals & Biosolids Beauty Contest

Exhibit Hall

9:00 AM - 11:00 AM

Exhibit Hall

Break/Visit Exhibitors/DOOR PRIZES

Exhibit Hall

10:00 AM - 11:00 AM

Wednesday, August 28

5K Fun-Run/Walk

Boardwalk at the Grand Hotel - 21st Street 7:00 AM

Registration Check-In Open

First Floor

7:30 AM - 5:00 PM

Past Presidents/Chairs & Board Breakfast

Bayside Gallery (Invitation Only)

7:30 AM - 8:30 AM

Exhibits Open

Exhibit Hall

8:00 AM Open

Operator Non-Process Class

Room 210 - 8:00 AM - 12:00 PM

Technical Sessions

Rooms 201-204, 207-208, 215, and 217

Operations Challenge - Pre-Comp Mtg.

Exhibit Hall

8:30 AM - 9:00 AM

Headshot Booth

10:00 AM - 4:00 PM

Opening Ceremony/Keynote Address

Performing Arts Center - DOOR PRIZE 11:00 - 12:00 PM

Lunch With Exhibitors

Exhibit Hall

12:00 PM - 1:00 PM

Technical Sessions

Rooms 201-204, 207-208, 215, and 217 1:00 PM - 2:30 PM

Operator Process Class - Coagulation, Flocculation, Sedimentation & Filtration

Room 210 - 1:30 PM - 5:00 PM

Break/Visit Exhibitors/DOOR PRIZES

Exhibit Hall

2:30 PM - 3:30 PM

Meter Challenge

Exhibit Hall 2:30 PM - 3:30 PM

Hydrant Hysteria

Exhibit Hall

2:30 PM - 3:30 PM

Technical Sessions

Rooms 201-204, 207-208, 215, and 217 3:30 PM - 5:00 PM

Shooters Happy Hour

Exhibit Hall

4:00 PM - 5:30 PM

Pipe Cutting Shootout

Exhibit Hall

4:00 PM - 5:00 PM - Awards to Follow

Operations Challenge -Breakdown, Pipe Tapping Move-in

5:00 PM - 6:30 PM

Women in Water Networking Event

Bayfront Ballroom 5:00 PM - 6:30 PM

Fun Night!

Seacrets® (ticketed event) 7:00 PM - 11:00 PM

Conference At-A-Glance

Thursday, August 29

Registration Check-In Open

First Floor 7:30 AM – 4:00 PM

Exhibits Open

Exhibit Hall 7:30 AM – 12:30 PM

Continental Breakfast

Exhibit Hall 7:30 AM – 9:30 AM

Silent Auction

Exhibit Hall/Online 7:30 AM – 10:30 AM

Technical Sessions

Rooms 201–204, 207–208, 215, and 217 8:30 AM – 10:00 AM

Operator Process Class

Advanced Wastewater Class
Room 210 – 8:30 AM – 12:30 PM

Pipe Tapping - Men & Women's Teams!

Exhibit Hall

9:30 AM - 11:30 AM

Break/Visit Exhibitors/DOOR PRIZES

Exhibit Hall 10:00 AM – 11:00 AM

Water Taste Test

Exhibit Hall

10:00 AM - 11:00 AM

Technical Sessions

Rooms 201–204, 207–208, 215, and 217 11:00 AM – 12:30 PM

Exhibitor Move Out

Exhibit Hall 12:30 PM – 4:00 PM Thank you exhibitors!

WWOA Business Luncheon

Rooms 205–206 – (ticketed event) 12:30 PM – 1:45 PM

CWEA Business Luncheon

Bayfront Ballroom– 2nd Floor (ticketed event) 12:30 PM – 1:45 PM

CSAWWA Business Luncheon

Dockside Hall – 1st Floor (ticketed event) 12:30 PM – 1:45 PM

Technical Sessions

Rooms 201–204, 207–208, 215, and 217 2:00 PM = 3:30 PM

Operator Process Class

Process Math for Operators Rooms 210 – 2:00 PM – 5:30 PM

Top Ops

Dockside Hall - 1st Floor 2:30 PM – 4:30 PM

Break/DOOR PRIZES

2nd Floor Lobby 3:30 PM - 4:00 PM

Technical Sessions

Rooms 201–204, 207–208, 215, and 217 4:00 PM – 5:30 PM

Awards Program

Bayfront Ballroom – 2nd Floor – **DOOR PRIZE** 5:30 PM – 6:30 PM

YP Happy Hour

Alley Oops Midtown Bowling – 56th Street 6:30 PM – 8:30 PM (ticketed event)

Friday, August 30

Registration Check-In Open

First Floor

7:30 AM - 10:30 AM

Sunrise Yoga on the Beach - NEW!

Beach in front of Grand Hotel – 21st Street 6:15 AM – 7:30 AM

Continental Breakfast

Second Floor 8:00 AM – 9:30 AM

Technical Sessions

Rooms 201–204, 207–208, 215, and 217 9:00 AM – 10:00 AM

MDE Operator Certification Exam

Room 210 9:00 AM – 12:00 PM

Technical Sessions

Rooms 201–204, 207–208, 215, and 217 10·15 AM = 11·45 AM

Last Chance for Technical Session Attendance Form Signatures!!

Information Desk 11:45 AM – 12:00 PM

Adjourn/MONSTER DOOR PRIZES

Information Desk 12:00 PM

^{*} Be sure to get your Technical Attendance Form signed before you leave!

Wednesday, August 28, 2024

	Room 201-202	Room 203-204	Room 207-208	Room 215	Room 217
	Asset Management	Wastewater Treatment	Funding	Utility Management/Ethics	Collection Systems
8:30 AM	Exploring Wet-weather Solutions Amidst Strict NPDES Discharge Limits	Knock Out, Drag Out Fight: Centrifuge vs. Belt Filter Press – Title for Best Dewatering Technology to Squeeze Poop at Dunn Water Reclamation Facility!	AlexRenew's Interest in Loans to Deliver Alexandria's Largest Infrastructure Project	SAFETY FIRST: Fire Protection Assessments for WWTPs	From Catastrophe Crisis to Resilient Renewal: Leveraging Innovation to Accelerate the Emergency Design and Construction of a Failed 48-inch Force Main
9:00 AM	Funding to Mitigate Disasters with "Fed Funds"	Technology Spotlight: Updates from Ecoremedy Fluid Lift Gasification Projects in PA and WA	The Growing Water Workforce: Making the Case for Increased Water Infrastructure Funding	 Ethics in Patenting for 	Outfall-ing Down!
9:30 AM	State Actions to Help Water Systems Achieve Sustainability through Asset Management Planning and Implementation	Aligning Cogeneration Sizing with the Plant and Client's Goals (Big Plant Edition)	How WIFIA Financing Benefits Communities	Professional Engineers	Streamlining Infrastructure: Relocating a Sewage Interceptor for a Major Highway Interchange
	Room 201-202	Room 203-204	Room 207-208	Room 215	Room 217
	Asset Management	Wastewater Treatment	Water Storage Tanks	Utility Management	Operations/Maintenance
1:00 PM	Cracks, Shrunken Windowsills, Water intrusion – It's Time for a Condition Assessment!	Trial By Fire: Conducting a Full-scale Pilot Study with an Emergent Disinfection Technology	Managing Elevated Water Storage Tank Rehabilitation: Lessons Learned from 100+ Tank Jobs in DelMarVa	Automation and Analysis: Data-Driven Strategies Improve Utility Processes and Analyze Performance at WSSC Water	Safety Regulations Relating to Internal Pipeline Inspection
1:30 PM	Advancing Facility Management with Customized Cloud-based Tools for Condition Assessment	Operational Insights from the Patapsco WWTP: Lessons in Process Control and Rehabilitation	A Challenging Tank Upgrade for a Rapidly Growing System Constructed through the Pandemic	Collaborative Project Delivery with Drone Technology	Impacts of Streamlined Data Visualization on Program Delivery
2:00 PM	Engineering Approach to Condition-Based Maintenance for Mechanical Equipment	Improving MBR Performance Monitoring and Maintenance with Control Chart Methodology	Controlled Trench Blasting at Druid Lake – How to Keep the Drinking Reservoir In-service and Not Scare the Zoo Animals	Using Data to Target Customer Engagement & Outreach Efforts in Your Financial Assistance Programs	Sewer Data Management and O&M Plan Optimization in the City of Baltimore's Department of Public Works
	Room 201-202	Room 203-204	Room 207-208	Room 215	Room 217
	Asset Management	Wastewater Treatment	Water Distribution	Utility Management	Collection Systems
3:30 PM	Asset Management – Building Information Management (BIM) 16th & Alaska Pump Station Pilot Demonstration	A PFAS Perspective — Laboratory, Landfills, and Biosolids	The Occoquan River Crossing Was a BLAST	Complying with AWIA 2025 Deadline	HRSD WWTP Primary Clarifier Influent & Effluent Pipe Rehabilitation
4:00 PM	How to Sweat the Small Stuff: A Risk Approach for Rehabilitating Small Diameter Sewers	Managing Wet Weather Challenges at the Pleasant Hills Authority WWTP	Pipe Bursting Proof of Use for Water Main Replacement: Insights from WSSC Water Pilot Project	The Importance of Cyber Resiliency in the Modern Utility: St. Louis MSD's Journey	How to Effectively Perform a Pipeline Health Check for Sewer Force Mains
4:30 PM	Manhole Inflow – The Uncomfortable Reality of How Much of Our Peak Wet Weather Flow is Related to Sheet Runoff	Not your Great, Great, Grandfather's Secondary Clarifier – New Clarifier Inlet Optimization Technology	CIPP Lining of Water Mains – A Cost-Effective Solution	Howard County Bureau of Utilities Water Isolation Tracer Tool	Post-COVID-19 Modern Trash Loading Proves Sewage Pump Clog Resistance Cannot Be Predicted by Impeller Throughlet Size

Thursday, August 29, 2024 • Morning

	Room 201-202	Room 203-204	Room 207-208	Room 215	Room 217
	Asset Management	Wastewater Treatment	Water Treatment	Utility Management	Collection Systems
8:30 AM	Refining PCCP Inspections by Understanding Electromagnetic Field Interactions	Challenging the Retention Time of Anaerobic Digestion Using Thermal Hydrolysis Pretreatment	Rejuvenating the Montebello Water Filtration Plant for the Next 100 Years of Service	Lessons Learned from Operational Excellence and Collaborative Culture at the Patapsco Wastewater Treatment Plant	Kicking It Up a Notch: Year 2 in Modernizing CSO Management
9:00 AM	Water Main Predictions: How Good Old Statistics Still Help in the Age of Al	Challenges of Low BOD/TSS Ratios in Wastewater Treatment: A Case Study Analysis	Closing the Loop on PFAS: An Overview of PFAS Destruction Technologies to Expand PFAS Mitigation Efforts in Water & Wastewater	Tackle Brain Drain: Howard County's Approach to Capture Institutional Knowledge	Best Practices Learned from 20 Years of Large Diameter PCCP Force Main Monitoring and Management
9:30 AM	How to Predict the Uncertain: DC Water's Use of Monte Carlo Analysis to Quantify Lead Service Lines in DC	Anaerobic Digestion with H25 & Nutrient Control – What If Your Digesters Were the Sidestream?	Programmatic Rapid Deployment of Small-Scale PFAS Wellhead Treatment	Work at Baltimore City DPW – Why Would You Do That?	Leveraging Real-Time Performance Data for Daily Operations &Long-Term Planning of Wastewater Collection Systems
	Room 201-202	Room 203-204	Room 207-208	Room 215	Room 217
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	Asset Management	Wastewater Treatment	Water Treatment	Utility Management	Collection Systems
11:00 AM	Asset Management Indirect Corrosion Inspection for Water Pipelines	Wastewater Treatment How Low Can We Go? Successful Low DO Operations for Biological Nutrient Removal at Pomona WRF	Water Treatment Evaluating the Presence of PFAS and Gen-X Chemicals in a Raw Water Source and Developing a Treatment Strategy for a 12 MGD Water Treatment Plant	Utility Management Delivering on a Critical Linear Infrastructure Project for Garrett County: Meeting Constructability Challenges while Providing Resiliency	Collection Systems Collaborative Delivery and Innovation Pass the Test of an At-Risk Wastewater Interceptor Rehabilitation Challenge
11:30 AM 11:00 AM	Indirect Corrosion Inspection	How Low Can We Go? Successful Low DO Operations for Biological Nutrient Removal	Evaluating the Presence of PFAS and Gen-X Chemicals in a Raw Water Source and Developing a Treatment Strategy for a 12 MGD Water	Delivering on a Critical Linear Infrastructure Project for Garrett County: Meeting Constructability Challenges	Collaborative Delivery and Innovation Pass the Test of an At-Risk Wastewater Interceptor

Thursday, August 29, 2024 • Afternoon

	Room 201-202	Room 203-204	Room 207-208	Room 215	Room 217
	Asset Management	Wastewater Treatment	Water Treatment	Utility Management	Operations/Maintenance
2:00 PM	Charm City Criticality: Optimizing Valve Management in Baltimore	Out with the Old and In with the New	Ending the Use of Chlorine Gas at Major City of Baltimore Drinking Water Sites – How to Improve Safety and Reduce Chemical Demands	Holistic Design Processes and Post Construction Monitoring of In-Stream Asset Protection	Spinning Ain't Winning – Properly Setting Minimum Speeds on VFD Driven Pumps
2:30 PM	Navigating the Transition to ESRI's Utility Network	Optimizing DC Water's Aerated Grit Chambers with Innovative TruGrit Approach	Lead Sampling Plan Development for Schools and Childcare Facilities Under the LCRR	Collaboration in Mitigating SSO Risk in Buried Stream Crossing	Cathodic Protection Installation and Testing
3:00 PM	Smart Geospatial Analytics: Revolutionizing Corrosion Management in Water and Wastewater Infrastructure	An Innovative Lime Slurry System Provides Low Cost, Transitional & Contingency Solutions for Biosolids Stabilization	Leveraging BAC to Remove HAA in Drinking Water – Innovative DBP Treatment Pilot Testing to Supplement Charles County's Water Supply	Cherry Hill Drainage Improvement to Mitigate Flooding in Baltimore's Cherry Hill Neighborhood	Phased Construction for Expedited Gravity Thickener Rehabilitation
	Room 201-202	Room 203-204	Room 207-208	Room 215	Room 217
	Asset Management	Wastewater Treatment	Water Treatment	Utility Management	Stormwater
4:00 PM	Streamlining Sustainability: A Tailored Asset Management Approach for Small Community Water Systems	Bay-Driven Regulations: Innovative Nutrient Mitigation Strategies for Wilmington WWTP	Novel UVLED Reactor for Indirect Potable Reuse	Lead Free DC – Public/Private Partnership, Lead Pipe Replacement Program (LPRAP)	Predicting Interior Flooding: Building an Integrated Flood Model for Washington, DC
4:30 PM 4:00 PM	A Tailored Asset Management Approach for Small	Ínnovative Nutrient Mitigation Strategies for		Public/Private Partnership, Lead Pipe Replacement	Building an Integrated Flood

Friday, August 30, 2024

	Room 201-202	Room 203-204	Room 207-208	Room 215	Room 217
	Utility Management	Wastewater Treatment	Ethics	Utility Management	Stormwater
9:00 AM	How to Avoid the #1 Mistake in Public Communications Before Your Service Line Inventory Rollout	Growing Up Together Lessons Learned During Startup: Commissioning Sidestream Deammonification Concurrent with THP Digestion	Ethics Regulations and	Assessment of First Floor Elevations Using Unmanned Aerial Vehicles	Frederick County's Approach to Water Resources Element Updates
9:30 AM	Equitable Infrastructure Investments for Equitable Outcome – DC Water's Experience	Steam Treatment and Thermal Hydrolysis: A Synergistic Approach in Solids Management	Cases in Engineering	Building Climate Resiliency into Flood-Prone Facilities	Leveraging Private Ownership and Real-Time Control for Cost- Effective Stormwater Treatment in Howard County, MD
	Room 201-202	Room 203-204	Room 207-208	Room 215	Room 217
	Utility Management	Systems Operations	Wastewater Treatment	Utility Management	Stormwater
10:15 AM	Innovative Project Delivery: CMAR Design-Build for Success in Water Projects	An Instrument Calibration Program Is Key to Quality Water Treatment	PFAS: The Latest on an Ever Evolving Regulatory Landscape – National and State Update	Preparing Your Water Utility for a Lower Carbon Future	A 21st Century Tool to Address 21st Century Flooding: Baltimore's Approach to Identifying Concern Areas and Solutions
10:45 AM	Soooo How Did Your First CMAR go?	Staring into the Abyss: Using Remote Operated Submarines to Safely Inspect Underwater Infrastructure	An Award-winning Gasification Technology Shows Capacity of destroying PFAS In Biosolids: Australian Initiative to Transform Sewage Sludge into Energy	Planning for The Future: Coastal Resilience Modeling For Public Utilities	Integrated Short- and Long-Term Approaches to Reduce Nutrient Loading at a Major Recreation Lake Amenity
11:15 AM	Why Would You Use Multi-prime Contracting When You Don't Have to?	Opening Opportunities with Cross-Connection Thinking – DC Water's Path to Enhancing their CCC Program	PFAS in Biosolids: What Pros Need to Know	Building Resilience and Adapting to Climate Change Impacts for Drinking Water &Wastewater Utilities	Stormwater Management for Flood Resiliency: A Comparison of Approaches

Tuesday, August 27, 2024 Pre-Conference Workshops

Pre-Conference Workshop: Asset Management Non-Process Credit Room 202-203 Pre-Conference Workshop: Cybersecurity Non-Process Credit Room 207-208 Pre-Conference Workshop: Funding, US EPA Non-Process Credit

Operator Classes Room 210, Second Floor

	Wednesday, August 28
	Basic Motor and Pump Maintenance (Non-process) 8:00 AM - 12:00 PM
Coa	agulation, Flocculation, Sedimentation & Filtration (Process) 1:30 PM – 4:30 PM
	Thursday, August 29
	Advanced Wastewater Class (Process) 8:30 AM – 12:30 PM
	Process Math for Operators (Process) 2:00 PM – 5:30 PM

Tuesday, August 27, 2024

EXHIBITOR MOVE-IN

8:00 AM - 6:30 PM • Exhibit Hall

REGISTRATION/CHECK-IN

10:00 AM - 4:00 PM • First Floor Lobby (Exhibitors until 6:30 PM)

GOLF OUTING BENEFITTING NON-PROFIT WATER ORGANIZATIONS

11:00 AM Check-In, 12:00 PM Shotgun Start

Format: Scramble

Ocean City Golf Club 11401 Country Club Drive, Berlin, MD

Stop off in nearby Berlin, Maryland to play on the beautiful and challenging Newport Bay course at the Ocean City Golf Club. Proceeds from the Golf Outing will benefit two well-deserving not-for-profit organizations. Prizes will be awarded at the end of the golf outing, and winners will be posted at the Conference Information Booth. Unclaimed prizes will be posted and can be claimed at the Conference Information Booth. Individual and foursome golf registration fees are \$100 and \$400, respectively, and include a box lunch, driving range, green fees plus cart, and prizes.











Tuesday, August 27, 2024

GOLF OUTING (CONTINUED)

Inclement Weather Cancellation

Ocean City Golf Club staff will make the determination on whether the golf course is unplayable due to inclement weather. Contact OCGC directly at 410-641-1779 if threatening or severe weather is forecasted to determine if the golf outing is cancelled. Credit card refunds



will be issued to those who request one in writing directly to Ron Tatariw (rtatariw@tatariw.com) by 6:00 PM on September 6, 2024 if, and only if, the golf outing is cancelled due to inclement weather. We will consider the registration fee of those golfers who do not request a refund as a donation, thanking you in advance, to not-forprofit water organizations.

Back Again for 2024 - Hole in One Competition for \$25,000!

The golf tournament will include a Hole in One Competition. It will be \$5 to enter and each person can enter only one time. The prize for a hole in one is \$25,000. If there is more than one hole-in-one winner, the prize will be split between the winners.

Registration: Register for golf through our online system at www.chesapeaketricon.org/golf.html. Individual registration fee: \$100 Four-some golf registration fee: \$400

For additional information, contact Ron Tatariw, Tatariw, Inc., at 703-716-0770 or by email: rtatariw@tatariw.com.

Directions to golf course from Ocean City: Go west on Route 50 to third traffic light and then turn left on Route 611 (Stephen Decatur Highway). Go six miles south on Route 611 to the "Y" in the road. Bear right at the "Y" onto South Point Road. Ocean City Golf Club is one mile on the right.

Tuesday, August 27, 2024

PRE-CONFERENCE WORKSHOPS

The 2024 Tri-Association Conference Committee is pleased to offer three separate Pre-Conference Workshops this year. Topics include Demystifying Artificial Intelligence and Machine Learning, Cybersecurity, and Water Infrastructure Financing. You must register for these workshops as part of your conference registration. The workshops are subject to cancellation dependent upon the number of registrants. If cancelled, registrants will be notified, and workshop payments will be refunded in full.

\$45 early-bird registration/\$50 standard registration.

Pre-Conference Workshop:

Demystifying Artificial Intelligence and Machine Learning – **Tools for the Future**

Presented by the Asset Management Committees of CSAWWA & CWEA

1:00 PM - 5:00 PM • Rooms 201-202

Artificial Intelligence (AI) and Machine Learning (ML) are becoming more present in our day-to-day lives, from the generation of meeting minutes to predicting pipeline failure. These useful tools offer a range of benefits, providing efficiency and optimization to professionals but can be intimidating or confusing to those unfamiliar. Al and ML come with new terminology, a broad scope of applications, a rapid pace of development (with new advancements and applications emerging frequently), and potential ethical concerns surrounding bias, privacy, or job displacement. To address this, it is essential to provide clear, accessible explanations of AI and ML concepts and applications.

In this workshop, utility professionals will embark on a journey to demystify the applications of AI and ML. During the session, we aim to provide a foundational understanding of these innovative technologies and their applications in the water and wastewater industries.

No prior technical knowledge is required – just a curiosity to explore the potential of these tools.*

*Description written with the assistance of ChatGPT

Tuesday, August 27, 2024

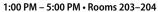
PRE-CONFERENCE WORKSHOPS (CONTINUED)

Presenters:

- Craig Daly, Chief of Water Facilities Division, City of Baltimore DPW
- Kate Zhao, Global Product Manager, Xylem
- Travis Wagner, Vice President, Digital Consultant, Trinnex
- Bryan Samuels, Chief of Utility Maintenance, City of Baltimore DPW

Pre-Conference Workshop: Cybersecurity

Presented by Kevin M. Morley





The water sector has been the subject of increased targeting by cyber threat actors for monetary gain and comprising continuity of operations. This reality requires proactive measures to mitigate vulnerabilities and develop incident response capabilities by all types of water utilities. Cyber threats do not discriminate by utility size or type. This workshop is designed to empower utility owner/operators to understand the threat, assess vulnerabilities, leverage tools to mitigate risks and prepare to respond.

Presenter:

Kevin M. Morley, PhD, Manager, Federal Relations for the American Water Works Association (AWWA)



Tuesday, August 27, 2024

PRE-CONFERENCE WORKSHOPS (CONTINUED)

Pre-Conference Workshop:

Water Infrastructure Financing

Presented by the U.S. Environmental Protection Agency

1:00 PM - 5:00 PM • Rooms 207-208

Water infrastructure funding is a top priority for communities. There are several sources of federal funding for water infrastructure, including the Clean Water and Drinking Water State Revolving Funds (SRFs) and the Water Infrastructure Finance and Innovation Act (WIFIA) program. Combined, these programs provide billions of dollars each year to thousands of communities across the country for their drinking water, wastewater, and stormwater infrastructure needs. These funding programs offer many benefits and flexibilities, including grant-like dollars, low interest loans, long loan repayment terms, customized repayment schedules, and opportunities for non-infrastructure technical assistance. These financing flexibilities help communities implement critical water infrastructure projects at a lower cost to ratepayers.

This workshop will provide an overview of the SRF and WIFIA programs, including eligibilities, priorities, and benefits. Presenters will also discuss how these programs can be combined to maximize water infrastructure funding for communities.

Presenters:

- Karen Fligger, US EPA, WIFIA Program
- · Logan Loadholtz, US EPA, CWSRF Program
- Nick Chamberlain, US EPA, DWSRF Program
- Kelly Sherwood, US EPA, DWSRF Program



Tuesday, August 27, 2024

15TH ANNUAL OPERATIONS CHALLENGE Equipment Set-Up and Team Check-In

12:00 PM - 5:30 PM • Exhibit Hall

Operation OC2! – Day 1 Process Control Event

5:30 PM – 6:30 PM • Exhibit Hall

Continues on Wednesday. (See page 25 for details.)

Do you ever wonder what transpires behind the scenes during the operation of a water resource recovery



facility? Instead of continuing to take these unsung specialists for granted, learn how the best wastewater collection and treatment personnel in the country display their skills at Operations Challenge. In the competition, teams compete to earn the highest score in five different events. Each team includes four members, and often a coach as well. Each event is designed to test the diverse skills required for the operation and maintenance of water resource recovery facilities, collection systems, and laboratories. The five events are collections systems, laboratory, process control, maintenance, and safety. Winners are determined by a weighted points system.

To register your team for this event go to: www.ChesapeakeTricon.org/Ops-Challenge.html





















Wednesday, August 28, 2024

5K FUN RUN/WALK

BENEFITTING WATER NON-PROFIT ORGANIZATIONS 7:00 AM • BOARDWALK AT THE GRAND HOTEL (21ST STREET)

The 2024 Tri-Con Fun Run/Walk will start outside of the Grand Hotel where participants will enjoy camaraderie and a beautiful view of the ocean. In 2023, over 50 runners and walkers came out to enjoy wonderful weather and an incredible sunrise! Registration includes a performance T-shirt, snacks, and refreshments.

You must pre-register to participate. \$35 early-bird registration/\$45 standard registration.



Sponsored by:















Inclement Weather Cancellation: In the event of inclement weather, Fun Run registrants will be contacted by email if the event is cancelled. Credit card refunds will be issued to those who request one in writing directly to Carrie Kruger (ckruger@all4himenv.com) by 6:00 PM on September 6, 2024 if, and only if, the Fun Run is cancelled due to inclement weather. We will consider the registration fee of those runners who do not request a refund as a donation.

Wednesday, August 28, 2024

REGISTRATION/CHECK-IN

7:30 AM - 5:00 PM • First Floor Lobby

EXHIBITS OPEN

7:30 AM - 5:00 PM • Exhibit Hall

CONTINENTAL BREAKFAST

7:30 AM - 9:30 AM • Exhibit Hall

Sponsored by:



OPERATOR CLASSES

8:00 AM -12:00 PM • Room 210

(See page 27 for more details.)

SILENT AUCTION

8:00 AM - 6:00 PM • Exhibit Hall

(See page 26 for more details.)

TECHNICAL SESSIONS

8:30 AM - 10:00 AM • Rooms 201-204, 207-208, 215, and 217









Wednesday, August 28, 2024

15TH ANNUAL OPERATIONS CHALLENGE

9:00 AM - 4:00 PM • Exhibit Hall - Award Ceremony to Follow See page 22 for details.

Pre-Competition Meeting

8:30 AM - 9:00 AM • Exhibit Hall

Operation OC2! - Day 2

The Operations Challenge continues with day two's exciting events, including:

- · Maintenance Event · Collection System Event
- Safety Event Awards Pipe Cutting Shootout

Operations Challenge will conclude with the Pipe Cutting Shootout that happens during the Shooters Happy Hour. This event is open to any registered attendee. There will be a male and a female division and prizes. Please sign up for the event on Tuesday or Wednesday before the event (see page 22 for details).

Sponsored by:





















RESIDUALS AND BIOSOLIDS BEAUTY CONTEST

9:00 AM - 11:00 AM • Exhibit Hall

Register all Residuals and Biosolids entries for the Beauty Contest at the CWEA table on the second floor **before 9 AM** on Wednesday. Entries will be displayed and judged in the Exhibit Hall after they've been registered. There will be awards handed out during the CWEA Annual Business Meeting Luncheon on Thursday, August 29 beginning at 12:30. Awards will be given for Class A Biosolids Enhanced, Class B Biosolids, Residuals, and Best in Presentation (overall). For more information contact John Maley at john.maley@hdrinc.com or Traci Storm at traci@chesapeakewea.org.

Wednesday, August 28, 2024

SILENT AUCTION BENEFITTING WATER FOR PEOPLE AND MARYLAND REENTRY RESOURCE CENTER



8:00 AM - 6:00 PM • Exhibit Hall

(Online continuously through 10:30 AM on Thursday, August 29, 2024.)

Silent Auction Is Online Again This Year!

Tri-Con's Silent Auction will once again be a hybrid event with items displayed in the Exhibit Hall, water for people but bidding will take place only on 32auctions (www.32auctions.com/Tricon2024). To participate, you will need a 32auctions account. The auction will run continuously from 8:00 AM Wednesday through Thursday at 10:30 AM. You must pay for your item directly online, and then bring your receipt to the Information Desk to pick up your items. No items will be shipped without prior arrangement.

A portion of the proceeds will benefit the Maryland Reentry Resource Center. The Maryland Reentry Resource Center (www.mdrrc.org) in partnership with the Chesapeake Conservation Landscaping Council will use the grant to provide soft skills and green infrastructure and landscape training to one cohort of 10 criminal justice involved participants, creating a ready workforce of restoration maintenance professionals. Participants will receive on-the-job training and supervised projects for three months with a stipend.

Proceeds will also benefit Water For People (www.waterforpeople.org) – a global nonprofit that helps people bring clean water and sanitation solutions to their communities for generation to come.

Items will be displayed in the Exhibit Hall, and detailed instructions for participating are posted at the Silent Auction tables, and at the Information Desk. Please contact Erica Whorley (triconsilentauctions@gmail.com or ewhorley@brwncald.com) for more information

Wednesday, August 28, 2024

OPERATOR CLASSES

This year, we are offering four half-day operator classes. See page 35 for Thursday's classes.

Early-bird registration: \$25/Standard registration: \$30. You must be registered for the conference to attend.

8:00 AM -12:00 PM • Room 210 Basic Motor and Pump Maintenance

All Operators (Non-Process)

Instructor: Bob Andrews, Hills Industrial

Students will learn:

- · How to read a motor nameplate
- Motor storage recommendations
- Basic systems considerations for motor/pump selections
- Proper basic installation requirements
- Startup and baseline information gathering
- Preventive, predictive, and reliability-based maintenance
- Relubrication of bearings
- Inspection and testing at prescribed intervals
- · Motor storage tips and recommendations

1:30 PM -5:00 PM • Room 210

Coagulation, Flocculation, Sedimentation and Filtration

All WWT/All IWW/All WT Operators (Process) Instructor: Eddie Cope, Anne Arundel County

Designed to assist water plant operators, this advanced course focuses on tracking the flow of water through the four fundamental chemical/physical processes in water treatment. Participants will examine chemical reactions, the physical event of each process, and the plant equipment involved. Instruction and practice in solving typical operational and mathematical problems associated with these treatment functions will also be covered. (This course has received TRE certification for both water and wastewater operators because some wastewater treatment plants may employ one or more of these processes). Each participant should bring a calculator to this class.

Wednesday, August 28, 2024

OPERATOR CLASSES (CONTINUED)

Sponsored by:







WEDNESDAY MORNING BREAK/VISIT EXHIBITORS – DOOR PRIZE!

10:00 AM – 11:00 AM • Exhibit Hall

Sponsored by:



OPENING CEREMONY

11:00 AM - 12:00 PM • Performing Arts Center - DOOR PRIZE!

Sponsored by:







Welcome

Erica Whorley, Tri-Association Conference Committee Chair

Keynote Speaker

George S. Hawkins, Esq.

Founder and President, Moonshot Missions (Former CEO of DC Water)



George Hawkins is a renowned expert in change management and public policy. He has spent over three decades helping public utilities and organizations overcome obstacles and achieve transformative change. As CEO of DC WASA (now DC Water) from 2009–2018, George recognized the need for change and worked

Wednesday, August 28, 2024

OPENING CEREMONY (CONTINUED)

with his team to transform the utility into one of the most innovative and respected water utilities in the country.

George's experience leading DC Water has given him valuable insights into the central obstacles to change in any public infrastructure. He has developed universal principles that can guide transformative change and help organizations overcome challenges.

In addition to his work at DC Water, George has also served as the Executive Director of the District of Columbia's Department of Energy and Environment. He has been recognized for his leadership and expertise in sustainability, environmental policy, and public service. George is passionate about helping communities access federal and state funding for transformative change. His work has helped countless organizations overcome obstacles and achieve their goals.

LUNCH WITH EXHIBITORS

12:00 PM - 1:00 PM • Exhibit Hall

Sponsored by:





TECHNICAL SESSIONS

1:00 PM - 2:30 PM • Rooms 201-204, 207-208, 215, and 217









Wednesday, August 28, 2024

WEDNESDAY AFTERNOON BREAK/VISIT EXHIBITORS – DOOR PRIZE!

2:30 PM - 3:30 PM • Exhibit Hall

Sponsored by:



METER CHALLENGE

2:30 PM - 3:30 PM • Exhibit Hall

The Meter Challenge is your opportunity to challenge and compete against your fellow operators, engineers, and other water utility professionals. The competition is an individual event aimed at measuring an individual's skill at assembling a meter quickly, totally, and accurately. Each qualified participant is solely responsible for his/her performance. Winner of the local competition will have the chance to go to the national AWWA Meter Challenge, at ACE25 in Denver.

All sponsorship funds for Meter Challenge, Hydrant Hysteria, and Pipe Tapping support CSAWWA competitors' travel to the national competitions at AWWA's Annual Conference and Expo (ACE).







Wednesday, August 28, 2024

Hydrant Hysteria is a measure of a team's skill

HYDRANT HYSTERIA

2:30 PM - 3:30 PM • Exhibit Hall

at assembling a fire hydrant quickly, totally and accurately. All parts must be assembled in the proper manner and the reassembled hydrant is tested by the judges for its ability to operate correctly. Competitors race against the clock, and can be penalized in seconds for any errors in assembly.

Sponsored by:











TECHNICAL SESSIONS

3:30 PM - 5:00 PM • Rooms 201-204, 207-208, 215, and 217

Sponsored by:









PIPE CUTTING SHOOTOUT

4:00 PM – 5:00 PM • Exhibit Hall – Award Ceremony to Follow

Operations Challenge will conclude with the Pipe Cutting Shootout that happens during the Shooters Happy Hour. This event is open to any registered attendee. Please sign up to participate in the fastest single pipe cut competition. There is a men's and women's competition, and many first-time cutters then participate annually. Trophies and gift cards will be awarded to the fastest men's and women's cuts! See you Wednesday afternoon!



Wednesday, August 28, 2024

SHOOTERS HAPPY HOUR

4:00 PM - 5:30 PM • Exhibit Hall

Come network and enjoy light fare and drinks with our valued exhibitors while you watch attendees participate in the Pipe Cutting Shootout. Sodas, beer, and wine are complimentary and a cash bar for liquor will be available. After happy hour, come join your fellow attendees and exhibitors for a Fun Night at Seacrets®!

WOMEN IN WATER NETWORKING EVENT

5:00 PM - 6:30 PM • Bayfront Ballroom, Second Floor

All are welcome to join the Women in Water Networking Event and participate in engaging conversations and networking. This year's theme is all about giving back. While our event's mission is to support women in the water industry, how do we pay it forward and support



more communities? Let's share stories of volunteering, mentoring, and navigating meaningful ways of lending a hand. Please join us after the conclusion of Wednesday's technical sessions in the Bayfront Ballroom, located on the second floor of the convention center. Attendance is free but you must pre-register.













Wednesday, August 28, 2024

FUN NIGHT

7:00 PM - 11:00 PM • Seacrets® (ticketed event)

Fun Night at Seacrets has become THE networking/social event not to miss at Tri-Con! Everything is set for another fantastic evening with a cool Caribbean vibe plus great food, jammin' music, and even free transportation. Appetizers and a full dinner buffet are served starting at 7:30 PM, and each guest gets two free drink tickets. Chill on the beach with our DJ, or under the tent with the high energy party band The Way Outs. These four dudes, usually in Hawaiian shirts, will be playing all of your favorite dance music so hit the floor and have a great time rocking out with The Way Outs.

\$75: Tickets must be purchased by Tuesday, August 27, 2024. No tickets will be sold at the door or individually on Wednesday at the conference. Bring your name badge to use on the Ocean City buses for a free ride back to your hotel. Must be 21 years old to attend.













Thursday, August 29, 2024

REGISTRATION/CHECK-IN

7:30 AM - 4:00 PM • First Floor Lobby

Sponsored by:







EXHIBITS OPEN

7:30 AM – 12:30 PM • Exhibit Hall Move-Out: 12:30 PM – 4:00 PM

CONTINENTAL BREAKFAST

7:30 AM - 9:30 AM • Exhibit Hall

Sponsored by:



SILENT AUCTION BENEFITTING WATER FOR PEOPLE AND MARYLAND REENTRY RESOURCE CENTER

7:30 AM - 10:30 AM • Exhibit Hall

(continued from Wednesday)

See page 26 for more information.

TECHNICAL SESSIONS

8:30 AM - 10:00 AM • Rooms 201-204, 207-208, 215, and 217





Thursday, August 29, 2024

OPERATOR CLASSES

8:30 AM - 12:30 PM • Room 210

Advanced Wastewater

All Operators (Process)

Instructor: Bill Shreve, Sr., MCET and KCI Technologies Students will learn:

- · Nutrient impacts, regulations
- Chemical processes for nitrogen
- · Biological processes for nitrogen & phosphorus
- Filtration processes
- Groundwater discharge systems
- Membrane systems

2:00 PM - 5:30 PM • Room 210

Process Math for Operators

All Operators (Process)

Instructor: Scott Harmon, Trainer

This session will focus on mathematics and application fundamentals of the water and wastewater treatment industry. The class will focus on using math to understand water treatment processes. Upon completion of this course, personnel should be able to perform calculations needed to verify various plant processes. Examples include chemical dosing, detention time, pressure backwash flow rates, and horsepower pump rates.

Sponsored by:







THURSDAY MORNING BREAK/VISIT EXHIBITORS -DOOR PRIZE!

10:00 AM - 11:00 AM • Exhibit Hall

Sponsored by:



Thursday, August 29, 2024

PIPE TAPPING – MEN'S & WOMEN'S TEAMS! 9:30 AM – 11:30 AM • Exhibit Hall

The CSAWWA Tapping Competition is a competition of skill in which water operators work against the clock to open a cement-lined, ductile iron pipe and install a tap.

The pipe is filled and under pressure, just as it would be in the field. The competition winners are then eligible to compete in the national Tapping Competition. There are two divisions, Men's and Women's.

Sponsored by:













All sponsors directly support sending our winners to the national competition.

SPINIELLO

WATER TASTE TEST

10:00 AM - 11:00 AM • Exhibit Hall

Which utility has the very best tasting tap water in the Chesapeake region? Find out at this annual favorite. The winner will compete nationally at AWWA's ACE25 in Denver, Colorado! For more information, contact Chrissie Swann (cswann@carollo.com).

Sponsored by:





TECHNICAL SESSIONS

11:00 AM - 12:30 PM • Rooms 201-204, 207-208, 215, and 217

Sponsored by:





Thursday, August 29, 2024

BUSINESS LUNCHEONS

All conference attendees are welcome to attend the Association Business Luncheon of their choice – WWOA, CSAWWA, or CWEA (ticket purchase required). A buffet lunch is served as gavels are passed, and our leaders are recognized. Come to learn about how our associations work for you, and give our volunteers a big hand for delivering value to our members.

CSAWWA Luncheon (ticketed event)

12:30 PM - 1:45 PM • Dockside Hall (First floor, bayside) \$45 - register in advance

The CSAWWA Luncheon will include the following:

- Past Chair Award
 Chair's Honor Award
 Life Member Awards
- Silver Drop Awards Gold Drop Awards Committee Chair Recognition
- Surface Water Treatment Optimization Awards, presented by Maryland Department of the Environment, Water Supply Program

AWWA National Representative Cheryl Porter

President, American Water Works Association



Cheryl Porter is the Chief Operating Officer (COO) of Water and Field Services at Great Lakes Water Authority in Detroit, Michigan.

Her career in the water sector began in 1996 as a chemist for the City of Detroit Water and Sewerage Department and elevated to COO by 2014. Since joining

AWWA in 2005, Cheryl has been an active volunteer with AWWA and the Michigan Section of AWWA on various committees and has assumed leadership roles such as the MI-AWWA Board Trustee, AWWA Director-at-Large, and AWWA Vice President Board roles. In January 2023, Cheryl was elected by the AWWA Board of Directors to the role of AWWA Incoming President-Elect. Her presidential term runs from June 2024 to June 2025.

Cheryl holds a Bachelor of Science in Chemistry from the University of Michigan, a Juris Doctor from the University of Detroit Mercy School of Law, and an MBA from Madonna University.

Cheryl will be joined by Chelsea Boozer, a Young Professional Advisor to the AWWA Executive Committee.

Thursday, August 29, 2024

BUSINESS LUNCHEONS (CONTINUED)



Chelsea Boozer is Executive Director of Roque Water Lab, a nonprofit that believes we'll never solve our pressing water challenges without first improving public trust and truly engaging and involving our communities. Roque helps by equipping, empowering, and inspiring water providers to advance collaborative engagement

with people, policy makers, and businesses on the value of water in sustaining thriving communities. Rogue is home to Catalyst, a three-day experience revolutionizing stakeholder engagement by teaching attendees to relate to, engage, educate, and serve our communities.

Chelsea serves on the AWWA Executive Committee and Board of Directors, and on AWWA's Water Utility Council and Young Professionals Committee. She previously was the Government Affairs Manager for Central Arkansas Water, managing regionalism, stakeholder engagement, and government relations. Prior to water, Chelsea had an award-winning career in journalism. She has an MPA from Syracuse University and loves traveling with her six-year-old son.

CWEA Business Luncheon (ticketed event)

12:30 PM - 1:45 PM • Bayfront Ballroom (Second floor)

The following awards will be presented at the CWEA Business Luncheon:

- Rising Star Award
- Past President's Award
- Golden Raindrop
- 5S Awards
- Golden Manhole
- · RBC Beauty Contest Awards

WEF National Representative Janet Hurley Cann



Janet Hurley Cann, P.E., is a member of the 2023-24 Board of Trustees for the Water Environment Federation. She began her career as a regulator at the South Carolina Department of Health and Environmental Control and continued her career working for an upstate South Carolina water and sewer

service provider. Upon retiring in 2015, Janet worked as a consultant, until lured back to public service. Throughout her career, she managed a variety of projects including collection system expansion, pump station

Thursday, August 29, 2024

BUSINESS LUNCHEONS (CONTINUED)

and treatment plant construction upgrades, and the development of a collection system hydraulic model. She concluded her career, retiring in 2023, with a focus on the rehabilitation of distribution and collection systems, asset management, strategic planning, and grant writing.

Janet has been a member of the Water Environment Association of South Carolina (WEASC) since 1985. She has served WEF as Speaker of the House of Delegates, Treatment Community of Practice Director, and Vice Chair and Chair of the Committee Leadership Council. Janet has a Bachelor's Degree in Civil Engineering from Clemson University and Master's Degree in Civil Engineering from the University of South Carolina. She is a licensed engineer and biological wastewater operator trainee in the state of South Carolina.

Sponsored by:



WWOA Business Luncheon (ticketed event)

12:30 PM - 1:45 PM • Rooms 205-206

The following awards will be recognized at the WWOA Business Luncheon:

- The WWOA Lifetime Membership Award
- The WWOA Employer Recognition Award
- William McLean Bingley Award for Distinguished Service in Wastewater
- WWOA Award for Outstanding Personal Service to the Association
- The Barry Walter Award for Distinguished Service in Water Distribution
- · Distinguished Service in Water Treatment
- Distinguished Service in Wastewater Collection Systems
- WWOA Young Professionals Award
- WWOA Award for Administrative Excellence

Sponsored by:



Thursday, August 29, 2024

TECHNICAL SESSIONS

2:00 PM - 3:30 PM • Rooms 201-206, 207-208, 215, and 217

Sponsored by:





TOP OPS

2:30 PM - 4:30 PM • Dockside Hall (First floor)

Fast action and fun characterize this annual competition as teams of water plant operators square off against each other. The quiz show format tests the understanding and quick thinking of operators as they answer challenging technical, regulatory, and customer service questions.

COMPETITION
TOP DPS

The room will be filled with the spirit of contest as the participants are cheered, judges are booed, and competitors vie for a chance to go to the National Top Ops Challenge at the national AWWA Conference — to be held in Denver, Colorado in 2025. For more information, contact Anthony Rocco, Howard County Bureau of Utilities, 410-313-4945.

Sponsored by:







THURSDAY AFTERNOON BREAK- DOOR PRIZE!

3:30 PM - 4:00 PM • Second Floor Lobby

Sponsored by:



Thursday, August 29, 2024

TECHNICAL SESSIONS

4:00 PM - 5:30 PM • Rooms 201-204, 207-208, 215, and 217

Sponsored by:





AWARDS PROGRAM

5:30 PM - 6:30 PM • Bayfront Ballroom (Second Floor) DOOR PRIZE!

Everyone is welcome to enjoy refreshments and help recognize this year's award-winning members! Meet and congratulate award winners while enjoying hot and cold hors d'oeuvres. Sodas, beer, and wine are complimentary. Cash liquor bar will be available.

Our organizations have a number of prestigious awards to grant members who have demonstrated the very best of attributes that promote our missions. The following awards will be presented:

Tri-Association Conference

Tri-Association Conference Committee Service Award

WWOA

- William McLean Bingley Award for Distinguished Service in Wastewater
- WWOA Award for Outstanding Personal Service to the Association
- The Barry Walter Award for Distinguished Service in Water Distribution
- Distinguished Service in Water Treatment
- Distinguished Service in Wastewater Collection Systems
- WWOA Young Professionals Award
- WWOA Award for Administrative Excellence

Thursday, August 29, 2024

AWARDS PROGRAM (CONTINUED) CSAWWA

- Operator of the Year
- · Carl John Lauter Award
- George Warren Fuller Award
- Competition Winners Recognition: Top Ops, Pipe Tapping, Meter Challenge, Hydrant Hysteria, and Water Taste Test

CWEA

- · The Laboratory Analyst Award
- · The Hatfield Award Operators Award
- · The Bedell Award Service to the Organization

YOUNG PROFESSIONALS HAPPY HOUR

6:30 PM – 8:30 PM • Alley Oops Midtown Bowling – 56th Street (ticketed event)

Join us for an exciting event! The Young Professionals are hosting a night of networking and fun on Thursday, August 29, and everyone is welcome! The evening will feature engaging activities designed to foster meaningful connections among young professionals from various industries, and YPs from CWEA, WWOA, and CSAWWA. It's a fantastic opportunity to connect with peers, gain valuable insights, and establish new relationships within your professional network.

We hope you can join us for what promises to be a memorable evening. We'll enjoy happy hour and appetizers at Alley Oops Midtown Bowling Alley.

Space is limited to 70 people, so be sure to register early. Registration is required and includes one happy hour drink and appetizers. \$20. Don't miss out on this great opportunity!

Sponsored by:







Friday, August 30, 2024

REGISTRATION/CHECK-IN

7:30 AM - 10:30 AM • First Floor Lobby

Sponsored by:







SUNRISE YOGA ON THE BEACH (NEW!)

6:15 AM - 7:30 AM • Grand Hotel (21st Street) on the beach

Join us for the first-ever Tri-Con Sunrise Beach Yoga! Yoga will take place on the beach in front of the Grand Hotel. Enjoy beautiful views of the ocean and sunrise while doing an hour-long instructor-led yoga session. Kristin Quinn from Ocean City Yoga will be leading the session. No prior yoga experience is needed to participate. Yoga mats will be provided. \$30 early-bird registration/\$40 standard registration.

Inclement Weather Cancellation: In the event of inclement weather, yoga registrants will be contacted by email if the event is cancelled.



CONTINENTAL BREAKFAST

8:00 AM - 9:30 AM • Second Floor Lobby

Sponsored by:



Friday, August 30, 2024

TECHNICAL SESSIONS

9:00 AM - 10:00 AM • Rooms 201-204, 207-208, 215, and 217

MDE OPERATOR CERTIFICATION EXAM

9:00 AM - 12:00 PM • Room 210



FRIDAY MORNING BREAK - DOOR PRIZE!

10:00 AM - 10:15 AM • Second Floor

TECHNICAL SESSIONS

10:15 AM - 11:45 AM • Rooms 201-204, 207-208, 215, and 217

LAST CHANCE FOR TECHNICAL SESSION ATTENDANCE FORM SIGNATURES!

11:45 AM - 12:00 PM • Information Desk, First Floor Lobby

ADJOURN/MONSTER DOOR PRIZES

12:00 PM • Information Desk, First Floor Lobby



Wednesday, August 28, 2024

Speakers' names are in bold italics, and co-speakers' names are in italics.

ROOM 201-202 • ASSET MANAGEMENT

8:30 AM - 9:00 AM

Exploring Wet-weather Solutions Amidst Strict NPDES Discharge Limits Milad Ebrahimi, WSSC Water (milad.ebrahimi@wsscwater.com) limit Modi Black & Veatch

9:00 AM - 9:00 AM

Funding to Mitigate Disasters with "Fed Funds"

Karen Edwards-Lindsey, U.S. EPA (edwards-lindsey.karen@epa.gov)

9:30 AM - 10:00 AM

State Actions to Help Water Systems Achieve Sustainability through Asset Management Planning and Implementation

Deirdre White, ASDWA (dwhite@asdwa.ora)

1:00 PM - 1:30 PM

Cracks, Shrunken Windowsills, Water intrusion –

It's Time for a Condition Assessment!

Chrissie Swann, Carollo Engineers (cswann@carollo.com)

Christopher Barnhill, WSSC Water

1:30 PM - 2:00 PM

Advancing Facility Management with

Customized Cloud-based Tools for Condition Assessment

Andrew Burton, Carollo Engineers (aburton@carollo.com)

2:00 PM - 2:30 PM

Engineering Approach to Condition-Based

Maintenance for Mechanical Equipment

Joel Thompson, Stantec (joel.thompson2@stantec.com)

Ali Alavi, Stantec

3:30 PM - 4:00 PM

Asset Management – Building Information Management (BIM)

16th & Alaska Pump Station Pilot Demonstration

Monique Mirabeau, DC Water (monique.mirabeau@dcwater.com)

Michael Skerritt.Mott MacDonald

Oaechi Okpechi, DC Water

4:00 PM - 4:30 PM

How to Sweat the Small Stuff: A Risk Approach

for Rehabilitating Small Diameter Sewers

Emily Keller, Carollo Engineers (ekeller@carollo.com)

Ella Garcia. DC Water

Wednesday, August 28, 2024

Speakers' names are in bold italics, and co-speakers' names are in italics.

ROOM 201-202 • ASSET MANAGEMENT (CONTINUED)

4:30 PM - 5:00 PM

Manhole Inflow - The Uncomfortable Reality of How Much of Our Peak Wet Weather Flow is Related to Sheet Runoff James Shelton, ARCADIS (james.shelton@arcadis.com)

ROOM 203-204 • WASTEWATER TREATMENT

8:30 AM - 9:00 AM

Knock Out, Drag Out Fight: Centrifuge vs. Belt Filter Press – Title for Best Dewatering Technology to Squeeze Poop at Dunn Water Reclamation Facility!

Manuel Moncholi, Stantec (manuel.moncholi@stantec.com) Shyam Sivaprasad, Stantec

9:00 AM - 9:30 AM

Technology Spotlight:

Updates from Ecoremedy Fluid Lift Gasification Projects in PA and WA

Dion Banks, Ecoremedy LLC (dbanks@ecoremedyllc.com)

9:30 AM - 10:00 AM

Aligning Cogeneration Sizing with the Plant and Client's Goals (Big Plant Edition)

Christian Chiodo, Brown and Caldwell (cchiodo@brwncald.com)

1:00 PM - 1:30 PM

Trial By Fire: Conducting a Full-scale Pilot Study with an Emergent Disinfection Technology

Kyle Kinard, Harford County DPW (krkinard@harfordcountymd.gov)

1:30 PM - 2:00 PM

Operational Insights from the Patapsco WWTP: Lessons in Process Control and Rehabilitation

Chris Saunders, Hazen and Sawyer (csaunders@hazenandsawyer.com) Neal Jackson, Baltimore City

2:00 PM - 2:30 PM

Improving MBR Performance Monitoring and Maintenance with Control Chart Methodology

Mirzaman Zamanzadeh, inCTRL Solutions, Inc. (zamanzadeh@inctrl.com)

Wednesday, August 28, 2024

Speakers' names are in bold italics, and co-speakers' names are in italics.

ROOM 203-204 • WASTEWATER TREATMENT (CONTINUED)

3:30 PM - 4:00 PM

A PFAS Perspective – Laboratory, Landfills, and Biosolids Gary Hunter, Black & Veatch (huntergl@bv.com)

4:00 PM - 4:30 PM

Managing Wet Weather Challenges at the Pleasant Hills Authority WWTP Robert Dengler, Gannett Fleming (rdengler@gfnet.com)

4:30 PM - 5:00 PM

Not your Great, Great, Grandfather's Secondary Clarifier -

New Clarifier Inlet Optimization Technology

Todd Latchaw, Passavant-Geiger GmbH, a brand of Agseptence Group (todd.latchaw@passavant-geiger.com)

ROOM 207-208 • FUNDING

8:30 AM - 9:00 AM

AlexRenew's Interest in Loans to Deliver

Alexandria's Largest Infrastructure Project

Bridget Kocot, Brown and Caldwell (bkocot@brwncald.com)

Caitlin Feehan, AlexRenew

Lake Akinkugbe, AlexRenew

9:00 AM - 9:30 AM

The Growing Water Workforce:

Making the Case for Increased Water Infrastructure Funding

Kevin Letterly, ASDWA (kletterly@asdwa.org)

9:30 AM - 10:00 AM

How WIFIA Financing Benefits Communities

Karen Fligger, U.S. EPA (fligger.karen@epa.gov)



Wednesday, August 28, 2024

Speakers' names are in bold italics, and co-speakers' names are in italics.

ROOM 207-208 • WATER STORAGE TANKS

1:00 PM - 1:30 PM

Managing Elevated Water Storage Tank Rehabilitation: Lessons Learned from 100+ Tank Jobs in DelMarVa

Bernie Wigginton, Gannett Fleming (bwigginton@gfnet.com)

1:30 PM - 2:00 PM

A Challenging Tank Upgrade for a Rapidly

Growing System Constructed through the Pandemic

Christopher Soussanin, St. Mary's County Metropolitan Commission

(csoussanin@metcom.ora)

Andy Cooper, WRA LLP

Christy Hollander, St. Mary's County Metropolitan Commission

2:00 PM - 2:30 PM

Controlled Trench Blasting at Druid Lake - How to Keep the Drinking Reservoir In-service & Not Scare the Zoo Animals

William Wagner, Whitman, Requardt & Associates (wwagner@wrallp.com)

ROOM 207-208 • WATER DISTRIBUTION

3:30 PM - 4:00 PM

The Occoguan River Crossing Was a BLAST

Tim Bulford, Garney Construction (tbulford@garney.com)

4:00 PM - 4:30 PM

Pipe Bursting Proof of Use for Water Main Replacement: Insights from WSSC Water Pilot Project

Yudu (Sonia) Wu, WSP (yudu.wu@wsp.com)

Keith Solomon, WSSC Water

Thomas Payne, WSP

4:30 PM - 5:00 PM

CIPP Lining of Water Mains – A Cost-Effective Solution

Khalid Qadwai, EBA Engineering, Inc.

(khalid.gadwai@ebaengineering.com)

Wednesday, August 28, 2024

Speakers' names are in bold italics, and co-speakers' names are in italics.

ROOM 215 • UTILITY MANAGEMENT/ETHICS

8:30 AM - 9:00 AM

SAFETY FIRST: Fire Protection Assessments for WWTPs Jason Vernooy, GHD (jason.vernooy@ahd.com)

9:00 AM - 10:00 AM

Ethics in Patenting for Professional Engineers

Clifton E. McCann, FisherBroyles (clifton.mccann@fisherbroyles.com)

ROOM 215 • UTILITY MANAGEMENT

1:00 PM - 1:30 PM

Automation and Analysis: Data-Driven Strategies Improve Utility Processes and Analyze Performance at WSSC Water Dan Scrutchfield, ARCADIS (daniel.scrutchfield@arcadis.com) Andres Villarraga, WSSC Water

1:30 PM – 2:00 PM

Collaborative Project Delivery with Drone Technology Brandon Reider, Garney Construction (breider@garney.com) Clay Greene, Garney Construction

2:00 PM - 2:30 PM

Using Data to Target Customer Engagement and Outreach Efforts in Your Financial Assistance Programs Jay Sakai, 4Tenets Consulting (jsakai@fourtenets.com) Kelly Caplan, WSSC Water

3:30 PM - 4:00 PM

Complying with AWIA 2025 Deadline

Patti Kav Wisniewski, EPA Region III (wisniewski, patti-kav@epa.gov)

4:00 PM - 4:30 PM

The Importance of Cyber Resiliency in the Modern Utility: St. Louis MSD's Journey Jonathon Sprague, HDR (jonathon.sprague@hdrinc.com) Ginny Kienstra, Metropolitan St. Louis Sewer District

4:30 PM - 5:00 PM

Howard County Bureau of Utilities Water Isolation Tracer Tool Jeff Edgin, Howard County Bureau of Utilities (jedgin@howardcountymd.gov)

Wednesday, August 28, 2024

Speakers' names are in bold italics, and co-speakers' names are in italics.

ROOM 217 • COLLECTION SYSTEMS

8:30 AM - 9:00 AM

From Catastrophe Crisis to Resilient Renewal: Leveraging Innovation to Accelerate the Emergency Design and Construction of a Failed 48-inch Force Main

Paul Longo, Dewberry (plongo@dewberry.com) Richard Kincheloe, Dewberry

9:00 AM - 9:30 AM

Outfall-ing Down!

Jordan Rang, KCI Technologies (jordan.rang@kci.com)

Daniel Sullivan, City of Baltimore Dept. of Public Works Steven Walsh, Ulliman Schutte Construction

9:30 AM - 10:00 AM

Streamlining Infrastructure: Relocating a Sewage Interceptor for a Major Highway Interchange Vanessa Nedrick, Remington & Vernick Engineers (vanessa.nedrick@rve.com)

ROOM 217 • OPERATIONS/MAINTENANCE

1:00 PM - 1:30 PM

Safety Regulations Relating to Internal Pipeline Inspection Russell Deason, HDR Inc. (rdeason@hdrinc.com) Michael Higgins, HDR Inc.

1:30 PM - 2:00 PM

Impacts of Streamlined Data Visualization on Program Delivery Chad Whitley, HDR Inc. (chad.whitley@hdrinc.com) Grace Caballero, HDR Inc.

2:00 PM - 2:30 PM

Sewer Data Management and O&M Plan Optimization in the City of Baltimore's Department of Public Works Jim O'Dowd, AECOM (jim.o'dowd@aecom.com) Paul Sayan, City of Baltimore's Dept. of Public Works

Wednesday, August 28, 2024

Speakers' names are in bold italics, and co-speakers' names are in italics.

ROOM 217 • COLLECTION SYSTEMS

3:30 PM - 4:00 PM

HRSD WWTP Primary Clarifier Influent & Effluent Pipe Rehabilitation Atilana Bolton, Structural Technologies (abolton@structuraltec.com) Anna Pridmore, Structural Technologies Terry Zentkovich, RK&K

4:00 PM - 4:30 PM

How to Effectively Perform a Pipeline Health Check for Sewer Force Mains Christina Camonayan, RJN Group (christina.camonayan@rjnmail.com) Christopher Korpman, Baltimore County

4:30 PM - 5:00 PM

Post-COVID-19 Modern Trash Loading Proves Sewage Pump Clog Resistance Cannot Be Predicted by Impeller Throughlet Size Robert Domkowski, Xylem, Inc. – Flygt (bob.domkowski@xylem.com)



Thursday, August 29, 2024

Speakers' names are in bold italics, and co-speakers' names are in italics.

ROOM 201-202 • ASSET MANAGEMENT

8:30 AM - 9:00 AM

Refining PCCP Inspections by Understanding Electromagnetic Field Interactions

Ad Shatat, APPIA (ad@appia.solutions)

Chris Garrett, APPIA

9:00 AM - 9:30 AM

Water Main Predictions:

How Good Old Statistics Still Help in the Age of Al

Annie Vanrenterghem, infraPLAN (avanraven@infraplan-llc.com)

9:30 AM - 10:00 AM

How to Predict the Uncertain: DC Water's Use of

Monte Carlo Analysis to Quantify Lead Service Lines in DC

Matthew Young, DC Water (youngms@cdmsmith.com)

William Elledge, DC Water

11:00 AM - 11:30 AM

Indirect Corrosion Inspection for Water Pipelines

Andrew Fuller, EDT Inc. (andrew.fuller@edtinc.net)

Gwen Sullivan, EDT Inc.

Hassan Rashidian Dezfouli (hassan.dezfouli@edtinc.net)

11:30 AM - 12:00 PM

What Goes First? A Prioritization Approach for Very Large Sewers

Laura Khouvilay, Carollo (Ikhouvilay@carollo.com)

Ella Garcia, DC Water

12:00 PM - 12:30 PM

Comparison & Validation of Water Pipe Condition Assessment Results on a 16-inch Cast Iron Pipe from Two Inspection Technologies

Claire Chen, Mott MacDonald (yungi.chen@mottmac.com)

Churchill Okonkwo, DC Water

Jessica Shiao DC Water

2:00 PM - 2:30 PM

Charm City Criticality: Optimizing Valve Management in Baltimore

Ethan Vidal, Xylem (ethan.vidal@xylem.com)

Greta Vladeanu, Xylem

2:30 PM - 3:00 PM

Navigating the Transition to ESRI's Utility Network

Natalie Ciletti, AECOM (natalie.ciletti@aecom.com)

Anthony Dowell, AECOM

Thursday, August 29, 2024

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ROOM 201–202 • ASSET MANAGEMENT (CONTINUED)

3:00 PM - 3:30 PM

Smart Geospatial Analytics: Revolutionizing Corrosion Management in Water and Wastewater Infrastructure Wenxuan Dong, Black & Veatch (dongw1@bv.com)

4:00 PM - 4:30 PM

Streamlining Sustainability: A Tailored Asset
Management Approach for Small Community Water Systems
Nirav Shah, RK&K (nshah@rkk.com)
Jay Guyer, Municipal Services Commission

4:30 PM - 5:00 PM

Where Is That File? Document Management Tools and Methods for Inspection and Condition Assessment Projects Chandra Vavilala, DC Water (chandra.vavilala@dcwater.com)

Abdulhameed Kutubi. DC Water

5:00 PM - 5:30 PM

Maximizing Project Success through Integrated Asset Management and Strategic Planning: Case Study DC Water Getachew Melsew, DC Water (gmelsew@dcwater.com)

Zelalem Hailu. DC Water

ROOM 203–204 • WASTEWATER TREATMENT

8:30 AM - 9:00 AM

Challenging the Retention Time of Anaerobic Digestion Using Thermal Hydrolysis Pretreatment Bill Barber, Cambi (bill.barber@cambi.com)

9:00 AM - 9:30 AM

Challenges of Low BOD/TSS Ratios in Wastewater Treatment: A Case Study Analysis

Karthik Manchala, Virginia Tech (mkarthikreddy@gmail.com)

9:30 AM - 10:00 AM

Anaerobic Digestion with H2S & Nutrient Control – What If Your Digesters Were the Sidestream?

Matthew Williams. Thermal Process Systems

(mwilliams@thermalprocess.com) 11:00 AM – 11:30 AM

How Low Can We Go? Successful Low DO Operations for Biological Nutrient Removal at Pomona WRF *Michelle Young, Carollo Engineers, Inc. (myoung@carollo.com)*

Thursday, August 29, 2024

Speakers' names are in bold italics, and co-speakers' names are in italics.

ROOM 203-204 • WASTEWATER TREATMENT (CONTINUED)

11:30 AM - 12:00 PM

Innovative New Media with Advanced

Deep Bed Primary Filtration Makes Significant Strides

Amit Kaldate, Tomorrow Water (ak@tomorrowwater.com)

12:00 PM - 12:30 PM

Retrofitting Solutions for High and Variable

Airflows Using Low-Pressure Membrane Diffusers

Ladan Holakoo, Jacobs (ladan.holakoo@jacobs.com)

2:00 PM - 2:30 PM

Out with the Old and In with the New

Ezgi Kurdoglu, Maryland Environmental Service (ekurdoglu@menv.com)

Mark Kaiser, Maryland Environmental Service

2:30 PM - 3:00 PM

Optimizing DC Water's Aerated Grit

Chambers with Innovative TruGrit Approach

Jason Kerns, HDR Inc. (jason.kerns@hdrinc.com)

Ryan Little, DC Water

Ryu Suzuki, DC Water

3:00 PM - 3:30 PM

An Innovative Lime Slurry System Provides Low cost,

Transitional & Contingency Solutions for Biosolids Stabilization

Malcolm Taylor, WSSC Water (malcolm.taylor@wsscwater.com)

4:00 PM - 4:30 PM

Bay-Driven Regulations:

Innovative Nutrient Mitigation Strategies for Wilmington WWTP

Heather Stewart, Jacobs (heather.stewart10@jacobs.com)

Liie Hill, Jacobs

4:30 PM - 5:00 PM

Continuous Flow Aerobic Granular Sludge Process

Helps with Sustainable Upgrades at WRRFs

Amit Kaldate, Tomorrow Water (ak@tomorrowwater.com)

5:00 PM - 5:30 PM

Can You Spiral Down to ENR Easily...

MABR Can Help You Reach a TN of 3 with No Additional Carbon

Bruce Stevens, FLUENCE (bstevens@fluencecorp.com)

Jason Loar, Davis, Bowen & Friedel, Inc.

Thursday, August 29, 2024

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ROOM 207-208 • WATER TREATMENT

8:30 AM - 9:00 AM

Rejuvenating the Montebello Water Filtration Plant

for the Next 100 Years of Service

Jeffrey Thompson, Whitman, Requardt & Associates (jthompson@wrallp.com)

Remi Urbonas, Baltimore City

Timothy Wolfe. Baltimore City

9:00 AM - 9:30 AM

Closing the Loop on PFAS: An Overview of PFAS Destruction Technologies to Expand PFAS Mitigation Efforts in Water & Wastewater Donald Ryan, Stantec (donald.ryan@stantec.com)

9:30 AM - 10:00 AM

Programmatic Rapid Deployment of Small-Scale PFAS Wellhead Treatment Sean Lammerts, Black & Veatch (lammertssj@bv.com) Joseph Pearce, Aqua America

11:00 AM - 11:30 AM

Evaluating the Presence of PFAS and Gen-X Chemicals in a Raw Water Source and Developing a Treatment Strategy for a 12 MGD Water Treatment Plant

Mark Notheis, Jacobs (mark.notheis@jacobs.com)

11:30 AM - 12:00 PM

How Pilot Testing Changed the Design of a PFAS Treatment Facility **Sophia Liskovich, Gannett Fleming (sliskovich@gfnet.com)**Jackie Mawalla, Gannett Fleming

12:00 PM - 12:30 PM

Effective PFAS Removal and Waste Reduction using a Novel Micro-adsorbent Slurry & Separations Technology John Dyson, Aqua-Aerobic Systems (jdyson@aqua-aerobic.com)

2:00 PM - 2:30 PM

Ending the Use of Chlorine Gas at Major City of Baltimore Drinking Water Sites – How to Improve Safety and Reduce Chemical Demands

Tim Weaver, Whitman, Requardt & Associates (tweaver@wrallp.com)

2:30 PM - 3:00 PM

Lead Sampling Plan Development for Schools and Childcare Facilities Under the LCRR Baljit Sidhu, Hazen and Sawyer (bsidhu@hazenandsawyer.com)

Thursday, August 29, 2024

Speakers' names are in bold italics, and co-speakers' names are in italics.

ROOM 207-208 • WATER TREATMENT (CONTINUED)

3:00 PM - 3:30 PM

Leveraging BAC to Remove HAA in Drinking Water – Innovative DBP Treatment Pilot Testing to Supplement Charles County's Water Supply Christopher Ramo, Hazen and Sawyer (cramo@hazenandsawyer.com)

Alicia Afroilan, Charles County Meric Selbes, Hazen and Sawyer

4:00 PM - 4:30 PM

Novel UVLED Reactor for Indirect Potable Reuse Tara Randall, HDR (tara.randall@hdrinc.com)

4:30 PM - 5:00 PM

What Happens During Drought? Impacts on Sourcewater and Treatment Priscilla To, WSSC Water (priscilla.to@wsscwater.com)

5:00 PM - 5:30 PM

Carbon-Based Advanced Treatment Brings (Direct) Potable Reuse to the East Eva Steinle-Darling, Carollo (esd@carollo.com)

ROOM 215 • UTILITY MANAGEMENT

8:30 AM - 9:00 AM

Lessons Learned from Operational Excellence and Collaborative Culture at the Patapsco Wastewater Treatment Plant Chris Saunders, Hazen and Sawyer (csaunders@hazenandsawyer.com)

Neal Jackson, Baltimore City

9:00 AM - 9:30 AM

Tackle Brain Drain:

Howard County's Approach to Capture Institutional Knowledge

Ben Asavakarin, JMT (basavakarin@jmt.com)

Sanjay Kulkarni, Howard County

9:30 AM - 10:00 AM

Work at Baltimore City DPW – Why Would You Do That?

Paul Sayan, City of Baltimore Dept. of Public Works (paul.sayan@baltimorecity.gov)

Brian Ball, City of Baltimore

Timothy Wolfe, City of Baltimore

Thursday, August 29, 2024

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ROOM 215 • UTILITY MANAGEMENT (CONTINUED)

11:00 AM - 11:30 AM

Delivering on a Critical Linear Infrastructure Project for Garrett County: Meeting Constructability Challenges while Providing Resiliency

Ranjith Ravindiran, A. Morton Thomas and Associates (rravindiran@amtengineering.com)

Bobby Witt, Garrett County

11:30 AM – 12:00 PM

Understanding Non-Revenue Water Using AWOL

Michael Skerritt, Mott MacDonald (michael.skerritt@mottmac.com)

Kenrick Stlouis, DC Water

Tayina Tardieu, McKissack & McKissack

12:00 PM - 12:30 PM

A Sustainable Strategy for WSSC's Water Supply and Treatment: Climate Impacts, Water Quality Trends & Regulatory Challenges

Naomi Souza, Ramboll (naomi.souza@ramboll.com)

Narayan Venkatesan, Ramboll

Priscilla To, WSSC Water

2:00 PM - 2:30 PM

Holistic Design Processes and Post Construction

Monitoring of In-Stream Asset Protection

Jessica Krueger, RK&K (jkrueger@rkk.com)

Chris Caro, WSSC Water

2:30 PM - 3:00 PM

Collaboration in Mitigating SSO Risk in Buried Stream Crossing

Steve Bian, DC Water (steve.bian@dcwater.com)

Tim Bako, Spiniello

3:00 PM - 3:30 PM

Cherry Hill Drainage Improvement to Mitigate Flooding in Baltimore's Cherry Hill Neighborhood

Elizabeth Kanner, STV Inc. (elizabeth.kanner@stvinc.com)

Jalil Abdul, Baltimore City

4:00 PM - 4:30 PM

Lead Free DC – Public/Private Partnership,

Lead Pipe Replacement Program (LPRAP)

Lori Reid, Ramboll (lori.reid@ramboll.com)

Gian Cossa. DC Water

Thursday, August 29, 2024

Speakers' names are in bold italics, and co-speakers' names are in italics.

ROOM 215 • UTILITY MANAGEMENT (CONTINUED)

4:30 PM - 5:00 PM

What Happens When Your Lead Inventory Map Needs to Account for Data that Is "Mostly" Correct: How DC Water Updated its Inventory Map

Andrew Welter, Ramboll (andrew.welter@ramboll.com)

Matthew Young, CDM Smith William Elledge, DC Water

5:00 PM - 5:30 PM

A Lead and Copper Rule Service Line Inventory Through a Digital Approach: A Case Study from the City of Rockville, MD

Chakavak Hajsoleymani Kamran, CDM Smith (kamranc@cdmsmith.com)

Matthew Brew, City of Rockville

Trevor McProud. CDM Smith

ROOM 217 • COLLECTION SYSTEMS

8:30 AM - 9:00 AM

Kicking It Up a Notch: Year 2 in Modernizing CSO Management Jennifer Baldwin, Jacobs (jennifer.baldwin@jacobs.com) Patrexia Tampon, Jacobs

9:00 AM - 9:30 AM

Best Practices Learned from 20 Years of Large

Diameter PCCP Force Main Monitoring & Management Philip Hwang, Pure Technologies (a Xylem Brand)

(philip.hwang@xylem.com)

Mohina Sharma, Xvlem

9:30 AM - 10:00 AM

Leveraging Real-Time Performance Data for Daily Operations and Long-Term Planning of Wastewater Collection Systems

Don Shields, New Jersey American Water

(donald.shields@amwater.com)

John Marciszewski, SmartCover

11:00 AM - 11:30 AM

Collaborative Delivery & Innovation Pass the Test of an At-Risk Wastewater Interceptor Rehabilitation Challenge

Chris Garrett, Brown and Caldwell (caarrett@brwncald.com)

Getachew Melsew, DC Water

Thursday, August 29, 2024

Speakers' names are in bold italics, and co-speakers' names are in italics.

ROOM 217 • COLLECTION SYSTEMS (CONTINUED)

11:30 AM - 12:00 PM

Critical Thinking & Swift Mitigation in Saving a Century Old Masonry Trunk Sewer in Washington, DC

Renni Zhao, PhD, DC Water (rzhao@dcwater.com)

Steve Bian, DC Water

Tahir Qureshi, Engineer, DC Water

12:00 PM - 12:30 PM

Repairing History – DC Water's Experience Designing Rehabilitation of a 150-year Old Sewer

Anthony Laufik, Greeley-Hansen (alaufik@greeley-hansen.com)

Haile Tsehayu, DC Water Steve Bian, DC Water

ROOM 217 • OPERATIONS/MAINTENANCE

2:00 PM - 2:30 PM

Spinning Ain't Winning -

Properly Setting Minimum Speeds on VFD Driven Pumps

Michael Bernard, Specific Energy (mike.bernard@specificenergy.com)

2:30 PM - 3:00 PM

Cathodic Protection Installation and Testing

Andrew Fuller, EDT Mid-Atlantic (andrew.fuller@edtinc.net)

3:00 PM - 3:30 PM

Phased Construction for Expedited Gravity Thickener Rehabilitation Chris Painter, HDR Inc. (christopher.painter@hdrinc.com) Jason Kerns, HDR Inc.



Thursday, August 29, 2024

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ROOM 217 • STORMWATER

4:00 PM - 4:30 PM

Predicting Interior Flooding: Building an Integrated Flood Model for Washington, DC Christine Estes, AECOM (christine.estes@aecom.com) Alireza Parhami, DC Water

4:30 PM - 5:00 PM

Stormwater Utility: Revenue Generation and Expenditure Patterns in the Chesapeake Bay Area Adrielli Bonfanti Pagnoncelli, Morgan State University (adpag2@morgan.edu)

5:00 PM - 5:30 PM

Using a Digital Twin and AI to Predict Surface Water Quality and Flood Events

Christopher Tryon, Mott MacDonald (christopher.tryon@mottmac.com)



Friday, August 30, 2024

Speakers' names are in bold italics, and co-speakers' names are in italics.

ROOM 201-202 • UTILITY MANAGEMENT

9:00 AM - 9:30 AM

How to Avoid the #1 Mistake in Public Communications Before Your Service Line Inventory Rollout

Mike Mcgill, WaterPIO (mike@waterpio.com)

9:30 AM - 10:00 AM

Equitable Infrastructure Investments for Equitable Outcome –

DC Water's Experience

Getachew Melsew, DC Water (gmelsew@dcwater.com)

Jennifer Belknap, Carollo Engineers

William Elledge, DC Water

10:15 AM - 10:45 AM

Innovative Project Delivery:

CMAR Design-Build for Success in Water Projects

Anna Kazasi, Virginia American Water (anna.kazasi@amwater.com)

Thomas Lawlor, Bowen Engineering

10:45 AM - 11:15 AM

Soooo... How Did Your First CMAR go?

Jessica Hou, Gannett Fleming (jhou@afnet.com)

Holly Anne Matel, HRSD

Kristina Bruns, Ulliman Schutte Construction

11:15 AM - 11:45 AM

Why Would You Use Multi-prime Contracting When You Don't Have to?

Thor Young, GHD (thor.young@ghd.com)

Steven Clark, GHD

ROOM 203-204 • WASTEWATER TREATMENT

9:00 AM - 9:30 AM

Growing Up Together Lessons Learned During Startup: Commissioning Sidestream Deammonification Concurrent with THP Digestion

Paul Le Bel, Hazen and Sawyer (plebel@hazenandsawyer.com)

Matthew Van Horne, Hazen and Sawyer

9:30 AM - 10:00 AM

Steam Treatment and Thermal Hydrolysis:

A Synergistic Approach in Solids Management

Rafael Iboleon, Stantec (rafael.iboleon@stantec.com)

Friday, August 30, 2024

Speakers' names are in bold italics, and co-speakers' names are in italics.

ROOM 203-204 • SYSTEMS OPERATIONS

10:15 AM - 10:45 AM

An Instrument Calibration Program Is Key to Quality Water Treatment

Charles Bartley, JJA Technical Services

(cbartley@jjatechnicalservices.com) Jay Alford, JJA Technical Services

10:45 AM – 11:15 AM

Staring into the Abyss: Using Remote Operated

Submarines to Safely Inspect Underwater Infrastructure

Prarthana Pradhan, Carollo Engineers (ppradhan@carollo.com)

11:15 AM - 11:45 AM

Opening Opportunities with Cross-Connection Thinking – DC Water's Path to Enhancing their CCC Program

Mangaliso Goba, Mott MacDonald (mangaliso.goba@mottmac.com)

Pierre Constant, DC Water

ROOM 207-208 • ETHICS

9:00 AM - 10:00 AM

Ethics Regulations and Cases in Engineering Samuel Grant, Whitman, Requardt and Associates, LLP

(smgrantdpw@yahoo.com)

ROOM 207-208 • WASTEWATER TREATMENT

10:15 AM - 10:45 AM

PFAS: The Latest on an Ever Evolving Regulatory Landscape – National & State Update

Mary Firestone, Mid-Atlantic Biosolids Association (MABA) (mfirestone@mabiosolids.org)

10:45 AM - 11:15 AM

An Award-winning Gasification Technology

Shows Capacity of destroying PFAS In Biosolids:

Australian Initiative to Transform Sewage Sludge into Energy

Shashank Khatiwada, Stantec (shashank.khatiwada@stantec.com)

11:15 AM - 11:4<u>5</u> AM

PFAS in Biosolids: What Pros Need to Know

Rashi Gupta, Carollo Engineers (rgupta@carollo.com)

Friday, August 30, 2024

Speakers' names are in bold italics, and co-speakers' names are in italics.

ROOM 215 • UTILITY MANAGEMENT

9:00 AM - 9:30 AM

Assessment of First Floor Elevations Using Unmanned Aerial Vehicles Sean Farley, ARCADIS (sean.farley@arcadis.com)

9:30 AM - 10:00 AM

Building Climate Resiliency into Flood-Prone Facilities Rachel Albrecht, Albrecht Engineering, Inc. (ralbrecht@ *albrechtengineering.com)*

10:15 AM - 10:45 AM

Preparing Your Water Utility for a Lower Carbon Future Nicolle Boulay, Stantec (nboulay@stantec.com)

10:45 AM - 11:15 AM

Planning for The Future: Coastal Resilience Modeling For Public Utilities Erin Rooney, HDR Inc. (erin.rooney@hdrinc.com) David Moore, HDR Inc.

11:15 AM - 11:45 AM

Building Resilience and Adapting to Climate Change Impacts for Drinking Water & Wastewater Utilities Audrey Ramming, EPA (ramming.audrey@epa.gov)



Friday, August 30, 2024

Speakers' names are in bold italics, and co-speakers' names are in italics.

ROOM 217 • STORMWATER

9:00 AM - 9:30 AM

Frederick County's Approach to Water Resources Element Updates Ted Saltos, Dewberry (tsaltos@dewberry.com)

Jessica Seipp, Dewberry

Kimberly Gaines, Frederick County

9:30 AM - 10:00 AM

Leveraging Private Ownership and Real-Time Control for Cost-Effective Stormwater Treatment in Howard County, MD

Jason Murnock, OptiRTC, Inc. (jmurnock@optirtc.com)

Lindsay DeMarzo, Howard County

10:15 AM - 10:45 AM

A 21st Century Tool to Address 21st Century Flooding: Baltimore's Approach to Identifying Concern Areas and Solutions Matthew Zelin, Hazen and Sawyer (mzelin@hazenandsawyer.com) Jemil Yesuf, Baltimore City

10:45 AM - 11:15 AM

Integrated Short- and Long-Term Approaches to Reduce Nutrient Loading at a Major Recreation Lake Amenity Christina Hughes, Ramboll (cmhughes@ramboll.com) Michael Mannina, Ramboll

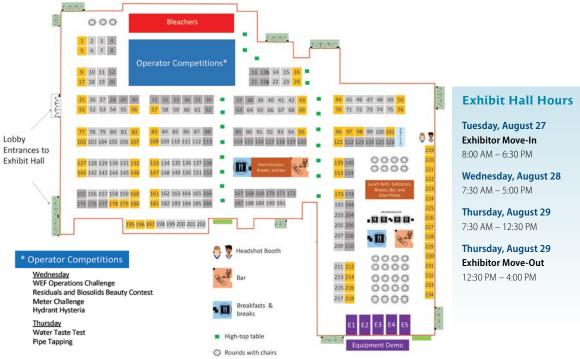
11:15 AM - 11:45 AM

Stormwater Management for Flood Resiliency: A Comparison of Approaches

Matthew Vanaskie, HRG (mvanaskie@hrg-inc.com)



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CSAWWA 2023-2024 Officers and Committee Chairs

Chair, Awards Chair, Finance Chair	Elford Jackson
Chair Elect, Tri-Con Program	Anna Kazasi
Past Chair, Nominations	Jay Kirk
Director (2023–2026)	Andy Cooper
Secretary/Treasurer	Benjamin Thompson
Asst. Secretary/Treasurer, By-Laws Chair	Annie Ding
Trustee – Events	Ethan Vidal
Trustee – Philanthropic and Workforce	Abbie Smith
Trustee – Stakeholder Engagement	Nicole Horvath
Trustee – Technical Committees	Jeremy Hise
Executive Director	Rachel Ellis
Asset Management	Yudu (Sonia) Wu
Asset Management Vice Chair	Vennila Durai
AWWA Training Grants	John Moore
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Chesapeake Magazine Vice Chair	Andrew Fuller
Communications/Public Relations	Allison Dyott
Community Engagement	Kimberly Cluney
Community Engagement Vice Chair	Nick D'Angelo
CTA Board Liaison	Eric Held
Delaware/Eastern Shore	Joe Nattress
Diversity, Equity, Inclusion; Scholarship Fund Board; Short Courses Committee	Angela Ballard-Landers
Diversity, Equity, Inclusion Vice Chair	Becc Jimenez
Government Affairs	Chris Phipps
Government Affairs Vice Chair	Karen Dettmer
CTA Director, Manufacturers and Associates Committee Tri-Con Committee Voting Member	
MDE Liaison	
Membership	Ivy Swann
Membership Vice Chair	Michael Skerritt

CSAWWA 2023-2024 Officers and Committee Chairs (Continued)

Mid-Atlantic Utility Conference Chair	Chein-Chi Chang
Mid-Atlantic Utility Conference Vice Chair	Chris Phipps
Mid-Atlantic Utility Conference Vice Chair	Art Shapiro
Mid-Atlantic Utility Conference Vice Chair	Joseph Siemek
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Operations and Safety Co-Chair; Short Courses	Robert Swann
Operations and Safety Vice Chair	James (JC) Langley
Operator Competitions	Bob Johns
Philanthropy; Spring Meeting	Carrie Kruger
Scholarship Fund Board Chair	Ann Mulhern
Scholarship Fund Board; Tri-Con Committee Voting Member	Sophia Liskovich
Short Courses Committee	Dinesh Bahadurshingh
Short Courses Committee	Jay Price
Short Courses Committee	Dave Wilkins
Source Water Protection	Josh Weiss
Top Ops	Anthony Rocco
Tri-Con Committee Voting Member	Raj Arora
Tri-Con Committee Voting Member	Erica Whorley
UMD Student Chapter	Catherine Corey
UMD Student Chapter	Rebecca Patterson
Water Distribution	James LeMire
Water Distribution Vice Chair	Jason Poole
Water Quality	Nicolle Boulay
Water ReUse (Joint with CWEA)	Kelly Landry
Water Taste Test	Christina Swann
YPs and Students	Jeffrey Lorencen
YPs and Students Vice Chair	Jason Lee

CWEA 2023-2024 **Officers & Committee Chairs**

President	Clarence Beverhoudt
President-Elect	Gary Moore
Vice-President	Alana Gildner
Secretary	Cheryl Paulin
Past-President	Cece Nguyen
Treasurer	Danielle Sheahan
CTA Representative	Kraig Moodie
MD Trustee	Jegnaw Essatu
DC Trustee	Jessica Shiao
DE Trustee	Chaka Kamran
WEF Delegate	Ellen Frketic
WEF Delegate	Laura Oakes
Utility Member Representative	Yvette Judge
Asset Management Chair	Bhaumik Hotha
Asset Management Vice-Chair	Theresa Bruton
Audit Chair	Kraig Moodie
Awards Co-Chair	Gary Moore
Awards Co-Chair	Alana Gildner
Awards Vice-Chair	Eric Held
Budget & Finance Chair	Ellen Frketic
Budget & Finance Vice-Chair	Laura Oakes
Business Practices Chair	Gary Moore
Bylaws Chair	Alan Will
Collection Systems Chair	Bryant Welch
Collection Systems Vice-Chair	Charles Poskas
DE&I Chair	Eric McFarland
DE&I Vice-Chair	Monty Simon
Government Affairs/Fly-In Co-Chair	Liz Colletti
Government Affairs/Fly-In Co-Chair	Justin Hall
Laboratory Practices Chair	David Wildasin
Laboratory Practices Vice-Chair	Dave Baker
Leadership On-Boarding Chair	Gary Moore
Leadership On-Boarding Vice-Chair	Alana Gildner
MDE W/WW Board Liaison	Clark Howells
Membership Chair	Laura Oakes
Membership Vice-Chair	Gregg lskra

CWEA 2023-2024 Officers & Committee Chairs (Continued)

Nominations Chair	Gary Moore
Nominations Vice-Chair	Alana Gildner
Plant Operations, Maintenance, & Safety Chai	rJoe Wright
Plant Operations, Maintenance, & Safety Vice-	-ChairTyrus Hunter
Public Communications & Outreach Chair	Emma Danz
Public Communications & Outreach Co-Chair	Brandon Friedland
Publications Chair	Chaka Kamran
Publications Vice-Chair	Islam Khallaf
Residuals & Biosolids Management Chair	Hahns Hairston
Residuals & Biosolids Management Vice-Chai	r Mark Ramirez
Sponsorship Chair	Andrew Kreider
Spring Meeting Co-Chair	Chrissie Swann
Spring Meeting Co-Chair	Bethel Abate
Spring Meeting Vice-Chair	Charles Poskas
Stormwater Co-Chair	Beth Forbes
Stormwater Co-Chair	Alexi Sanchez de Boado
Stormwater Vice-Chair	Justin Bell
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Student Activities Co-Chair – Joint Hiring Eve	nt Alexis Wingfield
Student Activities Co-Chair – Student Design	CompetitionTom Howard
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Technical Education Vice-Chair	Chike Monwuba
Training, Review, & Evaluation Chair	Clark Howells
Utility Management Conference Chair	Gian Cossa
Water Reuse Chair	Andrew Kreider
YH2O/Mentorship Co-Chair	Dennis Hasson
YH2O/Mentorship Co-Chair	Moalie Jose
YH2O/Mentorship Vice-Chair	Kraig Moodie
Young Professionals Co-Chair	Tom Howard
Young Professionals Co-Chair	Carlos Mejia
Young Professionals Vice-Chair	Travis Gold
CWEA Short Course Committee	
	Noelle Anuszkiewicz, Wayne Reed
CWEA Tri-Association Conference Reps	Gian Cossa, Clarence Beverhoudt, Pono Hanson, Jegnaw Essatu

Board Members & Committee Chairs

WWOA 2023-2024 **Officers & Committee Chairs**

President	Bob Johns
President Elect	Bill Shreve, Sr.
Past President	Scott Getchell
Secretary	Kristy McAndrew
Treasurer	Mike Emery
Eastern Shore Director	Jake Bryan
Central Section Director	Winfield McKell
Southern Section Director	Tom Spalding, Jr.
Western Section Director	Bruce Darner
Awards	Kevin Quinn
By-Laws	Karl Ott
Board of Certification Liaison, Delaware	Sarah Smith
Board of Certification Liaison, Maryland	Bruce Darner
Ecoletter Magazine	Floyd Johnson
Membership	Scott Getchell
Nominations	Bill Shreve, Sr.
Public Education	Sharita Lyle
Public Relations	Winfield McKell
Short Course	Winfield McKell
Training	Kevin Quinn
TRE Committee Representative	Bill Shreve, Sr.
Tri-Conference	Mike Emery
Chesapeake Tri Association	Karl Ott
Wehsite Joh Bank	Anthony Rocco

Board Members & Committee Chairs

CSAWWA 2024-2025 Slate of Officers

Chair	Anna Kazasi
Chair Elect	Benjamin Thompson
Past Chair	Elford Jackson
Secretary-Treasurer	Annie Ding
Assistant Secretary-Treasurer	Abbie Smith
Director (2023–2026)	Andy Cooper
Trustee	Nicole Horvath
Trustee	Ethan Vidal
Trustee	James LeMire
Trustee	Robert Swann

CWEA 2024-2025 Slate of Officers

Vice-President	Jegnaw Essatu
Secretary	Kraig Moodie
Maryland Trustee	David Wildasin
Utility Member Representative	Yvette Judge

WWOA 2024-2025 Slate of Officers

President	Bill Shreve, Sr.
President Elect	Paul Hignutt
Past President	Bob Johns
Secretary	Kristy McAndrew
Treasurer	Mike Emery

2024 Conference Hotels

The Conference Committee has negotiated blocks of rooms at Ocean City hotels for the 2024 Tri-Association Conference.

*Rates do not include tax

Aloft (Co-Host Hotel)

4501 Coastal Hwy (45th Street)

Miles to Convention Center: .5

\$269 - \$289 (Std King/Double Queen/Double Queen Bayview)

Call 888-236-2427 and request the special

Tri-Association Conference rate. (Cutoff Date – **08/06/24**)

Sold Out

Grand Hotel (Co-Host Hotel)

2100 Baltimore Ave (21st Street)

Miles to Convention Center: 2.5

\$162-\$227 (City View/Partial Ocean View/Direct Ocean Front)

Call 410-289-6191 and request the special

Tri-Association Conference rate. (Cutoff Date – 08/06/24)

https://grandhoteloceancity.com

Ashore Resort & Beach Club (Formerly Fontainebleau)

10100 Coastal Hwv (101st Street)

Miles to Convention Center: 3.9

\$215 (Std Queen/Queen Ocean View) Plus, Resort Fee

Call 410-524-3535 and request the special **Chesapeake**

Tri- Association Conference rate. (Cutoff Date - 08/06/24)

https://ashoreresortoceancity.com

Best Western OC Hotel & Suites

5501 Coastal Hwy (56th Street)

Miles to Convention Center: 1

\$129-\$159 (Std 2 Oueen/2 Oueen Suite)

Call 443-664-4001 and request the special

Tri-Association Conference rate.

https://bestwesternocsuites.com/ocean-city-md-hotel-information/?_ ga=2.92907933.1227011345.1677953636-1184014008.1677953636

Best Western Plus

6007 Coastal Hwy (60th Street)

Miles to Convention Center: 1.4

\$109 (2 Oueen Standard)

Call 410-524-6100 and request the special

Tri-Association Conference rate.

www.bestwestern.com/en US/book/hotels-in-ocean-city/ best-western-plus-ocean-city/propertyCode.21062.html

Commander Hotel

1400 Atlantic Ave (14th Street)

Miles to Convention Center: 3

\$265 (Cabana Room Poolside)

Call 888-289-6166 and request the special

Tri-Association Conference rate. (Cutoff Date - 07/27/24)

www.commanderhotel.com

Courtyard by Marriott

Two 15th Street

Miles to Convention Center: 3

\$339 (2 Queen City View)

Call 410-289-5008 and request the special **Chesapeake Tri-Association**

Conference rate or register online. (Cutoff Date – **08/06/24**)

www.marriott.com/en-us/hotels/

sbyoc-courtyard-ocean-city-oceanfront/overview

DoubleTree by Hilton Oceanfront

3301 Atlantic Ave (33rd Street)

Miles to Convention Center: 1

\$379-\$429 (2 Queen Ocean View or 2 Queen Oceanfront)

Call 410-289-1234 and request the special Chesapeake Tri-Association

Conference rate or register online. (Cutoff Date - 08/06/24)

www.hilton.com/en/hotels/bwiocdt-doubletree-ocean-city-oceanfront

Dunes Suites

27th Street & Oceanfront

Miles to Convention Center: 2.4

\$244 (Oceanfront)

Call 410-289-0891 and request the special **Chesapeake Tri-Association**

Conference rate or register online. (Cutoff Date – **08/06/24**)

https://dunessuitesoc.com

Hilton Garden Inn (Formerly Dunes Manor)

2800 Baltimore Ave (28th Street)

Miles to Convention Center: 2.5

\$320 (Double Queen Oceanfront)

Call 1-800-233-1234 and request the special

Tri Association Conference 2024 rate. (Cutoff Date – **08/06/24**)

www.hilton.com/en/hotels/sbyftgi-hilton-garden-inn-ocean-city-oceanfront

Holiday Inn Oceanfront

6600 Coastal Hwy (67th Street)

Miles to Convention Center: 1.8

\$259 (Fastern Oceanfront)

Call 410-524-1600 and request the special Chesapeake Tri-Association

Conference rate or register online. (Cutoff Date – **08/06/24**)

www.ihg.com/holidayinn/hotels/us/en/ocean-city/ocemd/ hoteldetail?cm_mmc=BingMaps-_-HI-_-US-_-OCEMD

Princess Bayside

4801 Coastal Hwy (48th Street)

Miles to Convention Center: 0.6

\$114-\$164 (Standard Room/Deluxe Efficiency/Bayfront Efficiency)

Call 410-723-2900 and request the special

Chesapeake Tri Association 2024 rate. (Cutoff Date - 08/06/24)

https://princessbayside.com

Princess Royale

9110 Coastal Hwy (91st Street) Miles to Convention Center: 3.5

\$229-\$519 (Oceanview/Pool view: Oceanfront: Condo: Oceanfront Deluxe)

Call 1-800-476-9253 or 410-524-7777 and request the special

Chesapeake Tri Association rate. (Cutoff Date – 08/06/24)

https://princessrovale.com

Quality Inn Oceanfront

5400 Coastal Hwy (54th Street)

Miles to Convention Center: 1.3

\$174-\$209 (2 Queen Atrium or 2 Queen Oceanfront)

Call 410-524-7200 and request the special **Chesapeake Tri-Association**

Conference rate or register online. (Cutoff Date - 08/06/24)

www.gioceanfront.com

Residence Inn by Marriott

300 Seabay Lane (61st Street)

Miles to Convention Center: 1.6

\$259 (Bayview Queen or King Studio)

Please use the online registration link only. (Cutoff Date - 08/06/24)

www.marriott.com/en-us/hotels/sbyro-residence-inn-ocean-city/overview



Thank you RCS for 9 great years!

RCS, our Registrar, has been a big part of the success of this conference over several years.

Registration Information

Early Bird Registration Ends **August 6, 2024** at 11:59 PM, after which time Standard Rates apply.

Standard Rates are \$75.00 more than Early Bird rates shown in the table.

EARLY BIRD REGISTRATION RATES						
Registration Options	Member	Certified Operator	Non- Member	Full-Time Student	Retiree	
Full Conference: Complete Package	\$350	\$290	\$440	N/A	N/A	
Full Conference: No Ticketed Events	\$260	\$200	\$350	\$75	\$125	
One-Day Registration: Wednesday	\$220	\$150	\$320	\$30	N/A	
One-Day Registration: Thursday	\$220	\$150	\$320	\$30	N/A	
One-Day Registration: Friday	\$120	\$100	\$210	\$30	N/A	

To get the Member rate, you or your utility must be a current member of one of the three associations (CWEA, CSAWWA, or WWOA).

Your membership in AWWA or WEF must be with the Chesapeake affiliate/section

To get the Retiree rate, you must not be working in the industry at this time.

All attendees must register for the 2024 Tri-Association Conference online. You can access registration through the conference website:

www.ChesapeakeTriCon.org.

Early Bird Registration (\$75 savings) Ends August 6, 2024, at 11:59 PM

Standard Conference Registration pricing begins at the close of Early Bird Registration. Full payment is required at the time of registration. All attendees receive free breakfasts, breaks, and lunch with exhibitors. and the Shooters Happy Hour.

Full Conference, Complete Package

Includes access to Technical Sessions, Exhibit Hall, non-ticketed Social Events, one ticket to Wednesday Night Seacrets Event, and one ticket to an Association Luncheon/Meeting of your choice (CSAWWA, CWEA, or WWOA).

Full Conference, No Ticketed Events

Includes access to Technical Sessions, Exhibit Hall, and non-ticketed Social Events.

Operator Competition Teams

Team members will receive a "Full Conference No Ticketed Events" registration for the reduced rate of \$100.00 per person. Register through the system online and be sure to select "Operator Competition" when you start registration.

One Day Registration

Includes access to Technical Sessions, Exhibit Hall (Wednesday or Thursday only), and non-ticketed Social Events for that day.

Exhibitor Attendee Registrations

After June 1, all exhibiting firms will receive an email with full instructions on registering attendees. Each booth comes with two free badges, and the option to purchase up to two additional Exhibitor Badges at \$150 each. Exhibitor badges do NOT include tickets to conference special events, such as the 5K Fun Run, Seacrets Fun Night, and Association Business Luncheons

Additional Selections

Golf at the Ocean City Golf Club, Tuesday, August 27, 2024

Ocean City Golf Club, Berlin, MD. Sign-In 11:00 AM to 12:00 PM, Shotgun Start at 12:00 PM. Format: Captain's Choice. Space may be limited, be sure to register early! **Cost: \$100 per individual and \$400 for a foursome.**

Pre-Conference Workshops

Three workshops are planned for Tuesday, August 27 from 1:00 PM to 5:00 PM: Water Infrastructure Funding presented by U.S. EPA; Demystifying Artificial Intelligence and Machine Learning – Tools for the Future presented by CWEA and CSAWWA Asset Management Committees; and Cybersecurity presented by Kevin Morley, Manager, Federal Relations, AWWA.

The workshops have been submitted for PE and operator CEUs in Maryland and Delaware. Early Bird Registration Cost: \$45/ Standard Registration Cost: \$50

Half-Day Operator Classes: New this year!

Four half-day operator classes will be offered this year:

- Wednesday, August 28: Basic Motor and Pump Maintenance (Non-Process) – 8:00 AM to 12:00 pm. Coagulation, Flocculation, Sedimentation & Filtration (Process) – 1:30 PM to 5:00 PM.
- Thursday, August 29: Advanced Wastewater Class (Process) 8:30 AM to 12:30 PM. Process Math for Operators (Process) – 2:00 PM to 5:30 PM.

Early Bird Registration Cost: \$25 per class/Standard Registration Cost: \$30 per class. You must be registered for the conference.

5K Fun-Run/Walk, Wednesday, August 28, 2024

The Fun-Run/Walk will be held on Wednesday at 7:00 AM on the Boardwalk at the Grand Hotel (21st Street). Registration includes t-shirt, water, snack, and prizes. **Early Bird Registration Cost: \$35/Standard Registration Cost: \$45**

Women in Water Networking Event, Wednesday, August 28, 2024

All are welcome to join and participate in engaging conversations and networking. Please join us in the Bayfront Ballroom on the second floor from 5:00 PM to 6:30 PM to share stories of volunteering, mentoring, and navigating meaningful ways of lending a hand. **No cost but you must register.**

Fun Night at Seacrets, Wednesday, August 28, 2024

Note: Seacrets tickets must be purchased by Tuesday, August 27, 2024. NO INDIVIDUAL TICKETS WILL BE SOLD AT THE CONFERENCE ON WEDNESDAY OR AT THE DOOR. Must be 21 years or older to enter. Music by The Way Outs. Cost: \$75 per person

Business Luncheons/Meetings, Thursday, August 29, 2024

All three organizations (CSAWWA, CWEA, and WWOA) will hold their annual business luncheons/meetings concurrently on Thursday. Tickets are required for attendance at the business lunch, and exhibitors receive two tickets to their choice of association luncheon with their booth. Cost: \$45 per ticket.

Young Professionals Happy Hour, Thursday, August 29, 2024

All are welcome to join the Young Professionals on Thursday for a fun night of networking! We will be enjoying happy hour and appetizers at Alley Oops Midtown Bowling Alley on 56th Street from 6:30 to 8:30 PM. Space is limited to 70 people, first come, first serve. Registration includes one happy hour drink and appetizers. Cost: \$20 per person

Sunrise Yoga on the Beach, Friday, August 30, 2024: New this year!

Start your day off with Sunrise Yoga to be held on Friday at 6:15 AM to 7:30 AM on the beach at the Grand Hotel (21st Street).

Early Bird Registration Cost: \$30/Standard Registration Cost: \$40

Guest Badges

All guests who wish to attend the non-ticketed Social Events, including breakfasts, breaks, receptions and other social events, will need to purchase a Guest Badge. Cost: \$135 per quest. Guest tickets are intended for those persons accompanying an attendee for non-business-related purposes. All attendees wishing to conduct business must register for the conference.

Free Rides on Ocean City Buses!

All conference attendees, exhibitors and registered guests can ride the Ocean City buses free of charge by showing their 2024 Tri-Association Conference Name Badge between Tuesday August 27, 2024, at 2 PM and Friday August 30, 2024, at Noon.

The Fine Print

Payment Methods

Registration can only be purchased using a credit card – no cash or checks will be accepted for registration either in advance or at the conference. Upon completion of your registration, you will receive confirmation that will show what was purchased, the type of payment used, and the amount paid.

Cancellations

All cancellation requests must be made in writing and received by the Registrar no later than August 6, 2024, at 11:59 PM (see *Contact the Registrar* for email address). Refunds will be issued minus a 20% administrative fee for cancellations received before August 6, 2024, at 11:59 PM. No refunds will be issued for requests received after August 6, 2024, at 11:59 PM.

On-Site Registration

On-site registration will be available at the convention center at the Registration Desk. Note: Lines may be long for on-site registration so allow plenty of time to register before the sessions. Advance online registration is encouraged: www.chesapeaketricon.org.

Registration Information

Registered attendees can pick up their conference badge and tickets at the Registration Desk. Technical Session Attendance Forms, Conference Brochure, and any updates to conference information will be available at the Information Desk.

Contact the Registrar

If you have questions about the on-line registration process or systems, please contact RCS at *tricon2024@rcsreg.com* or (805) 654-0171.

For all other general conference information, please contact us at info@ChesapeakeTricon.org — we will respond within one business day.

CWEA, WWOA, AND CSAWWA thank you for your support!

Conference Notes



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