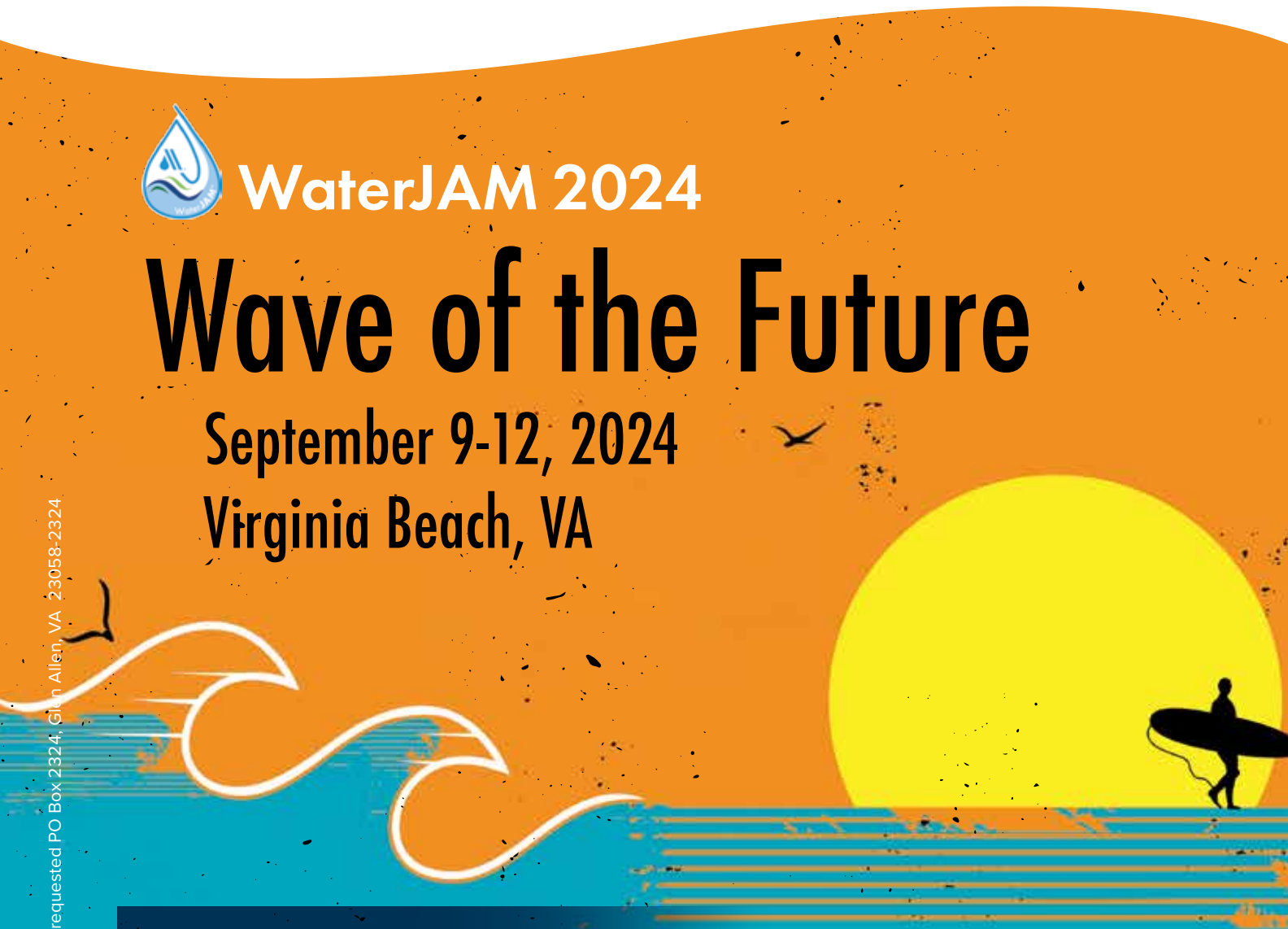
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WaterJAM 2024

Wave of the Future

September 9-12, 2024
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- VWEA News & Updates
- VWEA Committee Updates

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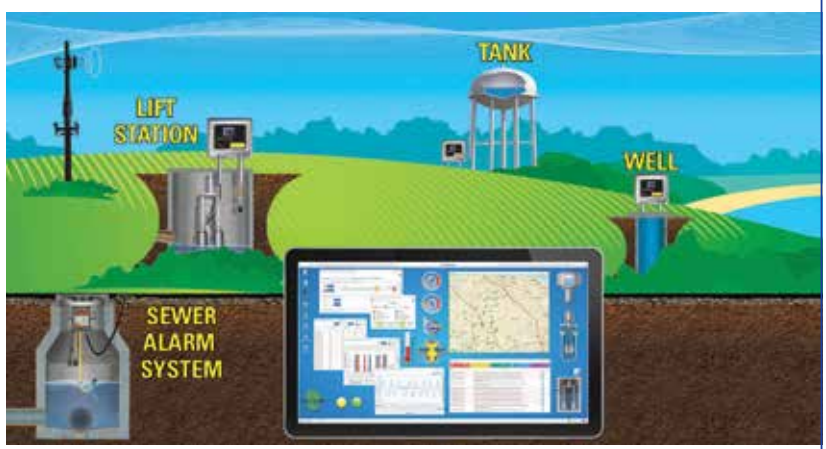


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FEATURES



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WaterJAM 2024
Get ready for WaterJAM, the premier event for Virginia water professionals.

WaterJAM 2024: *Wave of the Future* **29**
The theme *Wave of the Future* for WaterJAM 2024 is incredibly exciting and relevant. Focusing on new technologies, cyber-security, and advancements in AI and machine learning reflects the rapidly evolving landscape of the water sector.





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Signing off on My Final President's Message with Appreciation and Awe



Sarah Lothman,
VWEA President



Wow! How time flies. We are already on the heels of another WaterJAM. In a few short months, we will gather in Virginia Beach to reconnect, learn, and celebrate together. I look forward to being with all of you. The effort that goes into planning WaterJAM is immense. I commend the volunteers who have shown a tireless commitment to making WaterJAM a huge success. It only seems to get better and better. If you're able to join us this year, please don't forget that early bird registration ends on August 9. You can learn more about the exciting happenings at WaterJAM by visiting *WaterJAM.org*.

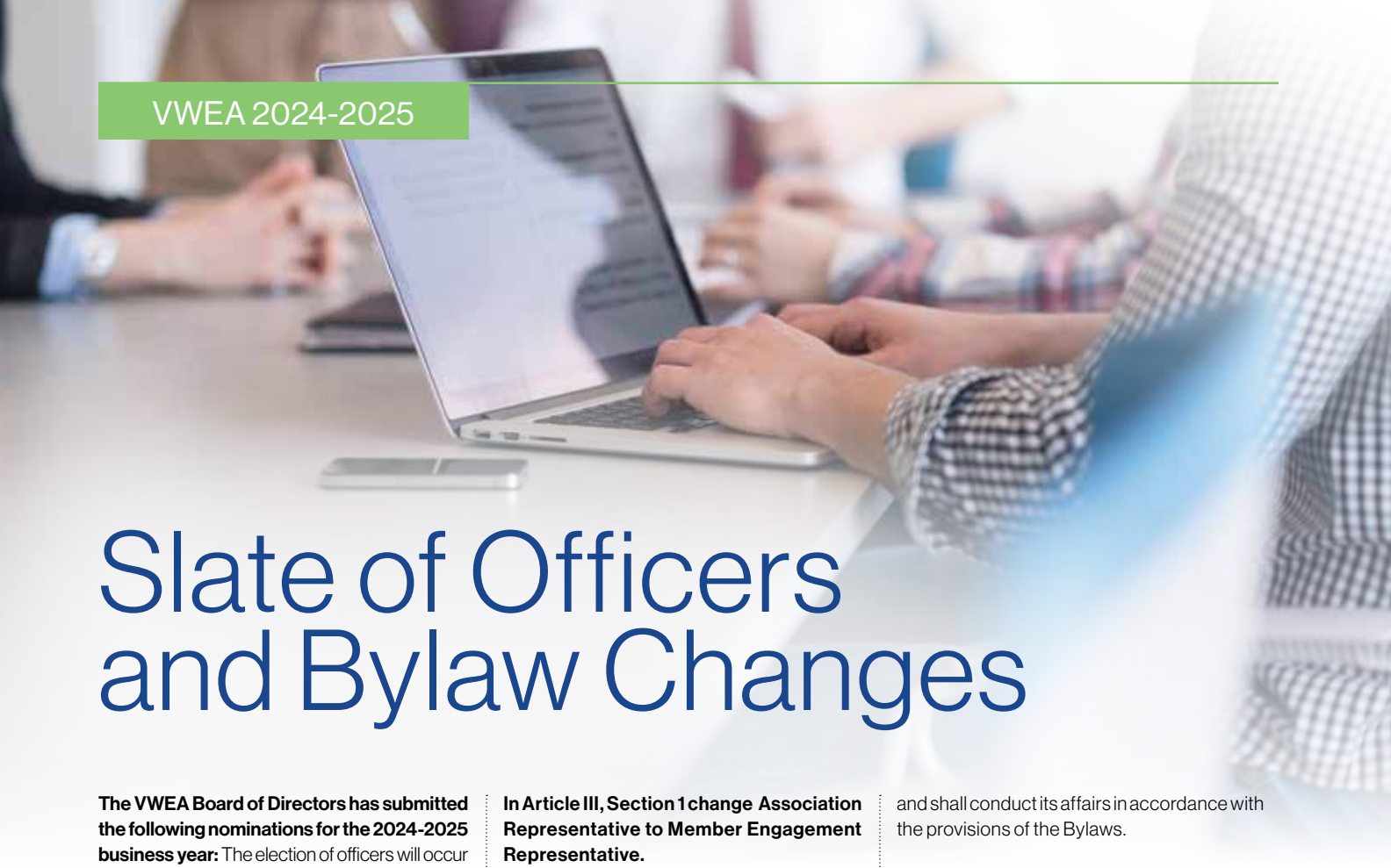
Outside of WaterJAM planning, there has been a flurry of events around the state. Lynchburg Water Resources graciously hosted another Operations & Maintenance Workshop, while the Education Committee held its annual Conference in Richmond, which focused on enhanced nutrient removal. The Lab Practices Committee is also preparing to host its annual conference in Harrisonburg in July.

With warm weather comes a desire to get outside. Our social and networking events provide an opportunity wherever you may be in the state. Whether you enjoy golf, baseball, hiking, or a good, old-fashioned happy hour, there is something for everyone. I encourage you to check the VWEA calendar for the latest updates!

As I sign off for the final time, I want to share my heartfelt appreciation to you all for entrusting me with the responsibility to serve as your President for the past year. I am grateful for the experience and in awe of the talent, enthusiasm, and commitment of our members.

I look forward to seeing you at WaterJAM!

"As I sign off for the final time, I want to share my heartfelt appreciation to you all for entrusting me with the responsibility to serve as your President for the past year. I am grateful for the experience and in awe of the talent, enthusiasm, and commitment of our members."



Slate of Officers and Bylaw Changes

The VWEA Board of Directors has submitted the following nominations for the 2024-2025 business year: The election of officers will occur on Wednesday, September 11 from 3:00 p.m. at the Virginia Beach Convention Center.

- President-Elect – Bryce Carter, Combs and Associates
- Vice President – Ryan Radspinner, HRSD
- Young Professional Representative – Hunter Ritchie, Ritchie Environmental
- Member Engagement Representative – Lyndsey Davis, Brown and Caldwell
- PWO Representative – Lacy Burnette, Western VA Water Authority

In accordance with Article III Section 6 of the VWEA Bylaws, the following officers will advance to the successive positions:

- President – Ryan Hendrix, Pepper's Ferry Regional Wastewater Authority
- Past President – Sarah Lothman, Burns and McDonnell

The remaining incumbents will continue to fulfill their term:

- Secretary/Treasurer – Eddie Abisaab, HRSD (two years remaining)
- WEF Delegate – Felicia Glapion, AlexRenew (two years remaining)
- WEF Delegate – Christopher Tabor, Hazen and Sawyer (one year remaining)

The following Bylaw changes have been submitted for approval at the business meeting by the Board of Directors:

In Article III, Section 1 change Association Representative to Member Engagement Representative.

Section 1. All officers shall be members of the Association who are not specifically prohibited herein from holding office. The officers of the Association shall be a President, President-Elect, Vice President, two Directors to serve as Delegates in House of Delegates of the Federation, a PWO Representative, a Young Professional Board Representative, a Secretary/Treasurer and a Member Engagement Representative. These officers together with the immediate Past President shall constitute the Board of Directors, which shall be the governing body of the Association, and shall conduct its affairs in accordance with the provisions of the Bylaws.

In Article III, Section 1 add Outreach Representative.

Section 1. All officers shall be members of the Association who are not specifically prohibited herein from holding office. The officers of the Association shall be a President, President-Elect, Vice President, two Directors to serve as Delegates in House of Delegates of the Federation, a PWO Representative, a Young Professional Board Representative, a Secretary/Treasurer, Member Engagement Representative, and Outreach Representative. These officers together with the immediate Past President shall constitute the Board of Directors, which shall be the governing body of the Association, and shall conduct its affairs in accordance with the provisions of the Bylaws.

In Article III, Section 6 add Outreach Representative and change Association Representative to Member Engagement Representative.

Section 6: The term of office of the Past President, President, President-Elect, and Vice President shall be for one year. The term of the office of the PWO Representative, Secretary/Treasurer, Member Engagement Representative, and Outreach Representative shall be for three years, as determined by the annual meetings of the Association. The President-Elect shall automatically advance to President and the President to Immediate Past President. The term of the office of the Young Professional Board Representative shall be for one year and may serve for a maximum of three years.

In Article VIII, Duties of Officers, move Section 9 to Section 10 change Section 9 to read:

Section 9: The Outreach Representative shall advise the Board on topics related to outreach and engagement related to the water, wastewater and stormwater industry.

Upon the approval of the addition of the Outreach Representative to the Board of Directors, the Board will vote to appoint a member for an initial two-year term.

- Outreach Rep – Shelbie Dashiel, Hazen and Sawyer

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The Communications Committee is responsible for the transfer of information within VWEA and to its members members. We solicit technical articles for *The Conduit*, which is the main communication tool for the VWEA membership at large.

Do you have an article you would like published in the next edition of *The Conduit*?

Contact The Conduit's editor, Carmen Bere at *cbere@fairfaxwater.org*.



To submit articles, visit:
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Oyster Garden Grows with SOS Program

VWEA's Eastern Virginia Regional Activities Committee (EVRAC) strives to offer networking, education, and community service opportunities in the Hampton Roads region. To commemorate Earth Day 2024, the oyster gardening event at the Chesapeake Bay Foundation's (CBF) Brock Environmental Center is an annual favorite. This year, we owe a big "Thank You" to the volunteers that handled 150 bushels of recycled oyster shells.

What is SOS? "Save Oyster Shells" is a program that gathers discarded oyster shells from local seafood restaurants (otherwise destined for landfills), which serve as the substrates for oyster spat gardening, to create future habitats for new oyster generations.

YOU CAN VOLUNTEER, TOO!

To volunteer or learn more about becoming a Virginia oyster gardener, check out these links: *https://www.lynnhavenrivernow.org/save-oyster-shell-s-o-s-program/* *https://www.cbf.org/how-we-save-the-bay/programs-initiatives/virginia/oyster-restoration/save-oyster-shell.html*

WHAT'S NEXT?

Following WaterJAM in September, EVRAC is planning the annual family fall picnic, a holiday-themed happy hour, local food drive, and more!

Interested in volunteering? Reach out to Lyndsey Davis at *ldavis1@brwncald.com.* We also welcome opportunities to co-host events with other committees.

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Earth Day 2024 is in the books, here at a local city park!



All ages pitched in during the Earth Day clean-up!



The group stacked 150 bushels of recycled oyster shells, which will be used to grow 900,000 spat-on-shell oysters.



Thanks to all the volunteers!

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NoVa YPs Celebrate a **Successful Start to 2024**

The NoVa Young Professionals Committee has had an exciting first half of 2024! The Committee had its annual meeting in January to discuss and plan events for the year. In addition to happy hours planned for the summer, the YPs have hosted a lunch & learn on "Developing Effective Communication Strategies for Lead and Copper," participated in a NoVa-wide watershed cleanup for Earth Day, and partnered with the Stormwater Committee to learn about Fairfax County's green infrastructure program, which included a morning networking breakfast and a tour of their GI facilities. The Committee gained 13 members during these events. We're excited about the growth and opportunities to get to know our industry peers.

There's more for YPs later this year, with plans for a hike, more lunch & learns, and a holiday social event.





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2024 Education Seminar Focuses on ENR

Current Strategies and Future Outlook

More than 130 people attended the 2024 Education Seminar on May 9 to hear speakers from across the Commonwealth and beyond present and lead discussions focused on enhanced nutrient removal (ENR).

The theme of this year's event, which was hosted by the VWEA Education Committee and held at the Westin Hotel in Richmond, was "A Decade of ENR: Current Strategies and Future Outlook." The program kicked off with a morning panel of nationally recognized experts sharing their historical perspective on ENR, followed by another panel featuring representatives from wastewater utilities across Virginia offering their perspective on ENR and its impact on wastewater treatment and resource recovery operations.

The remainder of the program featured a range of topics, including:

- Technological advancements, process optimization, and digital solutions for improving process controls
- Environmental and ecological impacts of ENR
- Nutrient trading program and regulatory outlook

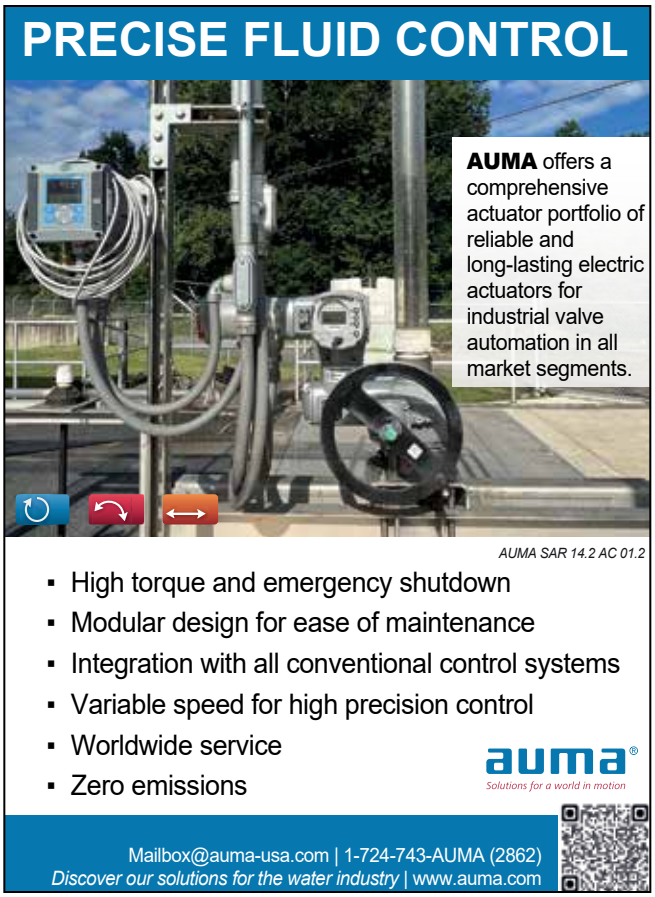
The event kicked off on the evening before the seminar with a social and networking event at the Answer Brewpub just a few minutes from the Westin Hotel.

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Experts Tackle Pressing Issues during O&M Education Event

In April, the O&M Committee hosted a training at the Prince William County Service Authority's H.L. Mooney Advanced Water Reclamation Facility (AWRF). More than 40 people attended the single-day event to listen to experts present on topics like maintenance of aging infrastructure, hydraulic evaluations, asset management, and workforce development. After the presentations, plant staff led a tour of the AWRF.

Stay tuned for more information and we hope to see everyone at the upcoming events! O&M Committee information is available here: Operations – Virginia Water Environment Association. Additional information about the Operations Challenge event is available at *vwea.org*.







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Book Discussion Helps Participants Gain Perspective on 'Crucial Conversations'

By Jonette Meade Barley, Management Analyst Associate, City of Richmond DPU

In February and March, The Leadership Academy held two virtual trainings on the book *Crucial Conversations – Tools for Talking When Stakes Are High*, Third Edition.

On September 9, 2023, during our Leadership Academy kickoff meeting at WaterJAM 2023, we each had to pick a card from a table and explain to the group why we chose it. I chose a card with a person standing and facing the sun, while making a heart with their hands. Fast forward to our very first virtual meeting on February 15, 2024, and Part 1 of our book discussion, Chelsea Bajek (Henrico Water) facilitated the event, which coincidentally focused on Chapter 4, "Start with Heart". The section highlights the importance of self-reflection and personal change.

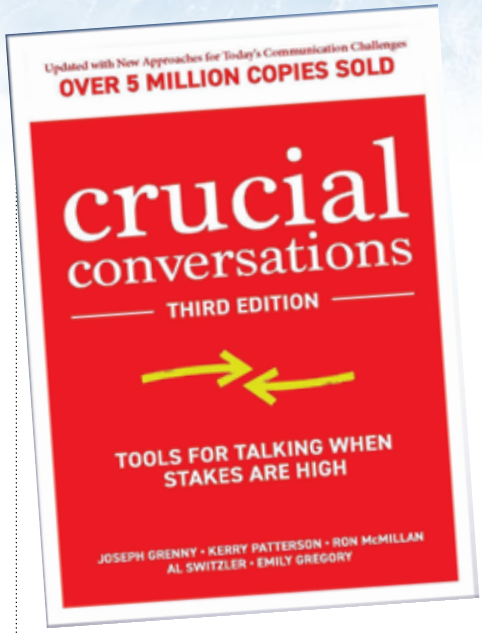
As human beings, it's natural for us to want to solve the problems of our colleagues, friends, and family members. We often take on the burdens of those we care about while struggling internally to fix our own issues. "Start with Heart – How to Stay Focused on What You Really Want", which also happens to be my favorite chapter of this book, really touched my heart! There were great nuggets presented during the virtual training and discussion. I left the training session, with the desire to start immediately making changes in my life and looking at situations from a totally different lens.

This chapter has taught me a few keys ways to make my shoulders lighter – "Work on Me First – Everyone Else Second" by asking myself these three very important questions:

- What do I really want for myself?
- What do I really want for others?
- What do I really want for the relationship?

Asking these three questions before acting like Iyanna Vanzant in *Fix My Life* when others start approaching you with their issues really helps to manage the stress these situations can create.

Part 2 and Chapter 7 of *Crucial Conversations* is titled "Make It Safe – How to Make It Safe to talk About Almost Anything" is another one of my favorite chapters and opens with Proverbs 25:11 "A word fitly spoken is like apples of gold in baskets of silver." The book discussion and virtual session, held on March 28, addressed how, in any relationship where the conversation is heated, we should all Step Out. Make It Safe. Then Step Back In. Thomas Jefferson once said: "When angry count to 10 before you speak. If very angry, count to 100."



This book and virtual session were awesome. The enabled our team to see how our words and actions may be perceived in a negative or condescending way when our intentions were quite the opposite. Being misunderstood in this way can lead us to shut down and not share our feelings or provide feedback when asked for fear of being misunderstood. This chapter along with the conversations held during our breakout sessions were very informative and gave each of us a different view on how to approach conversations with others by first sharing our good intent. We can start our conversations by saying something like "I really want this to work" as an example.

In closing, I would say that regardless of where you are in life, this book will have a huge impact on your team, coworkers, family members, and friends. It will make a world of difference in their lives and yours. My only suggestion for first timers would be to start at Chapter 4, then read Chapter 7, and then start at Chapter 1.

You'll thank me later!

The Leadership Academy training and events are planned by the Leadership Academy Committee, a group of approximately 15 committee members, many of whom are recent or former program graduates.

For more information on the Leadership Academy Committee or its program, contact Chelsea Bajek, Committee Chair (*baj001@henrico.us*).



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DECIPHERING TEAM DYNAMICS…

Leadership Academy Takes on the **Five Dysfunctions of a Team**

By Rachel Schwaab, Ramboll



A team-building exercise during the Leadership Academy's workshop on the Five Dysfunctions of a team.

On April 17, the Leadership Academy participated in a workshop on the Five Dysfunctions of a team. Attendees learned about Patrick Lencioni's model, discussed common pitfalls for teams pursuing a goal, and identified strategies for overcoming challenges.

Lencioni's model is comprised of the following key dysfunctions:

1. **Absence of Trust:** Without trust, teams struggle to engage in open, honest dialogue, and fail to leverage the full strength of its members.
2. **Fear of Conflict:** Productive conflict is essential for decision-making and innovation. When team members shy away from voicing their opinions, unresolved issues grow, impeding progress.
3. **Lack of Commitment:** When team members do not buy into decisions, progress can be stifled. Genuine commitment requires clarity and accountability from all members.
4. **Avoidance of Accountability:** When individuals do not take responsibility for their actions, performance suffers. Establishing clear expectations and holding each other accountable is vital to garnering results.
5. **Inattention to Results:** Ultimately, the success of any team hinges on its ability to prioritize collective goals over individual goals. Focusing on personal achievements can derail progress and erode team morale.

"From memory games to the marshmallow and rock inspection challenges, the workshop fostered a deeper understanding of how trust, productive conflict, commitment, accountability, and results prioritization are key to team success."

Through a blend of brainstorming sessions, discussions, and interactive activities, participants gained first-hand insights into how these dysfunctions manifest in the daily lives of water industry professionals. From memory games to the marshmallow and rock inspection challenges, the workshop fostered a deeper understanding of how trust, productive conflict, commitment, accountability, and results prioritization are key to team success.

With greater awareness of these challenges and equipped with actionable tools, participants left the workshop ready to tackle team challenges and guide their teams toward greater cohesion and effectiveness.

Contact Chelsea Bajek, Committee Chair (*baj001@henrico.us*), for information on the Leadership Academy Committee, or visit *www.vaawwa.org/page/leadership-academy.*

Water Reuse and the SWIFT Wells

By Trey Harksen

This year, when thinking about Earth Day and how we can be more protective of our natural environment, my mind immediately migrates to water reuse. By reusing our water, we can reduce our impacts on the natural world. When you think of water reuse, Virginia may not be the first state you think of. More often, we see news articles of the drier west coast states engaging in reuse to supplement their more limited water supply and curb the effect of droughts. But Virginia does engage in reuse! Throughout the Commonwealth you can find examples of water reuse - from simple to complex. Even without the glamour that comes with direct potable reuse, there are many opportunities for water users to engage in reuse.

First, what even is water reuse? Water reuse encompasses much more than just taking sewage and treating it until it is drinkable. As defined by the Environmental Protection Agency, water reuse "reclaims water from a variety of sources then treats and reuses it for beneficial purposes such as agriculture and irrigation, potable water supplies, groundwater replenishment, industrial processes, and environmental restoration." What this means is that water reuse is broad, and includes taking any water source, such as wastewater or rainwater, and treating it in a way to make it usable for any number of purposes. Some specific examples of reuse include using treated wastewater for irrigation water, such as for a golf course, or as process water for industrial users or data centers. One of the great benefits of some types of reuse is that it may not require treating water to drinking water standards if the water will be used for non-potable services.

Over the past year, the Sustainable Utilities Committee has hosted several webinars focused on successful water reuse stories in Virginia, and the process and equipment used to achieve reuse. In the most recent webinar, Dan Holloway with HRSD focused on one of the largest-scale reuse projects in Virginia: the Sustainable Water Initiative for Tomorrow (SWIFT) and the installation of the wells that are used in this program.

SWIFT is a program with several goals: to reduce the impacts of relative sea level rise, to reduce nutrient discharge into the Chesapeake Bay, and to create a sustainable groundwater supply for our future. To put it simply, SWIFT takes treated wastewater and puts it through advanced water treatment to meet Safe Drinking Water Act standards then uses it to recharge the Potomac Aquifer. This is HRSD's solution to a very long-term problem – the lowering of the potentiometric surface of the water in the aquifer. The SWIFT program has many facets, one of which is the wells. Treated water is reintroduced to the aquifer through a collection of large wells located at two of HRSD's large treatment plants in Hampton Roads. These are not your normal groundwater withdrawal wells – these massive wells can both withdraw water from the aquifer, and effectively operate in reverse, to supply reused water back to the aquifer.

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The construction of these wells is an impressive process in and of itself. It begins with a hydrogeological analysis of the well site, involving drilling deep into the ground and determining the classifications of the many layers of soil present. Well design is finalized based on these results, and the drilling of the well can begin. First the conductor casing hole is drilled, and large pipe is installed in the upper portion of the well so that the walls of the well do not collapse inwardly. In the case of the James River SWIFT wells, the conductor casing is 60" in diameter and 40 ft. in length. Next, another, smaller hole is drilled for the upper casing, which seals the well off from the overlying aquifers. The drilling for this hole begins with a relatively small bit, with the borehole being reamed out by increasingly larger bits until the final 30" diameter of the casing is achieved. Once drilling is complete, sections of pipe are installed from the bottom up, grouted into place, and tested for leaks. Finally, a hole is drilled into the Potomac aquifer all the way to the target depth following the same process, then the alternating casing pipe well screen is installed – all 1,250 ft. of it – along with a gravel filter pack around the well. The well is then cleaned, tested, and cleared for service.

With the wells now in service, they can provide freshly treated water to the Potomac Aquifer. HRSD has seen positive results in the time since the completion of the SWIFT Research Center (SRC), a 1 million GPD demonstration facility. With regular recharging, both an increase in the water level proximal to the SRC and positive changes in aquifer compaction (or negative compaction) have been observed and related to SRC operations. While we don't see a particularly dramatic increase in land surface rebound overnight, the slow incremental changes observed are encouraging, and prove that this is a great use for reused water.





HRSD's SWIFT program is a great example of water reuse right here in here in Virginia. As time goes on, programs like this will become increasingly commonplace as water supply issues become more prevalent. Water may be plentiful now, but it is not infinite. By continuing to engage in projects like the SWIFT wells, we can protect our natural environment against the effects of an increasing population and increasing water demand. I encourage you to spend some time today looking into water reuse and consider the many benefits it provides to us and to the environment!



PRESENTED BY THE VWEA CENTRAL VIRGINIA REGION ACTIVITIES COMMITTEE

VWEA
Virginia Water Environment Association

11th Annual Scorcher **Golf Tournament**

AUGUST 13, 2024 | NEW KENT, VIRGINIA

The Club at Viniterra

WHAT
The 11th Annual Scorcher Golf Tournament

WHEN
Tuesday, August 13, 2024
Range: 7:30 am
Registration Begins: 8:30 am
Shotgun Start: 9:30 am

FOOD
Lunch and two drink tickets included

COST
$500 per team or $125 per player
(includes greens fee, cart, range balls, lunch and drink tickets)

SPONSORSHIPS
$125 per hole

WHERE
Vinterra Golf Course
8647 Angel's Share Dr.
New Kent, VA 23124

REGISTRATION
Registration deadline is August 6, 2024
https://www.vwea.org/event/CVRACScorcher2024

CONTACT
Email questions to Zach Swartzbaugh at
zswartzbaugh@brwncald.com



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HOTEL RESERVATIONS

GROUP NAME:
Tri-State Seminar 2024

ROOM RATE: $88/night
(not including taxes & fees)

DATES: August 4 - 8, 2024

GROUP CODE: TRI2024
(first 3 are letters, last 4 are numbers)

CUT-OFF DATE: 07/19/2024

REGISTRATION RATES (Per Person)

- $99 Early Bird
- $199 After July 19, 2024
- $249 After August 4, 2024

WaterJAM 2024

Wave of the Future

September 9-12, 2024
Virginia Beach, VA



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IT'S THAT TIME AGAIN! CONNECT. LEARN. HAVE FUN.



On behalf of the Virginia Section of the American Water Works Association and the Virginia Water Environment Association, we invite you to join us for WaterJAM 2024: *Wave of the Future* from September 9-12 in Virginia Beach! We are excited to offer our Virginia water family the opportunity to connect, learn, and have fun. We are looking forward to building on the success of WaterJAM 2023, and are excited to see your smiling faces in Virginia Beach this September.

The theme "Wave of the Future" for WaterJAM 2024 is incredibly exciting and relevant. Focusing on new technologies, cyber-security, and advancements in AI and machine learning reflects the rapidly evolving landscape of the water sector. Attendees can expect to gain valuable insights into cutting-edge developments and innovative solutions that can help propel their organizations forward. Additionally, the promise of learning from others' experiences and networking opportunities ensures a well-rounded and enriching experience for all participants. And of course, the emphasis on having fun along the way adds an extra element of enjoyment to our conference making it a dynamic and insightful gathering for water professionals.

The WaterJAM 2024 Committee is working tirelessly to ensure that we host the premier state conference for water, wastewater, and stormwater professionals. WaterJAM 2024 will provide attendees with numerous technical growth opportunities, including continuing education credits, as well as a variety of networking opportunities, such as the annual Clay Shoot and Golf Tournament and the return of the popular Women Impacting Water Breakfast. This year's Young Professional events include a YP Round Table session followed by a Bingo Networking reception. You can also expect outstanding presentations, workshops, and fun social events which will provide many opportunities for networking with friends and colleagues.

Because WaterJAM is the premier event for Virginia water professionals, hotel rooms will disappear quickly, so be sure to register and book early (while saving money in the process!) Registration opened on May 17, so be sure to check the conference website for registration information.

We are tremendously excited about this year's WaterJAM and on behalf of your hard-working WaterJAM Planning Committee, we look forward to seeing you in Virginia Beach in September!



Christopher Johnson
Conference Co-Chair



Jeremy Harrison
Conference Co-Chair

P.S.: Don't forget to follow us on Facebook (*facebook.com/VirginiaWaterJAM*).

CONFERENCE EVENTS OVERVIEW

**Schedule subject to change. See website for updated information and more details.*

DATE/TIME	EVENT
SUNDAY, SEPTEMBER 8	
1:00 - 4:00 p.m.	Water Taste Test/Wastewater Education
3:00 - 4:30 p.m.	VWEA Board Meeting
3:00 - 4:30 pm	VA AWWA Board Meeting
MONDAY, SEPTEMBER 9	
7:00 a.m. - 5:00 p.m.	Registration Desk Open
7:30 a.m. - 3:00 p.m.	WaterJAM Golf Outing & Cookout
8:30 a.m. - 12 noon	YP-Sponsored Service Project
8:45 a.m. - 2:00 p.m.	WaterJAM Clay Shoot
8:30 a.m. - 12 noon	Rate Setting 101
8:30 a.m. - 12 noon	Courageous Conversations: How to Talk about Belonging and Inclusion at Work
8:30 a.m. - 4:30 p.m.	Laboratory Practices Committee Workshop: Wave of the Future
8:30 a.m. - 4:30 p.m.	A Decade of ENR: Current Strategies and Future Outlook
8:30 a.m. - 4:30 p.m.	Fats, Oils, and Grease Workshop
8:30 a.m. - 4:30 p.m.	Virginia Utility CIP Forum
1:00 - 4:30 p.m.	Planning and Implementation of an Effective Bioenergy Program – A review of the challenges, opportunities, and effective strategies
1:00 - 4:30 p.m.	Bridging the Gap Between LCRR and LCRI
1:00 - 4:30 p.m.	Cybersecurity Overview and Cybersecurity Incident Response Plan Workshop
3:00 - 6:00 p.m.	Exhibitor Set-Up
7:00 - 10:00 p.m.	Meet & Greet Reception
TUESDAY, SEPTEMBER 10	
6:30 - 8:00 a.m.	Water For People 5K Fun Run/Walk
7:00 a.m. - 5:00 p.m.	Registration Desk Open
7:00 a.m. - 5:00 p.m.	Speaker Ready Room
7:30 - 9:00 a.m.	Keynote Session Continental Breakfast
7:30 - 9:00 a.m.	Women Impacting Water Breakfast
7:30 - 9:00 a.m.	First Time Attendee Breakfast
7:30 - 11:00 a.m.	Exhibitor Set-Up
8:00 a.m. - 5:00 p.m.	Mother's Room
8:00 a.m. - 6:00 p.m.	Traveling Bookstore
9:00 - 11:00 a.m.	Keynote Session
11:00 - 11:30 a.m.	VA AWWA 1st Business Meeting
11:00 a.m. - 12 noon	Grand Opening of Exhibits
11:00 a.m. - 6:00 p.m.	Scavenger Hunt
11:00 a.m. - 6:30 p.m.	Exhibit Hall Open
11:00 a.m. - 6:30 p.m.	Cornhole, Ring Toss & Other YP Activities
12 noon - 1:30 p.m.	VWEA Membership Appreciation & Awards Luncheon
12 noon - 1:30 p.m.	Lunch for Those Not Attending VWEA Luncheon
12 noon - 6:00 p.m.	Committee Meetings
1:00 - 1:30 p.m.	Moderator and Assistant Moderator Orientation
1:30 - 5:00 p.m.	Concurrent Technical Sessions 1-10
1:30 - 5:00 p.m.	Operator Licensure Preparation Class
2:00 - 3:00 p.m.	Mobile Session I
2:00 - 6:00 p.m.	Water Reach Silent Auction (bidding)
3:00 - 4:00 p.m.	Break
4:00 - 5:00 p.m.	Mobile Session 2
5:00 - 6:30 p.m.	Networking Reception Featuring the Water Reach Silent Auction
7:00 p.m. onward	Free Night

DATE/TIME	EVENT
WEDNESDAY, SEPTEMBER 11	
7:00 - 8:30 a.m.	Utility Managers' Breakfast
7:00 a.m. - 5:00 p.m.	Registration Desk Open
7:00 a.m. - 5:00 p.m.	Speaker Ready Room
7:30 a.m. - 9:00 a.m.	Continental Breakfast (Exhibit Hall)
7:30 a.m. - 3:30 p.m.	Scavenger Hunt
7:30 a.m. - 4:00 p.m.	Exhibit Hall Open
7:30 a.m. - 4:00 p.m.	Cornhole, Ring Toss & Other YP Activities
8:00 - 8:30 a.m.	Moderator and Assistant Moderator Orientation
8:00 a.m. - 12 noon	YP Poster Session
8:00 a.m. - 3:00 p.m.	VA AWWA Student Water Challenge Workrooms
8:00 a.m. - 5:00 p.m.	Mother's Room
8:00 a.m. - 6:00 p.m.	Traveling Bookstore
8:30 a.m. - 12 noon	Concurrent Technical Sessions 11-20
9:00 - 10:00 a.m.	Mobile Session 3
9:00 - 11:00 a.m.	Biosolids Beauty Contest
9:00 a.m. - 5:00 p.m.	Committee Meetings
10:00 - 11:00 a.m.	VA AWWA 2nd Business Meeting & Section Forum
10:00 - 11:00 a.m.	Break
10:00 - 11:00 a.m.	VWEA Ops Challenge Demonstrations
11:00 a.m. - 12 noon	Mobile Session 4
12 noon - 1:30 p.m.	VA AWWA Membership Appreciation & Awards Luncheon
12 noon - 1:30 p.m.	Luncheon for Those Not Attending VA AWWA Luncheon
1:00 - 1:30 p.m.	Moderator and Assistant Moderator Orientation
1:30 - 2:00 p.m.	WEF Student Design Competition Wastewater Team Presentation
1:30 - 5:00 p.m.	Concurrent Technical Sessions 21-30
2:00 - 2:30 p.m.	WEF Student Design Competition Environmental Team Presentation
2:00 - 3:00 p.m.	Mobile Sessions 5
2:30 - 5:00 p.m.	VA AWWA Student Water Challenge Presentations
3:00 - 4:00 p.m.	Break
3:00 - 4:00 p.m.	VA AWWA Distribution Rodeo Demonstrations
3:00 - 4:00 p.m.	VWEA Business Meeting
3:30 - 5:00 pm	YP Committee Meeting & YP Round Table
4:00 - 11:00 pm	Exhibitor Break Down
5:00 - 6:30 p.m.	YP & Student Reception & YP Bingo Networking Event
5:00 - 6:30 p.m.	Awards Banquet Reception
6:30 - 8:00 p.m.	Banquet & Awards Dinner
8:00 - 10:00 p.m.	Fun Night
THURSDAY, SEPTEMBER 12	
7:00 - 10:00 a.m.	Registration Desk Open
7:00 a.m. - 12 noon	Speaker Ready Room
8:00 a.m. - 12 noon	Traveling Bookstore
7:15 - 8:45 a.m.	5S Breakfast (5S Members only)
7:30 - 9:00 a.m.	Continental Breakfast
8:00 - 8:30 a.m.	Moderator and Assistant Moderator Orientation
8:30 a.m. - 12 noon	Concurrent Technical Sessions 31-40
10:00 - 10:30 a.m.	Break
12 noon - 4:30 p.m.	Empowering Communities Through Stormwater Outreach
12:30 - 2:30 p.m.	WaterJAM Committee Post-WaterJAM Meeting/Lunch
12:30 - 3:00 p.m.	Virginia Aquarium: Behind-the-Scenes Water Quality Tour
1:00 - 3:00 p.m.	Elizabeth River Project Ryan Resilience Lab

CONFERENCE BASICS

Registration Basics

All speakers, exhibitors, volunteers, and individuals attending workshops, technical sessions, exhibits, and social functions are required to be registered. Admission to all events, including receptions, luncheons, and the banquet will require a registration badge. Pre-registered attendees may pick up their name badges and program materials at the registration kiosk, located near Box Office B, at the times listed in the conference schedule.

What's Included in Your Conference Registration?

Full Conference Registration

Full conference registration includes entry to the Opening Night Meet & Greet Reception, the Keynote Session, all technical and mobile sessions, exhibits, continental breakfast, lunch, and breaks each day. Access to the Networking Reception featuring the Water Reach Silent Auction; Awards Banquet Reception, or the YP & Student Reception, and the Awards Banquet & Fun Night are also included when you register for the full conference.

Note: *The Exhibit Staff registration includes all of the items above except the Meet & Greet Reception or the Awards Banquet & Fun Night. Tickets for these items can be added during the registration process.*

Single- or Half-Day (Thursday) Registration

Single- and half-day registration permits entry to the technical and mobile sessions, the exhibits, and the breakfast, lunch, and breaks of the registration day. Attendees on this day will have access to the Keynote Session on Tuesday.

Exhibit Hall Pass

(Utility Staff on Wednesday Only)

Utility staff will gain entry to the exhibits, breakfast, lunch, and breaks via the Exhibit Hall Pass.

Extras

The Golf Tournament, Clay Shoot, 5K Fun Run, Special Breakfasts, Workshops, and Plant Tours are not included in the conference registration packages and require additional fees. Extra tickets for the Awards Banquet & Fun Night, Meet & Greet Reception, and Networking Reception may be purchased to supplement single-day packages.

Note: *The YP Service Project, the Women Impacting Water Breakfast, and the First-Time Attendee Breakfast are free events.*

PRICING

Registration Deadlines	Early Bird Rate On or Before 8/09/2024	Regular Rate After 8/09/2024
FULL CONFERENCE		
Member	$475	$555
Non-member	$550	$645
Plant, Collection System, Distribution or Maintenance Staff	$295	$320
Retiree/Guest	$150	$150
Student	Complimentary	Complimentary
SINGLE DAY		
Member	$300	$325
Non-member	$375	$410
Plant, Collection System, Distribution or Maintenance Staff	$140	$175
Exhibit Hall Pass (Wednesday Only for Utility Plant, Collection System, Distribution or Maintenance Staff)	$65	$85
Retiree/Guest	$100	$100
Student	Complimentary	Complimentary
HALF DAY THURSDAY		
Member	$150	$170
Non-member	$185	$200
Plant, Collection System, Distribution or Maintenance Staff	$65	$80
Retiree/Guest	$65	$65
EXHIBITORS		
Exhibit Booth	$685	$755
Exhibit Staff	$280	$320

Attendee Cancellation Policy: Written notification is required and must be received by August 26, 2024. A 25% service fee will be retained on all cancellations. No refunds will be given after August 26, 2024. One substitution is allowed at no additional cost. In the event WaterJAM must be canceled prior to the start of the conference due to unforeseen circumstances, attendees will be refunded the price of registration. However, VA AWWA and VWEA do not assume responsibility for any additional costs, charges, or expenses; including but not limited to, charges made for travel and lodging. In the event WaterJAM is canceled after the start of the conference on Monday, September 9, 2024, due to unforeseen circumstances, pro-rated refunds or credits may be provided for any events not held. Any credit or refund will be at the discretion of VWEA and VA AWWA.

Standard of Conduct

We are committed to providing a professional, safe, and welcoming environment for all attendees. We expect event participants to conduct themselves in a manner consistent with principles including, but not limited to, exhibiting common courtesy and civility, acting in a business-like, ethical, and professional manner, supporting diversity, equity, inclusion and accessibility, and refraining from discriminatory or harassing behavior directed toward any participant.

Should any participant have an experience that is not in the spirit of this Standard of Conduct, please contact Association staff.

CONFERENCE LOGISTICS

Conference Location

The Virginia Beach Convention Center – 1000 19th St., Virginia Beach, VA, 23451

All conference technical sessions and exhibits will be held at the Virginia Beach Convention Center (VBCC), the nation's first convention center to earn LEED® Gold certification from the U.S. Green Building Council.

With nearly 29,000 square feet of meeting space, more than 150,000 square feet of column-free exhibit space, one of the largest ballrooms on the East Coast, and more than 2,200 free parking spaces, it's the perfect location for WaterJAM 2024!

Located only minutes from the beach and resort area, the VBCC is convenient to a variety of arts and entertainment venues and family-friendly attractions, so you can enjoy new sights, sounds, and culinary delights within a short ride of the conference center.

Conference Hotels

Courtyard Virginia Beach Oceanfront

3737 Atlantic Ave. | Virginia Beach, VA 23451
Phone: 757-437-0098
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Rate: $120 single & double *(Rates do not include tax.)*
Parking: $16/day
Online reservations: *https://tinyurl.com/3sukdnd5*
(Use this link to take advantage of the discounted group rate.)
Reservation deadline: August 9, 2024

Courtyard Virginia Beach Oceanfront

2501 Atlantic Ave. | Virginia Beach, VA 23451
Phone: 757-491-6222
https://www.marriott.com/en-us/hotels/orfoc-courtyard-virginia-beach-oceanfront-south/overview/
Rate: $120 single & double *(Rates do not include tax.)*
Parking: $16/day
Online reservations: *https://tinyurl.com/h8hczm7p*
(Use this link to take advantage of the discounted group rate.)
Reservation deadline: August 9, 2024

Holiday Inn Oceanside

2101 Atlantic Ave. | Virginia Beach, VA 23451
Phone: 757-491-1500 | **Toll-free:** 800-465-4329
https://www.vboceanside.com
Rate: $120 single & double *(Rates do not include tax.)*
1 complimentary parking space/room
Online reservations: *https://tinyurl.com/2jv45zck*
Group code: WAJ
(Use this code to take advantage of the discounted group rate.)
Reservation deadline: August 8, 2024

Holiday Inn Express - Oceanfront

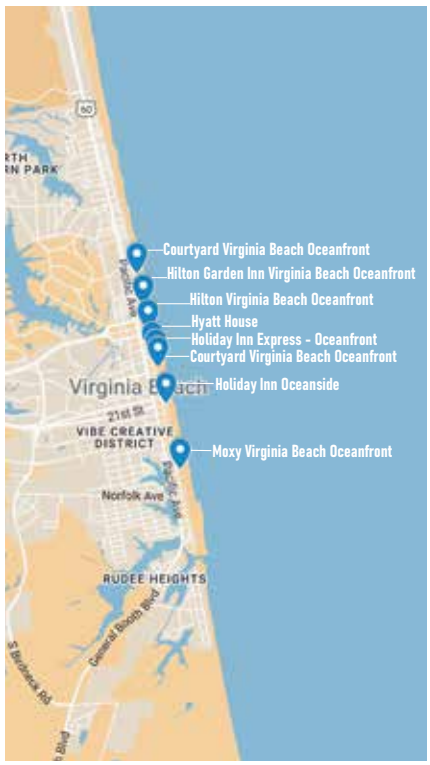
2607 Atlantic Ave. | Virginia Beach, VA 23451
Phone: 757-491-6900 | **Toll-free:** 800-465-4329
www.hiexpressvb.com
Rate: $120 single & double *(Rates do not include tax.)*
1 complimentary parking space/room
Online reservations: *https://tinyurl.com/4apk28z6*
Group code: WJA
(Use this code to take advantage of the discounted group rate.)
Reservation deadline: August 8, 2024

Moxy Virginia Beach Oceanfront

1201 Atlantic Ave. | Virginia Beach, VA 23451
Phone: 757-452-4515
https://www.marriott.com/en-us/hotels/orfvx-moxy-virginia-beach-oceanfront/overview/
Rate: $117 king Ocean Front *(Rates do not include tax.)*
Parking: $11/day
Please call for reservations: 1-888-236-2427
Online reservations: *https://tinyurl.com/4ty8z4b7*
Group code: WJC
(Use this code to take advantage of the discounted group rate.)
Reservation deadline: August 9, 2024

Hyatt House

2705 Atlantic Ave. | Virginia Beach, VA 23451
Phone: 757-428-4200
https://www.hyatt.com/hyatt-house/en-US/orfxv-hyatt-house-virginia-beach-oceanfront
Rate: $134 single & double *(Rates do not include tax.)*
Online reservations: *https://tinyurl.com/4ry8ezdy*
Group code: C-WJAM
(Use this code to take advantage of the discounted group rate.)
Reservation deadline: August 9, 2024



Hilton Virginia Beach Oceanfront – SOLD OUT

3001 Atlantic Ave. | Virginia Beach, VA 23451
Phone: 757-213-3000 | **Toll-free reservations:** 1-800-HILTONS
https://www.hilton.com/en/hotels/orfvhhf-hilton-virginia-beach-oceanfront/rooms
Rate: $169 city view | $179 ocean view
(Rates do not include tax.)
Parking: Complimentary overnight self-parking; $20 overnight valet parking
Online reservations: *https://tinyurl.com/46etes4e*
Group name: Water Jam 2024
Group code: W24
Reservation deadline: August 12, 2024

Hilton Garden Inn Virginia Beach Oceanfront – SOLD OUT

3315 Atlantic Ave. | Virginia Beach, VA 23451
Phone: 757-305-9000 | **Toll-free reservations:** 1-877-STAY-HGI
http://www.hiltongardeninnvirginiabeach.com
Rate: $155 single and double *(Rates do not include tax.)*
Parking: 1 complimentary self-parking space/room; $16 valet parking
Online reservations: *https://tinyurl.com/dskt39yx*
Group name: Water Jam 2024
Group code: WJA
Reservation deadline: August 8, 2024

TRANSPORTATION

Driving Directions

When approaching from the west, routes are I-64, U.S. 460 or U.S. 58. From the north and south, convenient routes include I-85 or I-95, U.S. 17 and U.S. 13 (crossing the world-famous Chesapeake Bay-Bridge Tunnel, a 17-mile span connecting Virginia's Eastern Shore with Virginia Beach). These routes intersect with I-64, which connects with the Virginia Beach-Norfolk Expressway, I-264, and leads directly to the Virginia Beach oceanfront.

When traveling from routes northwest of the Hampton Roads region, motorists are encouraged to use a faster, alternate route via I-664 Monitor Merrimac Memorial Bridge Tunnel (MMMBT), off of I-64 East. While the mileage to reach the beach is greater, I-664 tends to be less congested, and the time spent idling in traffic is statistically reduced. Simply take I-64 East, to I-664 (Exit 264), to I-264 (Exit 15A), which will lead to the oceanfront. When leaving to return home, take I-264 West to I-664 North (Exit 299) to I-64 West (Exit 1A).

Air Travel

Norfolk International Airport (*www.takeorf.com*) is 20 minutes away from the Virginia Beach Oceanfront and is serviced by most major U.S. carriers. The International Air Transport Association airport code for Norfolk International Airport is ORF.

Allegiant Air, American Airlines, Delta Air Lines, Frontier Airlines, Southwest Airlines and United Airlines offer convenient access to hundreds of cities worldwide. Airport terminals are open 24 hours a day, seven days a week.

Travelers are encouraged to contact their airline for ticket counter hours and required check-in times. Be sure to also allow extra time to complete the security screening process. In general, the recommended arrival time to the airport is 90 minutes prior to departure time for domestic flights, and two hours for international flights.

Ground Transportation

RENTAL CARS

Rental car reservation desks are located in the Arrivals Terminal on Level 1. Hours of operation are from 4:30-1:00 a.m. daily. Rental car pickup is located on Level G – Garage A. Rental car return is located on Level 2 – Garage A.

RIDE HAILING

Lyft and Uber are permitted to do business at Norfolk International Airport.

TAXIS

Taxis are located outside the Arrivals Terminal Door #4. Five rides for the price of one to the same destination. Drivers accept cash and some credit cards.

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SUSTAINABILITY INITIATIVES

The 2024 WaterJAM Committee, along with the Sustainable Utilities Committee, is proud to announce that we are continuing our "Going Green" initiative and are seeking to be the greenest WaterJAM conference to date! Be on the lookout for the usual sustainable "green" initiatives such as multiple recycling and composting stations, locally sourced menu options, and local vendor products. With the continued impacts of excess waste in our landfills, in our communities, and along our waterways, we will be promoting plastic reduction and the conference center's composting initiative this year.

Our exhibitors will once again be able to earn the Tidy Otter Sustainability Award for their efforts to minimize negative environmental impacts when planning their exhibits, marketing material and giveaways! Each exhibitor meeting our Sustainable Exhibitor requirements will receive the following benefits:

- The Tidy Otter Sustainability Award will be posted at their exhibit
- Special designation in the exhibitor listing in the WaterJAM app
- Company name listed in **BOLD** in the Exhibitor Guide
- Special designation on the Tidy Otter Board placed at the entrance to the Exhibit Hall
- Recognition in the VA AWWA publication *Tap Into Virginia* and the VWEA publication *Conduit* following WaterJAM!



Be on the lookout for The Tidy Otter Award at participating exhibitors' booths! Other sustainable initiatives at WaterJAM include:

- Continued improvement to the WaterJAM App to reduce the use of paper products
- Reducing the number of signs and handouts utilizing double-sided printing
- Printing reusable signs on recyclable material
- Printing attendee planners and banquet menus on recycled, processed chlorine free paper
- Placing recycle bins appropriately throughout the conference
- Providing water bottle filling stations during the conference
- Eliminating use of single-serve condiments, sugar, and creamer
- Reusing lanyards
- More thoughtful consideration around waste generated from boxed lunches
- Composting food waste
- Formation of a green conference team, including WaterJAM Planning Committee members and VWEA and VA AWWA volunteers with special distinction on their nametag, for conference attendees to ask questions or provide feedback
- Locating off-site events within walking distance and/or providing group transit options
- Young Professionals sponsored stream cleanup project

Please support us by participating in recycling efforts by using the water filling stations with reusable water bottles; walking, carpooling, or taking mass transit to offsite events; and reducing your usage of materials during the conference. If you still have your lanyard from last year – or from another event – bring it and reuse it. Then be sure to return your lanyard at the end of the conference so that it can be reused next year!

If you have ideas for next year's conference, please contact Rebecca Currall at *rcurrall@hrsd.com.*

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NATIONAL REPRESENTATIVES



WEF REP

Howard Carter, President-Elect

Water Environment Federation

Howard Carter is the president-elect and a member of the 2023-24 Board of Trustees for the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, Va.

Howard is the director of the Water Resource Recovery Department for the city of Saco, Maine. He is responsible for the daily operations and maintenance, funding, staffing, billing, licensing and construction of the city's Resource Recovery Facility and 32 pumping stations. He also oversees the implementation of Combined Sewer Overflow Master Plan and any separation or construction projects associated with that.

A WEF member since 1998, Howard spent five years in the WEF House of Delegates as a representative of the New England Water Environment Association (NEWEA) and his last year as the speaker of the House. During that time, he has chaired the House Nominating Committee, served on the House Steering Committee, the CLC Steering Committee, along with the WEFMAX, Outreach and Budget committees, and has been a member of most work groups. Additionally, he was a founding member of the New England Operations Challenge team "Pump Fiction" that went on to compete nationally in both Division 1 and 2 for a number of years.

Howard is also an active member of NEWEA, where he served as president in 2010. He is also a past president of the Maine Water Environment Association in 2002.

In addition to receiving numerous WEF Operations Challenge team awards over the years Howard is also a recipient of the William D. Hatfield Award, the Arthur Sidney Bedell Award, A WEF Fellow, a WEF Service Pin Recipient, and a member of the Select Society of Sanitary Shovelers.

Howard is a graduate of both the U.S. Naval Nuclear Piping/Mechanical Apprenticeship program and the Southern Maine Technical College Wastewater Treatment/Environmental program.



AWWA REP

Matthew Junker, Public Affairs Chair

American Water Works Association

Matthew Junker is a public relations professional for the Municipal Authority of Westmoreland County, a water and wastewater utility in Southwestern Pennsylvania. Matt volunteers with the Public Affairs Council at AWWA, where he worked on the Lead Communications Guide and Toolkit, *Trending in an Instant* and other projects. He has presented twice at ACE, once at UMC, and published five articles in *JournalAWWA* and one in *OpFlow*.

With a degree from Penn State, Matt worked in Journalism for 11 years, and then moved into state government and then county government for the next 11 years. As a journalist, Matt covered courts, county government, and crime.

In the Pennsylvania Senate, Matt handled grants for his Senator, bringing back $6 million in grants in four years.

At Westmoreland County, Matt served as chief of staff for Commissioner Chuck Anderson, a retired colonel in Marine Corps aviation. In his seven years at Westmoreland County, Matt had responsibility for day-to-day operational management of the county, which had a $340 million budget, over 40 departments and about 2,000 employees.

While working for the state and county, Matt had lots of interaction with the Municipal Authority of Westmoreland County, occasionally finding funding for projects, and later keeping Commissioner Anderson up to speed with developments at the water authority.

When the previous public relations professional at Municipal Authority of Westmoreland County ran for county commissioner and won, Matt took the job and has had great fun learning something new every day.

KEYNOTE SESSION



WATER AND WASTEWATER CYBER RESILIENCE WHO'S WINNING?

Jennifer Lyn Walker
Director of Infrastructure Cyber Defense for the Water Information Sharing and Analysis Center

What do cyber-informed engineering, cyber hygiene, and secure-by-design all have in common? Answer: The building blocks of a cyber resilient water and wastewater systems sector for any size utility, manufacturer, supplier, or consultant.

With its highly distributed and heterogeneous environment, the water and wastewater systems sector faces unique challenges compared to other critical infrastructure sectors. As such, cybersecurity seems out of reach for many utilities. However, given the varied cyber threat landscape with its menagerie of adversaries and their intents (or opportunities) to attack U.S. critical infrastructure, utilities and their partners cannot afford to limp along with inadequate protections and worst-case architectures.

Whether we like it or not, cybersecurity is a cost of operating in today's environment, and like owning a home or driving a car, we can't be negligent, or we'll pay the price – one way or another. While it will take an investment from everyone – monetary for some and time for others – it is possible for everyone to provide appropriate cyber protections for our utilities without spending a fortune. This session will review the worst-case scenarios that can lead to a very bad day for a utility, and discuss various no-cost/low-cost solutions, resources, and tools available to help any size utility bolster cyber resilience, which helps us all. Admittedly, not everything is free, but you might be surprised to learn how much you can do with what you already have (which should make leadership and rate payers happy)!

> "Whether we like it or not, cybersecurity is a cost of operating in today's environment, and like owning a home or driving a car, we can't be negligent, or we'll pay the price – one way or another."

About Jennifer

Jennifer Lyn Walker is the Director of Infrastructure Cyber Defense for the Water Information Sharing and Analysis Center (WaterISAC). She is a cybersecurity professional with over twenty-three years' experience supporting critical infrastructure organizations from financial services, healthcare, water/wastewater, and SLTT (state, local, tribal, and territorial) governments.

As the Director of Infrastructure Cyber Defense for WaterISAC, Jen oversees the sharing of cyber threat information that is most relevant to the water and wastewater systems sector, to include emerging and enduring cyber threats and vulnerabilities to critical infrastructure. She is also active in education and outreach to bring the most important cyber information to the sector and is passionate about advocating for the underserved smaller utilities.

In addition to WaterISAC, Jen is also a key cybersecurity advisor for multiple ISACs and ISAOs, including Tribal-ISAC, Real Estate ISAC, and the Faith-Based Information Sharing and Analysis Organization (FB-ISAO) where she contributes to developing resources and strategies to enhance security and resilience for the communities they serve.

Jennifer is experienced in malware analysis, cyber threat intelligence, cybersecurity awareness, compliance, insider threat protection, threat assessments, and OT/ICS cyber safety and security. She is the primary author of WaterISAC's Cybersecurity Fundamentals for Water and Wastewater Utilities.

PRE-CONFERENCE EVENTS

WATER TASTE TEST/WASTEWATER EDUCATION

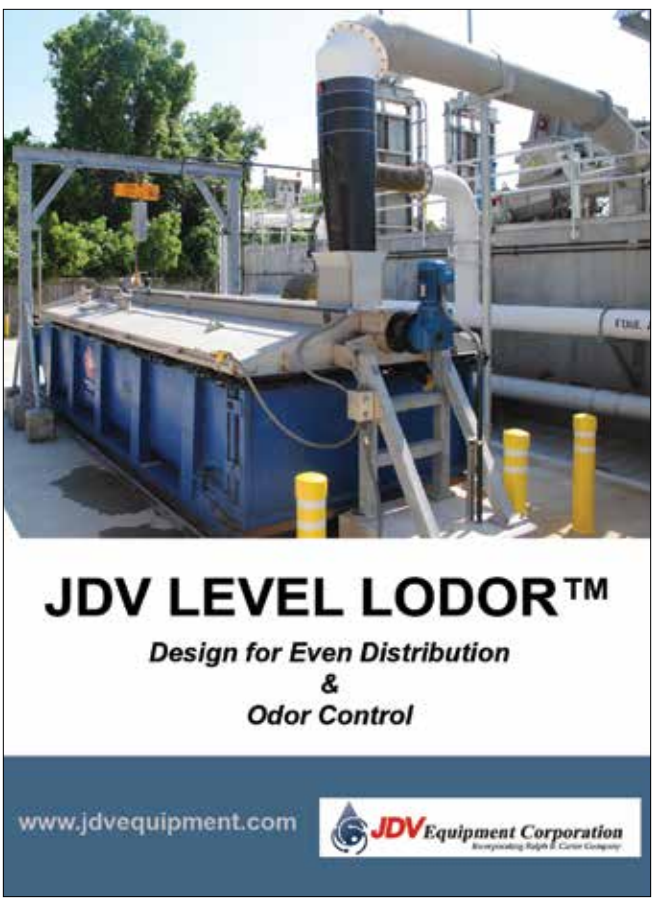
When: Sunday, September 8 | 1:00 - 4:00 p.m.
Where: Virginia Beach Boardwalk at 31st St. (the Neptune Statue)

The Water Taste Test/Education Booth is returning once again to WaterJAM. This year, the event will be held at the Virginia Beach Oceanfront on the Boardwalk near 31st Street. Located south of Neptune's Park, the 34-ft. statue of King Neptune will overlook our efforts to educate the public. The purpose of the Water Taste Test is to allow the public an opportunity to compare Virginia Beach tap water with bottled water in a blind, side-by-side taste test. In addition to the taste test, we will show the public the difference in cost between bottled water and tap water.

We'll also have fun interactive activities to educate on "What Not to Flush" and provide brochures presenting fun facts about water and sewer systems for public education purposes.

Come join the fun! The water will be refreshing and free! If you have any questions or want to volunteer to help, please contact Laura Tworek (757-385-4948 or *ltworek@vbgov.com*)





WaterJAM 2024 GOLF OUTING & COOKOUT

When: Monday, September 9 | 7:30 a.m. - 3:00 p.m.
Where: Cypress Point Country Club
5340 Club Head Rd., Virginia Beach, VA 23455
www.cypresspointcc.com | 757-490-6300
Price: $115 per person – *not included in the conference registration fee*
Registration starts and range opens at 7:30 a.m.

Join us for the 18th consecutive WaterJAM Golf Outing & Cookout to raise money for Water For People. This year's event is a great opportunity to enjoy a day with friends and colleagues as we kick off WaterJAM 2024.

Registration includes a continental breakfast, a green fee, cart, range balls, lunch, and prizes! Shotgun start is at 9 a.m. As in past tournaments, the format remains a four-person captain's choice. Individuals who sign up for the tournament will be paired with other golfers. Registration will be limited to 144 golfers, so register early. A raffle draw and prize giveaway will take place during the luncheon after the tournament. Proceeds from the tournament and raffle will all be donated to Water For People.

Register to play in and/or sponsor this event on the WaterJAM website. You may include this event as part of your conference registration or register for it separately. When registering, please indicate if you are interested in donating a raffle prize (merchandise, gift certificates, etc.). Sponsorship opportunities for breakfast, lunch, hole-in-one prizes, and tee boxes and other on-course contests are also available.

For more information, contact Paul Delphos (757-779-7083 or *pjdelphos@burnsmcd.com*), or Thom Lipinski (571-291-7792 or *tlipinski@loudounwater.org*).

WaterJAM 2024 CLAY SHOOT

When: Monday, September 9 | 8:45 a.m. - 2:00 p.m.
Where: Old Forge Sporting Clays
7945 Long Reach Rd., Providence Forge, VA 23140
www.oldforgesportingclays.com | 804-966-2955
Price: $90 per person – *not included in the conference registration fee*

The WaterJAM 2024 Clay Shoot event at Old Forge Sporting Clays in Providence Forge is 90 minutes west of Virginia Beach Convention Center, and 30 minutes east of Richmond International Airport. Mandatory safety instruction will begin at 8:45 a.m. with a shotgun start at 9:00 a.m. The entry fee includes 100 targets, lunch, and door prizes. Remember to bring hearing protection, safety glasses, and a minimum of five boxes of #7.5, #8, or #9 light field-load shotgun shells of the appropriate gauge for your shotgun.

Sponsorships, which are used to enhance our door prizes, are available for $85 each.

Register to participate and/or sponsor this event on the WaterJAM website. We welcome squads of up to five shooters, or you can register as an individual and we will place you with a squad. You may include this event as part of your conference registration, or you can register for it separately.

Due to the recent popularity of this event, we're limiting registration to the first 85 participants.

For further information, contact Taylor Turner (804-665-1075 or *taylor.turner@arcadis.com*) or Greg Everhart at (804-240-8785 or *gregeverhart@combs-associates.com*).

YP-SPONSORED SERVICE PROJECT

When: Monday, September 9 | 8:30 a.m. - 12 noon
Price: Free, but registration is required

The Young Professionals Committee (YP) will be holding a sponsored Stream Clean-Up Service Event during the WaterJAM Conference. Participation in this service event is open to all, including conference attendees, students, and friends of the water community. Meet colleagues from across Virginia and help raise stormwater awareness by participating in a stream cleanup for this year's WaterJAM volunteer project.

The project is easy, lots of fun, and raises awareness of the connection between human impact and local waterways. Transportation and supplies will be provided. All participants of the service event will receive a goodie! Additional details will be provided in upcoming editions of the VWEA & VA AWWA e-Newsletters.

For more information, contact our committee members, Mackenzie Rickard (*mrickard@gfnet.com*), Erin Milligan (*erin.milligan@tylin.com*), Michael Blumenstock (*mblumenstock@dewberry.com*), Jovante Lillard (*jlillard@gfnet.com*), Charles Noakes (*noa002@henrico.us*), Nick Tenorio (*tenorionm@cdmsmith.com*), Hannah Alexander (*alexanderhd@cdmsmith.com*), or Dylan Robinson (*drobinson@jmt.com*).



YP Service Project volunteers help clean-up the stream and collect many bags of trash.



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Ed Houchens
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Tommy Pierce
(540)-491-3858
tommy.pierce@clearwaterinc.net

David Green
(704) 840-7271
david.green@clearwaterinc.net

Dickie Thompson
(804) 895-8550
dickie.thompson@clearwaterinc.net

RECEPTIONS

OPENING NIGHT MEET & GREET RECEPTION

When: Monday, September 9 | 7:00 - 10:00 p.m.
Where: Hilton Virginia Beach Oceanfront – Peacock Ballroom
3001 Atlantic Ave. and 31st St., Virginia Beach, VA 23451

Please join us on Monday night as we kick off WaterJAM 2024 with sumptuous hors d'oeuvres, refreshing beverages, and the best of company.

Note: Please be aware that the valet serves all hotel guests, including guests of the hotel's two restaurants, who may not be guests of the Hilton Virginia Beach Oceanfront. There may be a delay in getting your vehicle returned after the event. Tips are appreciated.

Self-parking is available $2 per hour in the city garage attached to the hotel's second level.



NETWORKING RECEPTION FEATURING THE WATER REACH SILENT AUCTION

When: Tuesday, September 10
Reception: 5:00 - 6:30 p.m. | **Auction:** 3:00 p.m. | **Final bids:** 6:00 p.m.
Where: Exhibit Hall

Join us for light hors d'oeuvres and drinks at the Networking Reception featuring the Annual Water Reach Silent Auction! Mingle with friends and colleagues as you place bids on a great selection of artwork and other items donated by Virginia businesses. Credit/debit card payments are accepted, so bid high and bid often! Feel free to check out the auction items, which will be available online prior to the conference.

Auction proceeds will be donated to the Water Reach Committee, which assists small water systems throughout Virginia. Don't miss this opportunity to take home some unique items while supporting one of VWEA and VA AWWA's key initiatives to bring safe water and improved sanitation to people in Virginia who are in need.

If you are an artist, craftsperson, or company wishing to donate an item for the auction, contact Greg Prelewicz at *gprelewicz@fairfaxwater.org* to make donation arrangements.



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BREAKFASTS





WOMEN IMPACTING WATER NETWORKING BREAKFAST

When: Tuesday, September 10 | 7:30 - 9:00 a.m.
Price: Free, but registration is required

Calling all women and women supporters who want to start WaterJAM feeling connected and empowered! Join us for the third annual Women Impacting Water Networking Breakfast where we'll feature interactive game-themed discussions with female water industry professionals, at various career stages, sharing their experiences in the water/wastewater industry. This breakfast is about bringing the industry together to celebrate the impact and value of women in water.

To secure your spot, select the Women Impacting Water Networking Breakfast when registering for WaterJAM. Be sure to spread the word with peers who may be interested in attending too! #WomenImpactingWater | #WaterJAM2024

FIRST-TIME ATTENDEE BREAKFAST

When: Tuesday, September 10 | 7:30 - 9:00 a.m.
Price: Free, but registration is required

If this is your first time at WaterJAM, please join us on Tuesday morning for the First-Time Attendee Breakfast with a game show-style competition. The game, starting at 8:00 a.m., will focus on how to get the most out of your WaterJAM experience while providing some laughs. No matter who has the most points at the end, YOU will be the winner!

For more information, contact Erin Beckmann at *erin.beckmann@fairfaxcounty.gov* or Jonathan Wright at *jpwright@vbgov.com.*

UTILITY MANAGERS' BREAKFAST

When: Wednesday, September 11 | 7:00 - 8:30 a.m.
Price: $30 per person – not included in the conference registration fee

This breakfast is an excellent opportunity for managers, directors, and senior staff from wastewater and drinking water utilities to share ideas, discuss trends, and address critical issues.

Please visit the website closer to the date of the conference for more details about the speakers and topics to be presented.

5S BREAKFAST

When: Thursday, September 12 | 7:15 - 8:45 a.m.
This breakfast is for 5S members. An email will be sent to members in July to RSVP their attendance.

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SPECIAL EVENTS

WATER FOR PEOPLE 5K FUN RUN/WALK

When: Tuesday, September 10 | **Check in:** 6:30 a.m. | **Start:** 7:00 a.m.
Where: Virginia Beach Boardwalk and 31st St. (Neptune Statue)
Price: $50 per person – *not included in the conference registration fee*

Add a little fun to your morning, and head to the oceanfront for a scenic run or walk to support a worthwhile cause. The Water For People Committee is hosting its annual 5K Fun Run/Walk. Enjoy the beautiful boardwalk and earn some bragging rights with a "5K Finisher" ribbon to attach to your name badge.

The registration fee for the event includes refreshments and a T-shirt. Those who register by August 18 will receive a custom race T-shirt. Registrants after August 18 will receive a Water For People T-shirt. Sponsorships are available for $140. Organizations that sponsor by August 18 will have their company's logo printed on T-shirts, as well as recognition on social media.

All proceeds from this event will be donated to Water For People (*www.waterforpeople.org*), an international nonprofit committed to building a world where all people have access to safe drinking water and sanitation, and where no one suffers or dies from water- or sanitation-related diseases.

Questions may be directed to William Christian (*wchristian@vbgov.com*)



FREE NIGHT

When: Tuesday, September 10 | 7:00 p.m. onward

No WaterJAM activities are planned for this night. Feel free to explore the area, or enjoy a night on the town with friends and colleagues. There are many great places to enjoy in Virginia Beach. Brochures and informational literature will also be available at the Virginia Beach Convention Center and in hotel lobbies.

Note: If you schedule a private event, please respect the Networking Reception and allow time for attendees to leave the conference at 6:30 p.m. to change for and/or travel to your event.

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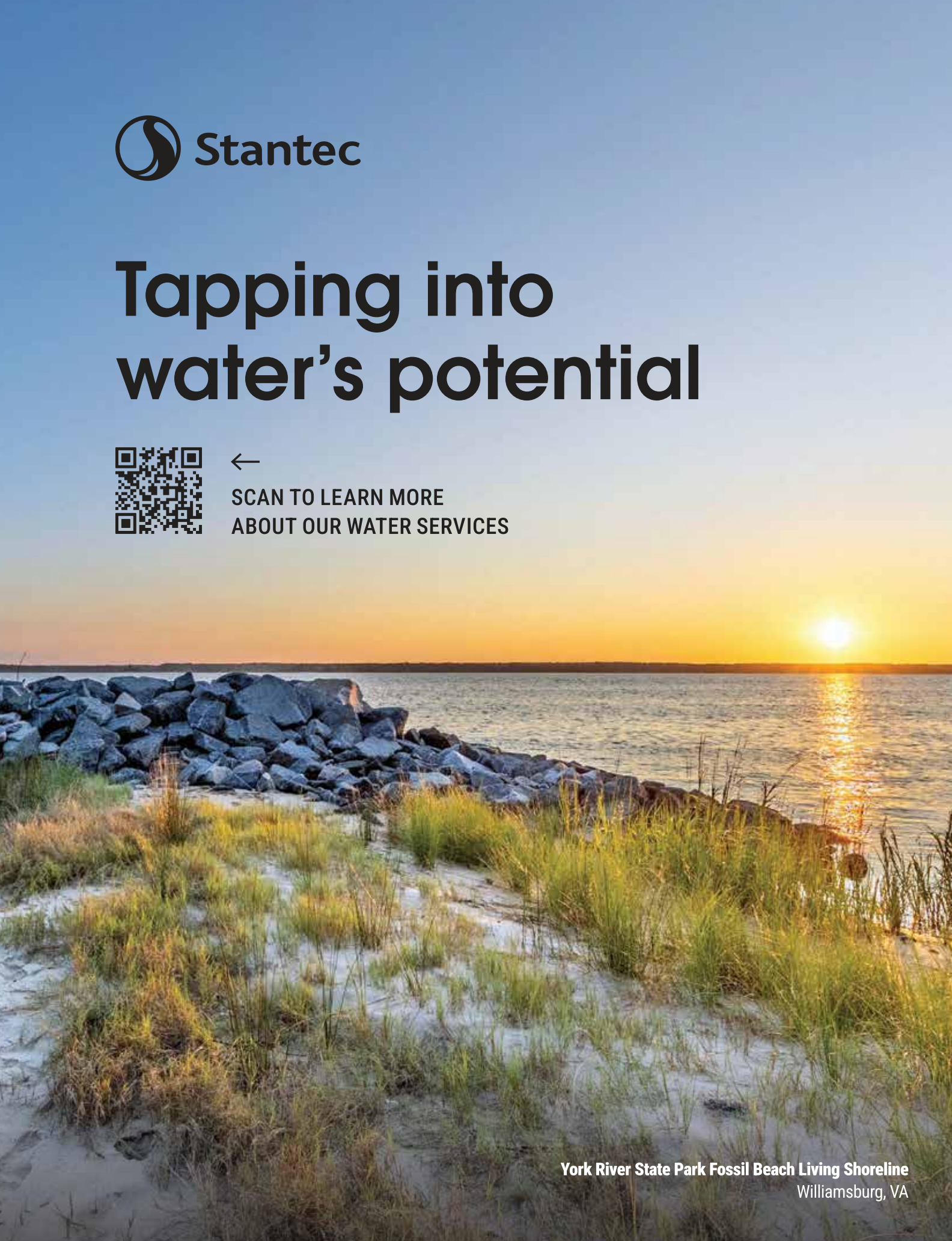
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ASSOCIATION MEETINGS

1ST BUSINESS MEETING

When: Tuesday, September 10 | Immediately following the Keynote Session

2ND BUSINESS MEETING

When: Wednesday, September 11 | 10:00 - 11:00 a.m.

VA AWWA members are encouraged to attend the both the first and second business meetings. The first, brief meeting will present the 2024-2025 Slate of Officers for consideration, along with the Secretary and Treasurer's report.

The second business meeting will be the election of the slate of officers, followed by the AWWA Visiting Officer who will provide an update on AWWA and discuss hosting a Town Hall Meeting for AWWA members.

Please come prepared to hear what is happening at the Association level of the organization and ask any questions you might have about AWWA and its many programs and services.

VWEA BUSINESS MEETING

When: Wednesday, September 11 | 3:00 - 4:00 p.m.

The VWEA business meeting will include the election of officers to the Board of Directors for 2024-2025, approval of by-law changes. The VWEA Secretary/Treasurer will provide an update on VWEA's financial status.



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YP & STUDENT EVENTS

YP FRESH IDEAS POSTER CONTEST

When: Wednesday, September 11 | Judging: 8:00 a.m. - 12 noon

The Fresh Ideas Poster Contest is available to both students and YPs and is a great opportunity to display and present your work at WaterJAM 2024.

A poster displaying your work will be available for all WaterJAM attendees to view as they enter the conference through the VBCC lobby. A panel of industry experts will judge the posters. The creator of the top drinking water-related poster will receive a $1,000 cash prize from VA AWWA and be invited to represent the Virginia Section at the 2025 AWWA Annual Conference and Exposition (ACE) in Denver, CO. The top wastewater, stormwater, or other environmental-related topic will receive a $1,000 cash prize from VWEA. The creators of the second-place poster in each category will receive a $500 cash prize from VA AWWA and VWEA respectively.

For more information on the Poster Contest, or to submit an abstract, please contact Sarah Loomis (*loomisse@cdmsmith.com*), or Molly Sayles (*msayles@hazenandsawyer.com*).



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VA AWWA STUDENT WATER CHALLENGE & VWEA STUDENT DESIGN COMPETITION WINNERS' PRESENTATIONS

VWEA Student Design Competition Presentations –
Wastewater Team Presentation – 1:30 p.m. |
Environmental Team Presentation – 2:00 p.m.
VA AWWA Student Water Challenge Presentations – 2:30 – 5:00 p.m.
When: Wednesday, September 11 | 1:30 - 5:00 p.m.

The Annual VA AWWA Student Water Challenge is for science, engineering, and environmental majors from Virginia colleges and universities. It will focus on using a combination of engineering and science to address a real-world water quality issue. Student teams from competing schools will be given a water quality/water treatment problem on the competition day and will be allowed approximately five hours to develop a proposed solution. The winning team will receive a traveling trophy, a plaque, and a $1,200 first-place prize.

The second-place team will receive a plaque and $500 cash prize. Come cheer on your alma mater! The winners will be announced on Wednesday evening at the Awards Banquet.

Prior to the presentations for the Student Water Challenge, the winning teams in the 2024 VWEA Student Design Competition (Old Dominion University /Wastewater and Old Dominion University/ Environmental) will give their presentations. This will be their final opportunity to practice before competing in the National Student Design Competition at WEFTEC 2024. Please attend and give them your best critique and support, so that they represent Virginia well at WEFTEC!

YP COMMITTEE MEETING

When: Wednesday, September 11 | 3:30 – 4:00 p.m.

Come meet your fellow Young Professionals, find out what is going on around the state, and learn how to get more involved! The YP committee is a great way to network and build relationships that will last a lifetime! Check your attendee planner or the WaterJAM app for location information after you arrive. Please contact Hunter Ritchie (*hunter@ritchieenvironmental.com*) with any questions.

YP ROUND TABLE COLLABORATION

When: Wednesday, September 11 | 4:00 - 5:00 p.m.

Come learn about your workplace personality, participate in teambuilding activities, and chat with other YPs and mentors from around the state! The Round Table provides an opportunity to learn more about both yourself and others through small group collaboration and discussion. Spread the word and join us for a great networking opportunity and a small raffle!

WaterJAM's theme for 2024 is "Wave of the Future," which can provoke the thinking of young professionals in the water industry to consider the impact of the work they are doing now and how it will impact future generations. As young professionals, it is both our opportunity and obligation to examine the power that water has. Furthermore, the water industry offers many career opportunities for growth in technology, networking, reporting and many other aspects of

the Water World. Where can we start looking for the future of our industry now? What roles can we play as young professionals in engaging future generations in the water industry?

Join us at WaterJAM's 2024 Young Professional's Round Table where we will dive headfirst into these questions. Questions? Contact Mackenzie Rickard (*mrickard@gfnet.com*), Chakavak Kamran (*kamranc@cdmsmith.com*), Nashid Mirza (*mirzan@bv.com*), Chris Mihalkovic (*cmihalkovic@hazenandsawyer.com*), and Matthew Fanghella (*matthew.fanghella@norfolk.gov*) .

YP & STUDENT RECEPTION

When: Wednesday, September 11 | 5:00 - 6:30 p.m.

The YP & Student Reception is a great time to network with young colleagues in a relaxed setting. Come out and meet other young professionals and students who represent the future of the industry. The reception will be held prior to the Awards Banquet, and light appetizers will be available. The YP & Student Reception will be at the same time and location as the YP Bingo Event. Attendees are welcome to just attend the reception or play bingo with others during this time. Drink tickets will be provided, as well as a cash bar.

Questions? Contact Rusty Nigro (*rnigro@hazenandsawyer.com*), or Lizzy Merin (*elizabeth.merin@fairfaxcounty.gov*).

YP BINGO NETWORKING EVENT

When: Wednesday, September 11 | 5:00 - 6:30 p.m.

The YP Bingo Networking Event is a unique opportunity to meet with young professionals and students within the industry in a casual, fun and engaging way. The event will be held at the convention center during the YP & Student Reception, prior to the Awards Banquet. This event will provide attendees with the opportunity to connect with other Young Professionals in the drinking water, wastewater, stormwater and environmental industries.

Bingo cards will be provided at the YP exhibit hall booth on Wednesday to any YPs who are interested in participating to allow ample opportunity to fill your board ahead of time and during the networking event. The boxes on the bingo card are filled with various discussion topics, characteristics, achievements, etc. The goal is to connect with as many young professionals as possible, in the hopes that they can check off a box on your card that applies to them. Participants who most effectively expand their network by talking to a wide range of people will have the best chance at completing their Bingo card. At the end of the event, participants can exchange their Bingo card to receive raffle tickets. Raffle prizes include up to $500 worth of fun prizes!

Come out and expand your professional network, enjoy drinks and appetizers, and participate in the Bingo-themed event to win exciting prizes!

For more information contact Trey Harksen (*fharksen@dewberry.com*), Rebecca Johnson (*rebecca.johnson@kimley-horn.com*), Jessie Lissner (*jessie.lissner@tylin.com*), or Travis Miller (*tmiller@kbjwgroup.com*).

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AWARDS BANQUET & FUN NIGHT





When: Wednesday, September 11
Reception: 5:00 - 6:30 p.m. | **Dinner:** 6:30 - 8:00 p.m. |
Fun Night: 8:00 - 10:00 p.m.
Where: Grand Ballroom

The fun begins at 5 p.m. with light hors d'oeuvres and cocktails in the foyer outside the Grand Ballroom. The Awards Banquet will follow with the presentation of awards to distinguished recipients.

The event will also include casino and other interactive games that allow you to earn tickets for your chance to win prizes!

Immediately after the banquet, a decadent dessert bar will await you at the Fun Night along with music and a dance floor where you can cut loose.



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FACILITY TOURS

WaterJAM is excited to once again be hosting tours this year with two locations: Elizabeth River Project Ryan Resilience Lab, and Virginia Aquarium.

ELIZABETH RIVER PROJECT RYAN RESILIENCE LAB

When: Thursday, September 12 | 1:00 - 3:00 p.m.
Where: 4610 Colley Ave. | Norfolk, VA 23508
Price: $25 – *not included in conference registration; additional fee.*

The Elizabeth River Project's mission is to restore the Elizabeth River through equitable collaboration with diverse communities, businesses, and governments. They do this while relying on the power of partnership to accomplish our restoration goals. Join us for a tour of this remarkable new facility and an eye-opening exploration of how sea level rise will affect us all. Check out cutting edge green building practices and systems – floating docks, green roofs, solar arrays, rainwater capture, and much more. See sustainability best practices in action and learn about the "planned retreat" that will allow the river to retake the site as sea levels continue to rise.

Pre-registration is required for this event.



VIRGINIA AQUARIUM: BEHIND-THE-SCENES WATER QUALITY TOUR

When: Thursday, September 12 | 12:30 - 3:00 p.m.
Where: 717 General Booth Blvd. | Virginia Beach, VA 23451
Price: $25 – *not included in conference registration; additional fee.*

Join us for a behind-the-scenes tour of both the main "North" building, as well as the NEW "South" building. In addition to all the sharks, sea turtles, rays, and interactive exhibits in the main building, the NEW "south" building will feature an octopus, chocolate chip sea stars, river otters, jelly fish, and many new hands-on learning exhibits. Aquarium staff will share where the aquarium gets their water and how they test/treat the water. Come learn about the various technologies employed at the aquarium, such as filters, pumps, and bio-tower systems. Tour attendees may walk through the public-facing side of the aquarium after the behind-the-scenes tour at no extra cost.

Pre-registration is required for this event.

If you have any questions about the tours, please contact Holly Anne Matel (*hmatel@hrsd.com*), or Becky Currall (*rcurrall@hrsd.com*).



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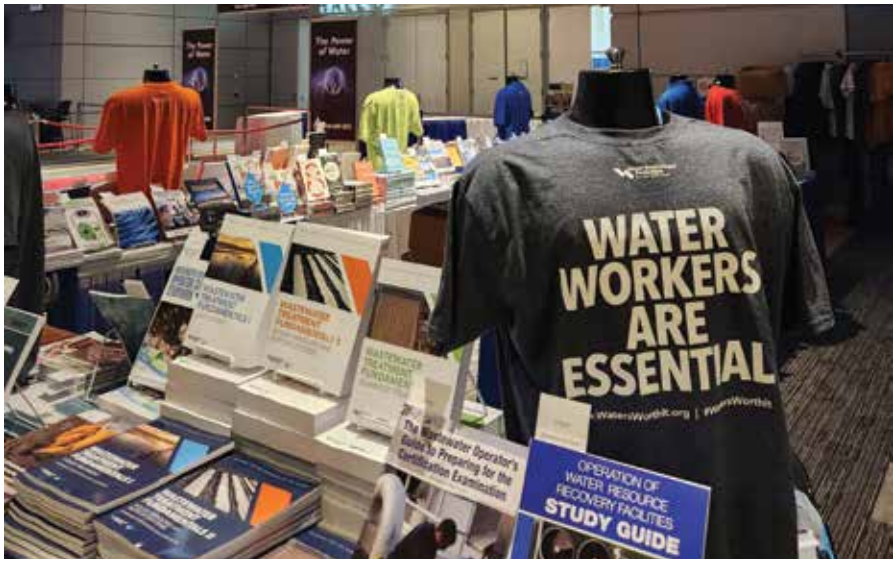
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TRAVELING BOOKSTORE AT WATERJAM

When: Tuesday & Wednesday
Where: Pre-function area near Registration Desk

WaterJAM 2024 will include a WEF bookstore which will showcase approximately 100 water quality and general management reference books, standards, and training materials available for purchase.

Attendees will find resources for professionals at all stages of their careers, including WEF's Wastewater Treatment Fundamentals training series and operator study guides, *Wastewater Engineering: Design of Water Resource Recovery Facilities* (MOP 8 Series), *Standards for Operation of Water Resource Recovery Facilities* (WEF 11, formerly MOP 11), *Standards for Design of Water Resource Recovery Facilities* (WEF 8, MOP 8 Series), and the 24th edition of *Standard Methods* for the Examination of Water and Wastewater. WEF member pricing and bundling discounts will be offered to all attendees!



Newest releases will include:

- *Design of Wastewater and Stormwater Pumping Stations*, 3rd Edition
- *Existing Sewer Evaluation and Rehabilitation*, 4th Edition
- *Membrane Bioreactors*, 2nd Edition
- *Operation of Nutrient Removal Facilities*, 2nd Edition
- *PFAS in the Water and Wastewater Sectors: Fundamentals, Management, and Treatment*
- *Solids Process Design and Management*, 2nd Edition
- *Standard Methods for the Examination of Water and Wastewater*, 24th Edition
- *Standards for Design of Water Resource Recovery Facilities* (WEF 8, MOP 8 Series)
- *Standards for Operation of Water Resource Recovery Facilities* (WEF 11, formerly MOP 11)
- *The Dynamics of Water Innovation: A Guide to Water Technology Commercialization*
- *The Wastewater Operator's Guide to Preparing for the Certification Examination*, 5th Edition
- *Water Professionals Guide to Infectious Disease Outbreaks*
- *WEF/ABC/C2EP Collection Systems Operators' Guide to Preparing for the Certification Examination*, 2nd Edition)
- *Wastewater Engineering: Design of Water Resource Recovery Facilities*, MOP 8 Series
- *Wastewater Treatment Fundamentals I--Liquid Treatment*, 2nd Edition, Manual
- *Wastewater Treatment Fundamentals I--Liquid Treatment Operator Certification Study Questions*, 2nd Edition

WEF- and water-themed merchandise will also be available—be sure to pick up a little something for your family, staff, and clients! WEF Bookstore visitors will receive a free gift and chance to win a free subscription when they get a brief demonstration of Access Water, the Water Environment Federation's technical content platform, to learn how you and your entire utility or company can save money with company-wide access to conference papers, digital books, technical reports, magazine articles, and fact sheets. A subscription allows utilities, companies, and others to provide 24/7 access to more than 20,000 pieces of technical content for all of their employees from any device.

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OPERATOR LICENSURE PREP CLASS



When: Tuesday, September 10 | 1:30 - 5:00 p.m.

Certified Operators are a crucial part of providing an adequate and safe supply of water and protecting the environment. Ensuring that we have an adequate workforce of licensed operators is critical to our industry. To support this need, WaterJAM will once again include an opportunity for both Water and Wastewater Operators to hone their skills and prepare for their next licensure exam. The class is included in your WaterJAM registration.

This session will provide instruction in the following areas:

- Certification study tips, test preparation, and proper study skills.
- Equipment Evaluation and Maintenance; Equipment Operation; Treatment Process Monitoring, Evaluation, and Adjustment.
- Vendor/exhibitor demonstrations to learn about equipment/technologies operators may not be exposed to on a daily basis and discuss associated exam topics.





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EXHIBIT HALL EVENTS

MOBILE SESSIONS

When: Tuesday, September 10 | Wednesday, September 11

VA AWWA and VWEA are once again offering a way for exhibitors to promote their products and services through presentations directly to attendees. Mobile Sessions bring a group of WaterJam attendees right to an exhibitor booth to hear about products/services as part of equipment demonstrations and/or hands-on demonstrations of innovative products. These sessions are meant to be the "anti-PowerPoint" learning opportunity. The intent is to provide an interactive experience allowing for face-to-face exchanges between vendors, operators, maintenance staff, and engineers without the need for a formal classroom presentation.

Attendees will have the opportunity to earn continuing professional education credits (CPE) for waterworks and wastewater operators and continuing education credit hours (CECs).

There will be up to five Mobile Sessions, each of which visits three exhibit booths, offered in the Exhibit Hall this year. Mobile Sessions will meet at the Registration Desk 15 minutes before the designated time and travel as a group to the three exhibitor booths, led by the Mobile Session Moderator. Registration to attend Mobile Sessions is not required, but space is limited.

SCAVENGER HUNT

When: Tuesday, September 10 | 11:00 a.m. - 6:00 p.m.
Wednesday, September 11 | 7:30 a.m. - 3:30 p.m.

Here's a fun way to meet and support our exhibitors! Pick up an Exhibitor Clue Sheet at the Scavenger Hunt booth located in the Exhibit Hall. Spend time on Tuesday and Wednesday in the Exhibit Hall visiting exhibitors where you will receive special codes to enter into the WaterJAM app. Participants will be able to redeem points collected for WaterJAM swag during the Scavenger Hunt. The top two individuals with the most points collected in their app by 3:30 p.m. on Wednesday, September 11 will be the winners.

Event rules and instructions will be provided with each Exhibitor Clue Sheet.

BIOSOLIDS BEAUTY CONTEST

When: Wednesday, September 11 | 9:00 - 11:00 a.m.

Calling all treatment plants, resource recovery facilities, and water pollution control plants! Do you have the best biosolids in Virginia? Bring samples of your stabilized biosolids to Virginia Beach to enter the Biosolids Beauty Contest, which returns for a third year to WaterJAM!

Register and drop off your entries at the marked Biosolids Beauty Contest Pavillion inside the WaterJAM Exhibit Hall by 9 a.m. on Wednesday, September 11. Judging will take place between 9:00 and 10:30 a.m.



A panel of expert judges will determine the best overall sample from both Class A and Class B categories. Additionally, the sample exhibiting the best "presentation" will also receive an award! Winners will be announced at 10:45 a.m. during Wednesday's morning break.

Stop by to see creative submissions of the best biosolids in Virginia!

Contact Stephanie Spalding at *stephanie.spalding@hdrinc.com* for more information.

YPs IN THE EXHIBIT HALL

When: Tuesday, September 10 | 11:00 a.m. - 6:30 p.m.
Wednesday, September 11 | 7:30 a.m. - 4:00 p.m.

The Young Professionals (YP) Committee of Virginia will have a booth in the Exhibit Hall with several different games including cornhole and ring toss! Play to win prizes and network with fellow water/wastewater YPs in Virginia.

Spread the word and we hope to see you this September at WaterJAM in Virginia Beach!

Please contact Paul Petersen (*paul.petersen@dxpe.com*), Sarah Shay (sshay@hazenandsawyer.com), Kristen Hall (*kristen.hall@stantec.com*), Abel Jacobson (*ajacobson@dewberry.com*) or Kirsten Horn *khorn@hazenandsawyer.com*) for more details or if you are interested in helping with the booth.

VWEA OPERATIONS CHALLENGE EVENTS

When: Wednesday, September 11 | 10:00 - 11:00 a.m.

The VWEA Operations Challenge recognizes excellence and professionalism in the operations and maintenance, laboratory, safety, and collection systems aspects of wastewater treatment. Operations Challenge teams will be demonstrating the following events:

- **Pump Maintenance:** The purpose of this event is to test the skills of maintenance/operating teams to respond to trouble at a sanitary sewer lift station that has resulted in an alarm. The scenario: A pump trouble alarm was received via the SCADA system at the Operations Control Center. A crew has been dispatched to troubleshoot the alarm. The team will need to troubleshoot the electrical control panel, troubleshoot and perform routine maintenance on the KSB submersible pump, and restore the pump station to normal operating condition.
- **Collections System:** This event simulates connecting a 4-inch PVC sewer lateral to an

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existing 8-inch PVC sewer pipe while in service (a "wet" pipe). Programming of a Hach A5950 Sampler will be also required. The purpose of this procedure is to create a sampling program for a composite sample (one bottle).

Don't forget to stop by the Operations Challenge table in the Exhibit Hall to watch the DVD and see pictures of past VWEA and WEF competitions featuring Division I & II national winners and other participating Virginia teams, as well as a display chart of invitational competitions. Printed brochures, and information for event coordinators and new teams will be available for anyone interested in participating with the Operations Challenge.

VA AWWA DISTRIBUTION RODEO DEMONSTRATIONS

When: Wednesday, September 11 | 3:00 - 4:00 p.m.

- **Rapid Tappin':** This demonstration is wet and wild as teams race against the clock to install a three-quarter-inch water service. A three-quarter-inch corporation is installed in the pipe. Copper tubing is attached to the corporation and to a meter yoke with a curb stop. This is a timed event with penalties assessed for leaks, safety violations and quality of the service installation. Come and see the state's finest teams compete in this exciting event.
- **Hydrant Hysteria:** Hydrant Hysteria is a fast-paced, head-to-head competition to see how quickly a team can assemble a fire hydrant. This competition is a measure of a three-person team's skill at assembling a hydrant quickly, totally and accurately. All parts are to be assembled in the proper manner and the reassembled hydrant shall be tested by the judges for ability to operate correctly. Penalties are assessed for safety and procedural violations, for parts not assembled correctly and for missing parts.





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AquaPhoenix Scientific
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CJGeo Contractors
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Underground Solutions-Corrpro
Uni-Bell PVC Pipe Association
United Systems and Software, Inc.
Univar Solutions USA, Inc.
USA BlueBook
USALCO
VA811
Valley Automation, Inc.
Valve Tech Sales
Vand Solutions
Veolia
Veolia Water Technologies & Solutions Analytical Instruments
Victaulic
Water Management Solutions, Inc.
Water Works Metrology, LLC
Wendel Companies
Wetland Studies and Solutions, Inc.
Whitman, Requardt & Associates, LLP
Wiley|Wilson
Wind River Environmental
WK Dickson
Wood Equipment Company
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Crowder constructs cutting-edge water and wastewater systems and treatment plants for municipalities and industries. We work collaboratively to find the best solutions to optimize project needs, prioritizing public health and environmental stewardship for our communities.

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- Site Piping
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- Equipment Installation
- Process Mechanical
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WATERJAM WORKSHOPS

FULL-DAY WORKSHOPS – $120
HALF-DAY WORKSHOPS – $65

Laboratory Practices Committee Workshop: Wave of the Future

When: Monday, September 9, 2024 | 8:30 a.m. - 4:30 p.m.
Presented by the VWEA | VA AWWA Laboratory Practices Committee.

This workshop will provide information on upcoming concerns for Drinking Water and Wastewater laboratories as well as the Environmental community. Our workshop will focus on topics like "How to build and maintain a cohesive and productive team", Emerging Contaminants", "Updates on Environmental and Regulatory changes", and "Areas for Quality Improvement".

A Decade of ENR: Current Strategies and Future Outlook

When: Monday, September 9, 2024 | 8:30 a.m. - 4:30 p.m.
Presented by the VWEA Education Committee.

This year's workshop will provide a historical perspective of ENR and its impact on utilities and the larger wastewater industry as well as technological advancements, process optimization, and digital solutions for improving process controls. The program will also touch on the environmental and ecological impacts of ENR and the nutrient trading program and regulatory outlook. The workshop will focus on how ENR was implemented at facilities throughout the Chesapeake Bay, lessons learned from a decade of operation in ENR mode, impacts of investments in ENR, new optimization approaches, and potential future regulatory outlook.

Fats, Oils, and Grease Workshop

When: Monday, September 9, 2024 | 8:30 a.m. - 4:30 p.m.
Presented by the Industrial Waste & Pretreatment Committee

The Industrial Waste & Pretreatment Committee is hosting a Fats, Oils and Grease (FOG) Workshop on the latest developments for FOG Program Management. This is an excellent opportunity to learn and network with municipal managers, supervisors, engineers, technicians, consultants, and anyone interested in best practices for managing FOG. Sessions span topics such as elements of a FOG program, grease interceptor sizing, educational marketing and more. A World Café Session will be conducted to ensure all participants are given the opportunity to share experiences and network.

Virginia Utility CIP Forum

When: Monday, September 9, 2024 | 8:30 a.m. - 4:30 p.m.
Presented by the VA AWWA Membership Committee.

Would you like to keep up-to-date on Utility Industry's upcoming CIP projects? Attend our one-day workshop at JAM and gain valuable insights that can help with your marketing strategies. You'll learn about future annual service and project-specific contracts, gain inside information about upcoming capital improvement design and construction projects. Our workshop will cover the key people, projects, and budgets that impact our industry.

This annual event showcases municipalities across the state of Virginia. Here, you can target potential new clients, initiate discussions with existing clients about upcoming pursuits, and understand the owner's selection process. You'll receive a briefing on how to do business with each entity and even have direct access to ask questions and get answers.

Past participants include:

- Charles City County Public Works Department
- Chesterfield County Department of Utilities
- City of Virginia Beach Public Utilities
- City of Virginia Beach Public Works
- Fairfax Water
- Frederick County Sanitation Authority
- HRSD
- James City Service Authority
- Loudoun Water
- Newport News Waterworks
- Norfolk Department of Utilities
- Prince William County Service Authority
- Rivanna Water and Sewer Authority
- Spotsylvania County Department of Utilities
- Town of Clarksville, VA
- Town of Leesburg, VA

Rate Setting 101

When: Monday, September 9, 2024 | 8:30 a.m. - 12 noon
Presented by the VWEA | VA AWWA Utility Management Committee.

This half-day workshop will provide an overview of the financial planning and rate setting process for utilities. It will cover how to prioritize objectives, establishing a financial plan, calculating cost-justified rates, and communicating results to stakeholders. The workshop will be approximately four hours and will include discussion and interactive components. Following introductions, the workshop will be broken into four 50-minute blocks, based on the following key topics:

- **Pricing Objectives** – includes an interactive exercise for participants to vote on their top pricing objectives for a fictional utility.
- **Financial Planning** – includes a demonstration of a financial model and Q&A with participants, including an overview of model inputs, calculations, and results.
- **Cost of Service** – participants will learn how prioritized pricing objectives interact with cost-of-service principles, resulting in allocations of cost to various utility functions, such as supply, treatment, and meters.
- **Stakeholder Communication** – communicating the need for rate increases to elected officials and the public is a key component of any rate study. This section focuses on strategies for communicating rate increases, including data visualizations, storytelling, and customer outreach.

By the end of the workshop, participants will gain an understanding of rate setting principles, and how to apply them to real-life financial planning.

Courageous Conversations: How to Talk about Belonging and Inclusion at Work

When: Monday, September 9, 2024 | 8:30 a.m. - 12 noon
Presented by the VWEA DEI Committee.

Have you ever wanted to ask someone a question but were afraid you'd offend or upset them? Do you want to know why the difference between equity and equality even matters? Do you hear people talking about "inclusive workplace" and wonder what it all means? Not sure how to answer your employee's question about what they should and shouldn't say related to diversity and inclusion?

Join us at the Courageous Conversations workshop for a one-stop learning session focused on diversity, equity, and inclusion (DEI) that will help you with all these and more! This workshop features two unique segments:

- **DEI Q&A:** This panel discussion will answer all your DEI questions in a safe, non-judgmental environment so you can openly ask the questions you've had or been asked. This welcoming and understanding panel will answer each question and offer help in navigating DEI questions in your own workplace. You can submit questions ahead of the workshop to an anonymous form or pose your question live during the workshop.
- **Creating an Inclusive Workplace:** A series of table talks aimed at helping you understand small, important ways you can create a more inclusive work environment. Creating an inclusive workplace improves employee satisfaction and builds trust and commitment within work groups. These table talks are designed to demonstrate small actions you can take to make a big, positive impact in your workplace.

This two-part workshop is a great way to open the discussion about DEI in your workplace and can show you how to begin DEI work without tons of money, energy, or resources. Building an inclusive workplace starts with you.

Planning and Implementation of an Effective Bioenergy Program – A Review of the Challenges, Opportunities and Effective Strategies

When: Monday, September 09, 2024 | 1:00 - 4:30 p.m.
Presented by the Sustainable Utilities Committee.

Before undertaking a major biogas project at a wastewater treatment or other resource recovery facility, it's essential to consider various life cycle concepts to ensure the project's long-term sustainability. During this workshop, we will explore various topics with utility and industry experts based on their recent experiences on projects in Virginia. Topics to be covered will be the following: Pre-planning analysis, making the business case, regulatory compliance and permitting, funding opportunities, technology evaluations, starting up the facility, and operating/maintaining the facility. We are planning for five speakers to navigate through these topics with us and one interactive activity.

Bridging the Gap Between LCRR and LCRI

When: Monday, September 09, 2024 | 1:00 - 4:30 p.m.
Presented by the VA AWWA Drinking Water Quality and Research Committee.

The recently published Lead and Copper Rule Improvements (LCRI) propose significant enhancements to the existing Lead and Copper Rule Revisions (LCRR). With the LCRR compliance date less than a month away, utilities will now need to consider the impacts of LCRI as they prepare for LCRR compliance. The workshop aims to discuss regulatory requirements for the LCRI to water utilities and provide water utility managers with effective tools and some recommended next steps to help prepare for the LCRI. The workshop will also include some case studies on lessons learned from water utilities from their ongoing efforts to develop service line material inventory and other tasks as a proactive measure to comply with the LCRR. The workshop will focus on perspectives from key stakeholders including utilities, regulators, consulting engineers, public health officials, and the public. The workshop will include a stakeholder roundtable discussion on challenges related to lead in water.

Cybersecurity Overview and Cybersecurity Incident Response Plan Workshop

When: Monday, September 09, 2024 | 1:00 - 4:30 p.m.
Presented by the VA AWWA | VWEA Emergency Preparedness & Security Committee.

This interactive workshop will provide attendees with important cybersecurity information including resources for cybersecurity assessments, technical assistance, planning, training, response, and funding.

Upon arrival for this workshop, attendees will be given a simple eight question self-assessment which includes the Top Cyber Actions for Security Water Systems published by CISA, EPA, and FBI.

During the breakout portion of the workshop, attendees will be grouped based on their cyber maturity and/or awareness, derived from the results of their self-assessment.

U.S. EPA has developed new Cybersecurity Incident Response templates for each stage of cyber maturity. Attendees will be paired with facilitators to simulate development of an Incident Response Plan using the template that matches their self-assessed cyber maturity-level. A hotwash session will conclude the workshop where attendees will have the opportunity to share lessons learned and discuss a path forward through a Q&A across cybersecurity maturity/awareness levels.

Raining Awareness: Empowering Communities Through Stormwater Outreach

When: Thursday, September 12, 2024 | 12 noon - 4:30 p.m.
Presented by the VWEA Stormwater Committee.

Join the VWEA Stormwater Workshop for an interactive session on empowering communities through effective stormwater outreach initiatives. In this session, we will delve into practical strategies and tools for engaging with communities to facilitate a better understanding of stormwater management challenges and obtain input on solutions. By the end of the workshop, attendees will gain practical insights and actionable steps to implement impactful outreach programs in their own communities. Don't miss this opportunity to learn how to empower your community towards a more sustainable and resilient future.

CONCURRENT TECHNICAL SESSIONS

LEGEND
Wastewater Credit | Management Credit | Water Credit

Tuesday, September 10 | 1:30 PM - 2:00 PM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 1: Collaborative Project Delivery - Linear		How Virginia DEQ helped turn a 101,000 LF FM into a 142,000 LF Design Build Force Main, Successfully	Daniel Buckley, Garney Construction Company
SESSION 2: Biosolids and Solids Handling I		Coagulant Dosing Prior to Dewatering for the Control of rDON and Ortho-P in THP-AD Filtrate	Yitao Li, Virginia Tech
SESSION 3: Wastewater Treatment I		Lessons Learned from Demonstrating Full-Scale Partial Nitrification Denitrification Anammox at the Fairfax County NCPCP	Gregory Pace, Hazen and Sawyer
SESSION 4: Design and Construction I		Risk Mitigation Strategies Lead to Three Successful Trenchless Crossings	Mike Gaffney, RK&K
SESSION 5: Resilient and Reliable Water Treatment Infrastructure		Design Challenges for Spotsylvania County's Motts Run WTP Expansion and Rehabilitation	Brandon Flint, CDM Smith
SESSION 6: One Water		Conceptualizing a Regional GAC Reactivation Facility at HRSD	Christina Alito, HDR
SESSION 7: Collection and Interceptor Systems I		The Dollars and Sense for Optimizing O&M Process Leveraging Smart Technology - Multiple Case Studies	Jay Boyd, ADS Environmental Services
SESSION 8: Small Communities		Small Communities Matter – HRSD's Rrecent Design Build Success on Virginia's Eastern Shore	Alan Edwards, AECOM
SESSION 9: Regulatory Issues		Improving Public Health through Creative Solutions	Rosemary Green, City of Richmond, DPU
SESSION 10: Technology Forum		TBD: See WaterJAM Website for Updates	TBD See WaterJAM Website for Updates

Tuesday, September 10 | 2:00 PM - 2:30 PM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 1: Collaborative Project Delivery - Linear		Planning, Designing and Constructing a Mile Long HDD under the Newport News Shipping Channel to Save $10M	David Sackett, Brierley Associates Corporation
SESSION 2: Biosolids and Solids Handling I		Emerging Contaminants (PFAS and PPCP) in Biosolids	DJ Wacker, Brown & Caldwell
SESSION 3: Wastewater Treatment I		PFAS in Wastewater – From Research to Reality	Samir Mathur, CDM Smith
SESSION 4: Design and Construction I		Complex Planning and Permitting of a 5-Mile Large Diameter Underwater Force Main Crossing the James River	David Steele, AECOM
SESSION 5: Resilient and Reliable Water Treatment Infrastructure		Taste and Odor (T&O) Issues in Your Source Water? – Unleash the Power of Ozone!	Mike Nicholson, City of Manassas
SESSION 6: One Water		Carbon-Based Advanced Treatment brings (Direct) Potable Reuse to the East	Eva Steinle-Darling, Carollo Engineers
SESSION 7: Collection and Interceptor Systems I		Critical Thinking and Swift Mitigation in Saving a Century Old Masonry Trunk Sewer in Washington DC	Renni Zhao, DC Water
SESSION 8: Small Communities		I'm a Small, Lonesome System and I Need Repair, I Don't Have a Whole Village to Help Me, So How Don't I Fall into Despair?	Anna Kazasi, Virginia American Water
SESSION 9: Regulatory Issues		Implementation of Lead Testing and Building Water Quality Management in Schools	Ahsan Ullah, AH Engineering Consultants
SESSION 10: Technology Forum		TBD: See WaterJAM Website for Updates	TBD: See WaterJAM Website for Updates

Tuesday, September 10 | 2:30 PM - 3:00 PM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 1: Collaborative Project Delivery - Linear		Tug of War: Engineering vs. Operations	Eddie Abisaab, HRSD
SESSION 2: Biosolids and Solids Handling I		Solutions to Steam Production: A Review of Boiler Systems at Wastewater Facilities Implementing Thermal Hydrolysis	Rafael Iboleon, Stantec
SESSION 3: Wastewater Treatment I		A PFAS Perspective – Laboratory, Landfill Leachate, and Biosolids	Gary Hunter, Black & Veatch Corporation
SESSION 4: Design and Construction I		Innovative Ways to Address Supply Chain Bottlenecks: Strategies to Maintain Construction Schedules	Jay Vaghani, Prince William County Service Authority
SESSION 5: Resilient and Reliable Water Treatment Infrastructure		Leveraging BAC to Remove HAA in Drinking Water – Innovative DBP Treatment Pilot Testing to Supplement Charles County's Water Supply	Meric Selbes, Hazen and Sawyer
SESSION 6: One Water		Fairfax County's Wastewater Reuse System: Past, Present, and Future	Katherine Sager, Fairfax County; William Barrack, Fairfax County
SESSION 7: Collection and Interceptor Systems I		Physical Modeling of a Unique Wetwell Design – Fairfax County's Tysons West Pump Station	Kraig Schenkelberg, CDM Smith
SESSION 8: Small Communities		Mo' Money, Mo' Problems? No Biggie! Avoiding Grant Funding Pitfalls	Jamie Weist, Kimley-Horn and Associates, Inc.
SESSION 9: Regulatory Issues		Just When You Thought PFAS Could Not Get Any Weirder – Here Comes the Dormant Commerce Clause of the Constitution	Patrick Bradley, Michael Baker International
SESSION 10: Technology Forum		TBD: See WaterJAM Website for Updates	TBD: See WaterJAM Website for Updates

Tuesday, September 10 | 4:00 PM - 4:30 PM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 1: Collaborative Project Delivery - Linear		Soooo...How Did Your First CMAR Go?	Jessica Hou, Gannett Fleming
SESSION 2: Biosolids and Solids Handling I		Biosolids Gasification and Pyrolysis – Lessons Learned from Early Adopters	Jay Surti, GHD, Inc.
SESSION 3: Wastewater Treatment I		Electrochemical Destruction of PFAS Compounds in Waste Streams	Jordan Poffenberger, Aclarity
SESSION 4: Design and Construction I		HRSD WWTP Primary Clarifier Influent & Effluent Pipe Rehabilitation	Anna Pridmore, Structural Technologies
SESSION 5: Resilient and Reliable Water Treatment Infrastructure		108-year-old Montebello Water Filtration Plant Prioritizes Resiliency and Infrastructure Upgrades to Meet Demand of the Next Hundred Years!	Jeffrey Thompson, Whitman, Requardt and Associates, LLP
SESSION 6: One Water		Expanding the Utility's Role in Local Communities; Innovation as an Anchor Institution	Miriam Hacker, The Water Research Foundation
SESSION 7: Collection and Interceptor Systems I		Explaining H2S Production in the Collection System by Using Advanced Data Analytics and Machine Learning, Case Study the City of Dayton, OH	Javad Roostaei, Hazen and Sawyer
SESSION 8: Small Communities		All Aid on Deck for Community Waterworks	Ha Dao, CHA Consulting
SESSION 9: Regulatory Issues		Non-Lead Certification Strategies for Systems with No Known Lead Services Lines	John Millspaugh, Arcadis
SESSION 10: Technology Forum		TBD: See WaterJAM Website for Updates	TBD: See WaterJAM Website for Updates

Tuesday, September 10 | 4:30 PM - 5:00 PM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 1: Collaborative Project Delivery - Linear		Managing the Impacts of COVID-19 and Inflation to Successfully Deliver AlexRenew's CSO Tunnel Project	Priyanka Saha, Brown and Caldwell
SESSION 2: Biosolids and Solids Handling I		Comparing Destruction Efficiencies of Subcritical and Supercritical Water Oxidation for the Destruction of PFAS and Contaminants of Emerging Concern	Sudhakar Viswanathan, 374Water
SESSION 3: Wastewater Treatment I		New Advances in MBR Application: Ultra-low Phosphorus Limit Case Study	Susan Danzl, Short Elliott Hendrickson, Inc
SESSION 4: Design and Construction I		Into the Vortex: Engineering the Future of Grit Removal	Lars Augustin, Gannett Fleming Engineers and Architects, P.C.
SESSION 5: Resilient and Reliable Water Treatment Infrastructure		No One Size Fits All for PFAS Removal: Exploring Challenges Associated with Surface Water Treatment Through Case Studies	Eric Marshall, Kennedy/Jenks Consultants, Inc.
SESSION 6: One Water		Integrated Site Improvements to Address Algal Blooms at a Major Recreation Lake	Christina Hughes, Ramboll
SESSION 7: Collection and Interceptor Systems I		Part 2 – Small Town – Mega Project – Financial and Technical Challenges	Nitant Desai, Bowman Consulting Group
SESSION 8: Small Communities		Rural Revitalization: Bringing the Rural Town of White Stone Comprehensive Solution for Collection, Treatment and Disposal of Failing Septic Systems	Tim Wilson, Bowman Consulting Group
SESSION 9: Regulatory Issues		A Lead and Copper Rule Service Line Inventory Through a Digital Approach: A Case Study from Arlington County, Virginia	Chakavak Kamran, CDM Smith, Inc.
SESSION 10: Technology Forum		TBD See WaterJAM Website for Updates	TBD See WaterJAM Website for Updates

Wednesday, September 11 | 8:30 AM - 9:00 AM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 11: Wastewater Treatment II		Performic Acid - The Basics of an Alternative Wastewater Disinfectant	Jake Van Geffen, CDM Smith
SESSION 12: Collaborative Delivery - Vertical		It's Your First Collaborative Delivery Project, Don't Freak Out!	Alan Parent, PC Construction Company
SESSION 13: Asset Management I		Chasing Efficiency: The Path to Predictive Maintenance in Wastewater Treatment Through Continuous Vibration and Temperature Monitoring	Amber Di Somma, HRSD
SESSION 14: Sustainability and Resiliency I		Cyber Resiliency in the Modern Utility	Jonathon Sprague, HDR
SESSION 15: Treatment Challenges		Eliminating Water Discoloration Events by Optimizing Manganese Control	Willliam Knocke, Virginia Tech - CEE Department
SESSION 16: Planning and Modeling		Beyond Class A Cake: How Raleigh Water Developed a Trigger-based Biosolids Master Plan to Prepare for an Uncertain Future	Sebastian Smoot, HDR
SESSION 17: Transmission & Distribution Systems		How to Predict the Uncertain: DC Water's Use of Monte Carlo Analysis to Quantify Lead Service Lines in DC	Matthew Young, CDM Smith
SESSION 18: System Operations and Maintenance		Using Digital Twins to Manage the Complexities of HRSD's Pressure Reducing Stations	Michael Bernard, Specific Energy
SESSION 19: Instrumentation and Process Control		Using Machine Learning to Optimize Nutrient Loading with a Hybrid Controller	Jacob Oney, AlexRenew
SESSION 20: Workforce Development		Employee Recruitment, Engagement, and Retention through Purposeful Work Force Development Programs	Jonathan Wright, City of Virginia Beach

Wednesday, September 11 | 9:00 AM - 9:30 AM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 11: Wastewater Treatment II		Adapting to High Airflow: Retrofitting Activated Sludge Systems with Low-Pressure Membrane Diffusers	Ladan Holakoo, Jacobs
SESSION 12: Collaborative Delivery - Vertical		Does CMAR Deliver on Small Projects? An Analysis of Advantages and Disadvantages	Betsy Baldwin, Black & Veatch
SESSION 13: Asset Management I		Moving Up a Level: Journey to Update a Strategic Asset Management Plan	Ahmet Ozman, Black & Veatch Corp
SESSION 14: Sustainability and Resiliency I		Preparing Your Water Utility for a Lower Carbon Future	Nicolle Boulay, Stantec
SESSION 15: Treatment Challenges		Occurrence and Removal of Microplastics Across Drinking Water Treatment Facilities in North America	Charles Balkenbusch, University of Toronto
SESSION 16: Planning and Modeling		A Novel Simulation Tool for Predicting Adsorption Media Usage with Multiple Water Quality Targets	Thomas Dziura, Jacobs
SESSION 17: Transmission & Distribution Systems		Benchmarking Leak Detection in the Digital Age: A Comparative Analysis of Methods in 2023	Paul Gagliardo, Gagliacqua Consulting
SESSION 18: System Operations and Maintenance		Things That Happen To Membranes: An Operations Perspective	Allen Daniels, Avista
SESSION 19: Instrumentation and Process Control		Optimization of Chemical Disinfectant Dose with Application of Integrated Concentration Time (ICT) Dose Pacing in Three Water Reclamation Facilities	Baris Kaymak, CDM Smith
SESSION 20: Workforce Development		Employee Engagement and Recognition: Giving Your People a Voice	Patra Brodie, City of Richmond - Dept of Public Utilities

Wednesday, September 11 | 9:30 AM - 10:00 AM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 11: Wastewater Treatment II		New Methods for Assessing Grit Accumulation in Wastewater Treatment Tanks Featuring Case Studies from Lee County an Jacksonville, Florida	Megan Ross, SediVision
SESSION 12: Collaborative Delivery - Vertical		Owner Benefits of Collaborative Commissioning in a Progressive Design-Build	Laura Simmers, PC Construction
SESSION 13: Asset Management I		Optimizing Business Process Workflows as Part of Your Asset Management Strategy	Kirstin Platt, Newport News Waterworks
SESSION 14: Sustainability and Resiliency I		A Return on Renewables: The First Biogas to Pipeline Project in Virginia	Paul Bassette, Carollo Engineers
SESSION 15: Treatment Challenges		Planning and Piloting a New Membrane Filtration Operating Strategy at the Lake Gaston WTP	Andrew Newbold, Hazen and Sawyer
SESSION 16: Planning and Modeling		Integrated Reclaimed Water System Planning in Stafford County, Virginia	Christopher Edwards, Stafford County
SESSION 17: Transmission & Distribution Systems		CIPP Lining of Water Mains – A Cost-Effective Solution	Khalid Qadwai, EBA Engineering, Inc.
SESSION 18: System Operations and Maintenance		Reduce Non-Revenue Water with Cost Effective Leak and Pressure Data	Chris Montrose, Kennedy Valve
SESSION 19: Instrumentation and Process Control		Inventive PLC Program Improves Aeration Efficiency and Allows ABAC Control	David Quast, SEH
SESSION 20: Workforce Development		It's Your Career – Take the Driver's Seat!	Liliana Maldonado, Independent Consultancy

Wednesday, September 11 | 11:00 AM - 11:30 AM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 11: Wastewater Treatment II		A Partnership for Potable Reuse: Achieving 1,4-Dioxane Removal through Cometabolic Biological Pretreatment	Micaela Griffin, HRSD
SESSION 12: Collaborative Delivery - Vertical		Incorporating Innovation in the Nansemond Treatment Plant Advanced Nutrient Reduction Improvements Design-Build Project	Lauren Zuravnsky, HRSD
SESSION 13: Asset Management I		Amping Up Your GIS Environment to Support More Effective Asset Management and Utility Operations	Jayson Brennen, CDM Smith
SESSION 14: Sustainability and Resiliency I		Modernizing Facility Planning: Readying Water Treatment Plants on a 50-year Planning Horizon	Quirien Muylwyk, AECOM
SESSION 15: Treatment Challenges		Data Analytics on Fate and Transport of PFAS in Surface Waters	Bethany Parker, Arcadis
SESSION 16: Planning and Modeling		Life Happens when You're Busy Planning – Leveraging Decision-Making Tools to Implement Dynamic Planning	Eric Harold, Carollo Engineers
SESSION 17: Transmission & Distribution Systems		From Rural to Revival – Revitalizing a Community Through a Major Potable Supply and Distribution System	Jomar Pablo, Bowman Consulting
SESSION 18: System Operations and Maintenance		Dredging Diaries: Sediment Showdown in Richmond Water Treatment Plant Feeder Channel	Nick Freedlander, Greeley and Hansen, a TYLin Company
SESSION 19: Instrumentation and Process Control		An Instrument Calibration Program is Key to Quality Water Treatment	Charles Bartley, Chesapeake Calibration Services
SESSION 20: Workforce Development		Automation Engineers in the Pipeline: The Making of an Automation Professional	Giselle Villar, CDM Smith

Wednesday, September 11 | 11:30 AM - 12:00 PM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 11: Wastewater Treatment II		The Case for Process Intensification with Aerobic Granular Sludge	Paula Dorn, Aqua-Aerobic Systems, Inc.
SESSION 12: Collaborative Delivery - Vertical		20 to 1 - How We Are Tackling 20 Construction Projects at Our Plant under One Progressive Design Build Project	Shannon Spence, Prince William County Service Authority
SESSION 13: Asset Management I		A Value Driven Integrated Planning Process for Collection Systems	Junaid Malik, Fairfax County Government
SESSION 14: Sustainability and Resiliency I		The New Normal for Natural Hazards: How Prepared Are You to Adapt?	Corie Sapp, Arcadis
SESSION 15: Treatment Challenges		Post-Treatment of Desalinated Water	Peter Pommerenk, AH Engineering Consultants
SESSION 16: Planning and Modeling		Automating BMP Grading & Routing with Python, GIS & HydroCAD for Compliance & Efficiency	Kabin Luitel, JMT, Inc.
SESSION 17: Transmission & Distribution Systems		Connection Inception: Connecting Water Systems in a Growing Municipality	Trey Harksen, Dewberry
SESSION 18: System Operations and Maintenance		MOM knows best. Virginia Beach's Successful Reduction of Reportable Sanitary Sewer Overflows.	Michael Vieira, City of Virginia Beach Public Utilities
SESSION 19: Instrumentation and Process Control		Do You Know Your Black Box? - Recognizing the Right Time to Start and Properly Plan for a PLC/SCADA System Upgrade	Mark Oborne, Dewberry
SESSION 20: Workforce Development		You Can't Afford Not to Build Connections	Megan Pittman, Bedford Regional Water Authority

Wednesday, September 11 | 1:30 PM - 2:00 PM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 21: Government Affairs		DEQ and VDH Priorities	Scott Morris DEQ; Dwayne Roadcap, VDH
SESSION 22: Utility Management		Envisioning a Better Beach: The City of Virginia Beach Department of Public Utilities' New Organizational Strategic Plan	Bob Montague, City of Virginia Beach Department of Public Utilities
SESSION 23: Design and Construction II		Controlled Trench Blasting at Druid Lake – How to Keep the Drinking Reservoir In-Service and Not Scare the Zoo Animals!	William Wagner, Whitman, Requardt and Associates, LLP
SESSION 24: Stormwater and Flood Mitigation Planning		Norfolk Coastal Storm Risk Management (CSRM) Project: Bridging the Gap	Matt Fanghella, City of Norfolk - City Manager's Office of Resilience
SESSION 25: All Things PFAS		Design, Cost, and First Year of Operation of the Nation's Largest Operating PFAS Treatment Facility	Jeff Thompson, Black & Veatch
SESSION 26: Biosolids and Solids Handling II		Lessons Learned from Startup & Commissioning of Renewable Natural Gas Export Facilities	Bryce Swillum, Stantec Consulting Services
SESSION 27: Collection and Interceptor Systems II		Highway to the Cadiz Zone: Maverick Approach to Repairing 80-Year-Old Interceptor Under IH-35 in Dallas	Erika Cooper, Carollo Engineers
SESSION 28: Condition Assessment		Advancing Facility Management with Customized Cloud-based Tools for Condition Assessment	Andrew Burton, Carollo Engineers
SESSION 29: Diversity, Equity and Inclusion		What's Allyship Got to Do With Business Outcomes?	Nicholas Robertson, Kimley-Horn
SESSION 30: Student Water Challenge		The winning teams of the Wastewater and Environmental categories of the 2024 VWEA Student Design Competition will give their presentations in preparation for representing Virginia at WEFTEC 2024. Immediately following, the teams in the 2024 VA AWWA Student Water Challenge will present the findings from their day's work on a water quality, treatment, or distribution problem. Winners will be announced at the Awards Banquet.	

Wednesday, September 11 | 2:00 PM - 2:30 PM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 21: Government Affairs		DEQ Water Permitting Program Update	Meghan Mayfield, DEQ
SESSION 22: Utility Management		Preparing for All Potential Outcomes: How HRSD Used Innovative Scenario Planning to Future-Proof its Organizational Strategic Plan	Jay Bernas, HRSD
SESSION 23: Design and Construction II		A Challenging Wastewater Treatment Plant Retrofit: From Zero Solids Treatment to Class B Production Through Innovative Design	Mary Sawitzki, Arcadis
SESSION 24: Stormwater and Flood Mitigation Planning		Predicting Interior Flooding: Building an Integrated Flood Model for Washington, DC	Christine Estes, AECOM
SESSION 25: All Things PFAS		Closing the Loop on PFAS: An Overview of PFAS Destruction Technologies to Expand PFAS Mitigation Efforts in Water and Wastewater	Donald Ryan, Stantec
SESSION 26: Biosolids and Solids Handling II		Ultra-High Temperature Gasification for Biosolids Treatment, PFAS Destruction, & Hydrogen Production	Jim Henderson, Heartland Water Technology
SESSION 27: Collection and Interceptor Systems II		Can You Dig It? Chimborazo Sewer and the Chamber of Secrets	Brandon Cooper, Greeley and Hansen | A TYLin Company
SESSION 28: Condition Assessment		A Sweet Suite Deal: Saving Millions in Replacement Using a Suite of Assessment Tools	Jason Stegemann, Hazen and Sawyer
SESSION 29: Diversity, Equity and Inclusion		Equitable Infrastructure Investments for Equitable Outcome – DC Water's Experience	Getachew Melsew, DC Water
SESSION 30: Student Water Challenge		The winning teams of the Wastewater and Environmental categories of the 2024 VWEA Student Design Competition will give their presentations in preparation for representing Virginia at WEFTEC 2024. Immediately following, the teams in the 2024 VA AWWA Student Water Challenge will present the findings from their day's work on a water quality, treatment, or distribution problem. Winners will be announced at the Awards Banquet.	

Wednesday, September 11 | 2:30 PM - 3:00 PM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 21: Government Affairs		PFAS Update	Baily Davis, VDH
SESSION 22: Utility Management		Leveraging Change to Create Extraordinary Teams – A YP and SP Perspective	Pam Kenel, Loudoun Water; Kelsey Kenel, HDR
SESSION 23: Design and Construction II		Phased Construction for Expedited Gravity Thickener Rehabilitation	Chris Painter, HDR
SESSION 24: Stormwater and Flood Mitigation Planning		Arlington County's Flood Risk Assessment and Management Plan – Integrating Climate Resilience and Social Vulnerability with Flood Mitigation	Laurens Van Der Tak, Jacobs
SESSION 25: All Things PFAS		Separation and Destruction of PFAS by A High Pressure Membrane and UV-Sulfite Treatment Train – A Pilot-Scale Field Demonstration	Charlie Liu, Kennedy/Jenks Consultants, Inc.
SESSION 26: Biosolids and Solids Handling II		Customized Advanced Solids Planning for Small Facilities: Finding a Proactive Balance	Julianne Amenta, Hazen and Sawyer
SESSION 27: Collection and Interceptor Systems II		CIPP-UV Cure to the Rescue: Stafford County Gains First Hand Experience on UV-Cure of 24-inch Sewer Under I-95	Rajbarath Panneerselvam, CDM Smith
SESSION 28: Condition Assessment		Cracks, Shrunken Windowsills, Water Intrusion – It's Time	Katterinne Fleming, Kennedy/Jenks Consultants, Inc.
SESSION 29: Diversity, Equity and Inclusion		Building the Equity Atlas: A Case Study with JXN Water	Ameerah Palacios, HDR
SESSION 30: Student Water Challenge		The winning teams of the Wastewater and Environmental categories of the 2024 VWEA Student Design Competition will give their presentations in preparation for representing Virginia at WEFTEC 2024. Immediately following, the teams in the 2024 VA AWWA Student Water Challenge will present the findings from their day's work on a water quality, treatment, or distribution problem. Winners will be announced at the Awards Banquet.	

Wednesday, September 11 | 4:00 PM - 4:30 PM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 21: Government Affairs		Lead and Copper Rule Revision and Rule Improvements Update	Bob Edelman, VDH
SESSION 22: Utility Management		Setting Expectations: Providing Flexible Project Guidance to Align the Management of Projects Across an Organization	Russ Dalton, Hazen and Sawyer
SESSION 23: Design and Construction II		Plant-wide Expansion at the Massaponax WWTP – Planning, Design, and Construction Through a Collaborative Lens	Allen Shue, Ramboll
SESSION 24: Stormwater and Flood Mitigation Planning		Human Exposure to Stormwater Pollution Given Environmental Justice Indexes: A Case Study of Virginia, Maryland, and District of Colombia	Mehdi Ketabchy, Gannett Fleming, Inc.
SESSION 25: All Things PFAS		Evaluating the Presence of PFAS and Gen-X Chemicals in a Raw Water Source and Developing a Long-Term Strategy for a 12 MGD Water Treatment Plant	Mark Notheis, Jacobs
SESSION 26: Biosolids and Solids Handling II		An Investigation of PFAS in an Island Community System	Peter Loomis, CDM Smith
SESSION 27: Collection and Interceptor Systems II		How Many Different Pipe Materials Could One Project Need?	Matthew Alcock, Stantec
SESSION 28: Condition Assessment		Comprehensive Condition Assessment Improves Reliability of a 150-Year-Old Critical Water Transmission Main	Nirav Shah, RK&K
SESSION 29: Diversity, Equity and Inclusion		Adapting to Change: A Staff Augmentation Success Story of a Local Stormwater Utility	Erin Milligan, Greeley and Hansen
SESSION 30: Student Water Challenge		The winning teams of the Wastewater and Environmental categories of the 2024 VWEA Student Design Competition will give their presentations in preparation for representing Virginia at WEFTEC 2024. Immediately following, the teams in the 2024 VA AWWA Student Water Challenge will present the findings from their day's work on a water quality, treatment, or distribution problem. Winners will be announced at the Awards Banquet.	

Wednesday, September 11 | 4:30 PM - 5:00 PM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 21: Government Affairs		DEQ Water Planning Program Update	Elizabeth McKercher, DEQ
SESSION 22: Utility Management		The Master Schedule: A Glimpse into the Future	Sandra Hernando Villanueva, Prince William County Service Authority
SESSION 23: Design and Construction II		Shutdowns and Tie-ins for Incorporating a new 360 MGD Headworks at ALCOSAN. How Did We Do, and Where Do We Head From Here?	Isaac Katz, Whitman, Requardt and Associates, LLP
SESSION 24: Stormwater and Flood Mitigation Planning		MS4 Stormwater Intelligence: Compliance at Your Fingertips	Erin Hawkins, City of Lynchburg
SESSION 25: All Things PFAS		PFAS Removal in AWT: Using Rapid Small Scale Column Testing (RSSCT) to Accelerate Full Scale GAC Design	Ramola Vaidya, HDR
SESSION 26: Biosolids and Solids Handling II		Co-Digestion of Organic Wastes in Anaerobic Digesters: Potential Benefits and Lessons Learned from Multiple Studies	Ganesh Rajagopalan, AECOM
SESSION 27: Collection and Interceptor Systems II		Navigating Tight Milestones, Supply Chain Issues, and Multiple Stakeholders – Wastewater Pump Station and Pipeline Lessons Learned in Historic Langley	Lizzy Merin, Fairfax County Department of Public Works and Environmental Services
SESSION 28: Condition Assessment		Use of p-CAT Infinity for Prioritized Water Transmission Main Condition Assessment	Steven Cook, City of Virginia Beach
SESSION 29: Diversity, Equity and Inclusion		Development of a Supplier Diversity Program	Rachel Schwall, Stantec
SESSION 30: Student Water Challenge		The winning teams of the Wastewater and Environmental categories of the 2024 VWEA Student Design Competition will give their presentations in preparation for representing Virginia at WEFTEC 2024. Immediately following, the teams in the 2024 VA AWWA Student Water Challenge will present the findings from their day's work on a water quality, treatment, or distribution problem. Winners will be announced at the Awards Banquet.	

Thursday, September 12 | 8:30 AM - 9:00 AM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 31: YP Paper Session		No Mulligans on this Scorecard! Understanding the Owner's Perspective on Consultant Proposal Scoring	Matt Wisniewski, Greeley and Hansen
SESSION 32: Utility Management - Technology		Performance Reporting through Enhanced Collaboration, Transformation & Technology Adoption	Aniruddha Guha, Prince William County Service Authority
SESSION 33: Wastewater Treatment III		Sludge Settleability Improvements Associated With Full-Scale Densification of BNR Activated Sludge	Nicolas Tenorio, CDM Smith
SESSION 34: Design and Construction III		Navigating the Rapids: Overcoming Obstacles in the Rehabilitation of a 90-inch Sewer	Jeff Farnsworth, Kimley-Horn
SESSION 35: Asset Management II		Water Main Likelihood of Failure: Machine Learning to Identify Predictive Criteria	Paul Wilson, Hazen and Sawyer
SESSION 36: Treatment and Compliance - Informed Monitoring and Testing		A Beginner's Guide on Developing a Microplastics Monitoring Program – Lessons Learned from California Mandates	Chris Jiang, AECOM
SESSION 37: Stormwater Design		Innovative Stormwater Solutions: Navigating Challenges for a High-Profile Rail Project	Sura Al Shami, Jacobs
SESSION 38: Sustainability and Resiliency II		Advancing Pre-Disaster Resilient Norfolk Through Coastal Storm Risk Management	Kyle Spencer, City of Norfolk
SESSION 39: Public Outreach and Education		Creating a Community Connection: DC Water's Comprehensive Approach to LSLR Outreach	Amy Kennedy, Lead Free Group/ Consultant to DC Water
SESSION 40: Nutrient Resource Recovery and Water Resources		HRSD's Journey from Pilot to Full-Scale Implementation of Mainstream Partial Denitrification/Anammox (PdNA) IFAS	Megan Bachmann, Virginia Tech/HRSD

Thursday, September 12 | 9:00 AM - 9:30 AM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 31: YP Paper Session		Innovations in One Water: A Novel UV-LED Reactor for Indirect Potable Reuse	Tara Randall, HDR
SESSION 32: Utility Management - Technology		State Approaches to Cybersecurity	Kevin Letterly, Association of State Drinking Water Administrators (ASDWA)
SESSION 33: Wastewater Treatment III		Biological Phosphorus Removal Benefits from Low Dissolved Oxygen Operation	Haley Morgan, HRSD
SESSION 34: Design and Construction III		Climate Adaptation and Preparing for Long-Term Resilience	Kevin Smith, Ramboll
SESSION 35: Asset Management II		Leveraging an Aggressive Inspection Program and Predictive Modeling to Develop an LSL Inventory for Jackson	Brendan O'Brien, Stantec
SESSION 36: Treatment and Compliance - Informed Monitoring and Testing		A Peek in the Manual - Guidance for Orthophosphate Based Corrosion Inhibitor Treatment	Rusty Carvajal-Nigro, Hazen & Sawyer
SESSION 37: Stormwater Design		Nature had Different PLANS. A Stream Story.	Travis Davis, Arcadis
SESSION 38: Sustainability and Resiliency II		From Catastrophic Crisis to Resilient Renewal: Leveraging Innovation to Accelerate an Emergency Design & Construction of a Failed 48" Sewer Force Main	Abel Jacobson, Dewberry
SESSION 39: Public Outreach and Education		Getting the Word Out - Right-sizing Public Outreach and Leveraging Technology	Liz Sitter, GHD
SESSION 40: Nutrient Resource Recovery and Water Resources		How Low Can We Go? Successful Low DO Operations for Biological Nutrient Removal at Pomona WRF	Michelle Young, Carollo Engineers, Inc.

Thursday, September 12 | 9:30 AM - 10:00 AM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 31: YP Paper Session		Lights, Cameras, leakage! Looking for Inflow and Infiltration Through Improved In-Situ Manhole Leakage Tests	Hailey Sauvageau-Shlaffer, Brown and Caldwell
SESSION 32: Utility Management - Technology		Maintaining Your "Air Gapped" SCADA Network While Securely Sending Real-time Wonderware Data to a Wonderware Data Historian (Digital Twin)	Christian Hager, Fend Incorporated
SESSION 33: Wastewater Treatment III		Small Change, Big Impact: A Simpler Sustainable Design of Aeration Systems	Patrick Radabaugh, Dewberry
SESSION 34: Design and Construction III		Using BIM and Drone Photogrammetry on Active Jobsites	Zach Emerson, MEB
SESSION 35: Asset Management II		Connecting Crossings to CIP - Facilitating Communications, Planning, and Emergency Response Utilizing a Creek Crossing Inspection Program	Jennifer Howells, Fairfax County DPWES - Wastewater Collection Division (WCD)
SESSION 36: Treatment and Compliance - Informed Monitoring and Testing		How to Use Lead Scale Analyses to Inform Corrosion Control Treatment Decisions	Michael Sun, Cornwell Engineering Group
SESSION 37: Stormwater Design		Northstar Boulevard Stormwater Management Strategy	William Beveridge, Johnson, Mirmiran, & Thompson, Inc.
SESSION 38: Sustainability and Resiliency II		Philadelphia Water Department's Plan for Climate Change Readiness	Rina Dalal, CDM Smith;
SESSION 39: Public Outreach and Education		Leveraging Stakeholder Engagement and Outreach to Deliver Alexandria's Largest Infrastructure Project	Kelvin Coles, Brown and Caldwell
SESSION 40: Nutrient Resource Recovery and Water Resources		Let It Flow - A new Continuous Granular Sludge Process	Amit Kaldate, Tomorrow Water

Thursday, September 12 | 10:30 AM - 11:00 AM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 31: YP Paper Session		Microbial Adaptation to Low Dissolved Oxygen Biological Nutrient Removal	Lilian Mcintosh, HRSD
SESSION 32: Utility Management - Technology		Is Automated Metering Infrastructure (AMI) Worth the Investment?	Jen Cobb, Newport News Waterworks
SESSION 33: Wastewater Treatment III		Partial Denitrification Anammox (PdNA) in Mainstream Wastewater Treatment Offers Energy Saving and Improved Nitrogen Treatment	Sherri Caneer, World Water Works
SESSION 34: Design and Construction III		How to Collaboratively Solve Problems Between Owners, Contractors and Designers	Bryan Bedell, Haskell
SESSION 35: Asset Management II		Lean and Mean: Executing an Efficient Long-Term Water Main Replacement Program	Greg Prelewicz, Fairfax Water
SESSION 36: Treatment and Compliance - Informed Monitoring and Testing		The Nuts and Bolts of Adsorption Piloting for PFAS Treatment	Molly Mcmanus, Intuitech
SESSION 37: Stormwater Design		Ballston Pond Revitalization through Enhanced Design and Construction Planning	Erin Cox, RK&K
SESSION 38: Sustainability and Resiliency II		Making Resilience Easy - Compliance and Due Diligence	Cece Atkinson, Launch! Consulting, Inc.
SESSION 39: Public Outreach and Education		Water Chose You: Creating Real World Connections to the Water Industry For Students K-6	Mackenzie Rickard Gannett Fleming
SESSION 40: Nutrient Resource Recovery and Water Resources		A Comparison of DEQ Groundwater Model Parameters to Site-Specific Aquifer Tests: Implications for Groundwater Withdrawal Permitting in Virginia	Jason Early, Stantec

Thursday, September 12 | 11:00 AM - 11:30 AM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 31: YP Paper Session		Case Studies of Three Large Diameter Force Main Rehabilitation Projects Featuring Contractor Procurement Including Condition Assessment	Marina Doyle, RK&K
SESSION 32: Utility Management - Technology		Is Generative AI Ready to Replace Water Sector Engineers?	Michael Demko, Wade Trim; Ripley Raubenolt, Wade Trim
SESSION 33: Wastewater Treatment III		Fifty Down, Fifty to Go. Leveraging Tertiary Filtration Experiences of the Past When Designing for the Future	Andrew Freitas, Carollo Engineers; Danny Murphy, Carollo
SESSION 34: Design and Construction III		Everyone's Invited to the Party – The Importance of Early Design Phase Collaboration to Get the Best Possible Solution for All Stakeholders	Nina Kempic, CHA Consulting
SESSION 35: Asset Management II		Risk-based Pipeline Prioritization Model and Its Application in Developing Pipe Renewal Program and Capital Planning	Meredith Raetz, American Water
SESSION 36: Treatment and Compliance - Informed Monitoring and Testing		Rapid PFAS Testing With No Compromises: Direct Inject Analysis	JP Verheul, Enthalpy Analytical
SESSION 37: Stormwater Design		Question Everything, Learn Something: Evaluating Filter Fabric Wrapped Chamber System Mass Load Capacity and Longevity	Jacob Dorman, Contech ES
SESSION 38: Sustainability and Resiliency II		Collaborative Strategies for Envisioning the Service Authority's Vision	Tonia Wang, AECOM
SESSION 39: Public Outreach and Education		Green Infrastructure Co-Benefit Enhancement Through Community Engagement	Diana Teran, LimnoTech
SESSION 40: Nutrient Resource Recovery and Water Resources		Sustainable Water Supply for Data Centers: Practical Options	Rachel Schwaab, Ramboll

Thursday, September 12 | 11:30 AM - 12:00 PM

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 31: YP Paper Session		Upper Occoquan Service Authority Ozone/GAC	Brian Zuidervliet, CDM Smith
SESSION 32: Utility Management - Technology		Dynamic Water Systems - How Water and Wastewater Agencies are Applying Digital Transformation Strategies	Shawn Dent, Carollo Engineers
SESSION 33: Wastewater Treatment III		Help... Save my Headworks!	Jarus Cox, Source Technologies, LLC
SESSION 34: Design and Construction III		The Revolution in Pipeline Installation (AWWA M55)	Amster Howard, Private Consultant
SESSION 35: Asset Management II		Sewer Data Management and O&M Plan Optimization in the City of Baltimore's Office of Asset Management	Jim O'Dowd, AECOM
SESSION 36: Treatment and Compliance - Informed Monitoring and Testing		Cryptosporidium Inactivation with Ozone Using 6 CT Calculation Methods: Implications on Ozone System Design, Operation, and Bromide Formation	Christine Ngan, CDM Smith
SESSION 37: Stormwater Design		Partnerships for Sustainability: Through the Looking Glass - Predicting Future Stormwater Needs with Multiple Stakeholders	Chris Dewitt, VHB
SESSION 38: Sustainability and Resiliency II		Ready or Not, Artificial Intelligence is Here!	Gigi Karmous-Edwards, Karmous-Edwards Consulting
SESSION 39: Public Outreach and Education		Flushed with Excitement: Sharing the Wonder of Wastewater Treatment through Community Tours	Faith Oviawe, AlexRenew
SESSION 40: Nutrient Resource Recovery and Water Resources		Revising the Hydrogeologic Framework of the Virginia Coastal Plain to include the Crystalline Bedrock Aquifer. Factors and Data Gaps	Kenneth Bannister, KBJW

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ALTERNATES

The WaterJAM committee would like to thank the individuals identified below, who have agreed to present in the event a slated speaker is unable to attend.

Alternates

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 1: Collaborative Project Delivery - Linear		New to Progressive Design Build? Start with Three Projects for a $580M Wastewater Conveyance Upgrade	Mark Minkowski, Kennedy/Jenks Consultants, Inc.
SESSION 2: Biosolids and Solids Handling I		Polymer Evaluation for WAS Thickening	Barbara Ward, HDR
SESSION 3: Wastewater Treatment I		Leveraging Ozone-BAC Pretreatment to Improve PFAS Adsorption in Wastewater Effluent by GAC	Erica Wirski, Kennedy/Jenks Consultants, Inc.
SESSION 4: Design and Construction I		Getting the Salt Out - Indirect Potable Reuse Through Ground Water Discharge	Andrew Waddoups, Burns & McDonnell Engineering
SESSION 5: Resilient and Reliable Water Treatment Infrastructure		Transition Planning for Major Drinking Water Treatment and Distribution System Modifications	David Lee, AH Engineering Consultants
SESSION 6: One Water		Meeting Municipal and Industrial Water Supply and Quality Objectives with Reuse	Kelly Landry, Hazen and Sawyer
SESSION 7: Collection and Interceptor Systems I		Repairing History – DC Water's Experience Designing Rehabilitation of a 150-Year Old Sewer	Josh Crossen, Greeley and Hansen
SESSION 8: Small Communities		Just Say No to Nutrients: Avoiding Costly Expansions in Small Systems in the Chesapeake Bay Watershed	Doug Hudgins, CHA Consulting
SESSION 9: Regulatory Issues		Lessons from PFAS: Emerging Contaminants & Regulatory Readiness	Kenneth Sansone, SL Environmental Law Group, P.C.
SESSION 11: Wastewater Treatment II		Membrane Aerated Biofilm Reactor (MABR) Emerging Technology Data Review	Thomas Sichz, Fluence Corporation
SESSION 12: Collaborative Delivery - Vertical		Keys to Successful Delivery using Owner Direct Purchase	Tatiana Konstantis, Kimley-Horn
SESSION 13: Asset Management I		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
SESSION 14: Sustainability and Resiliency I		Developing an Actionable Stormwater Platform	Alex Carlson, Arcadis
SESSION 15: Treatment Challenges		Disinfection Byproduct Formation from Chlorocyanurate and Their Toxicity	Kadmiel Adusei, George Mason University
SESSION 16: Planning and Modeling		Use of CFD model simulations of structures and conveyance channels in support of the EAA A-2 Stormwater Treatment Area (STA)	Angel Retana, Brown and Caldwell
SESSION 17: Transmission & Distribution Systems		Neither Snow nor Rain nor Heat nor Gloom of Night Keeps our Utility Down! A Three-Part Approach for Ensuring Transmission System Emergency Preparedness	Marlee Franzen, Fairfax Water
SESSION 18: System Operations and Maintenance		Operational Improvements and Lessons Learned as a Result of Completing Chemical Feed System Replacement Projects In-House	Karlyn Owens, James City Service Authority
SESSION 19: Instrumentation and Process Control		Understanding the Importance Turbidity Measurement and Selecting the Right Technology for the Application	Rick Sherman, Lovibond
SESSION 20: Workforce Development		Fostering Professionalism in Water Agencies	Linda Burpeau, Water Otter
SESSION 22: Utility Management		Dodging the Regulatory Bullet	Gary Mccollum, Stafford County, Department of Capital Construction
SESSION 23: Design and Construction II		LiDAR Scanning for Asset Management and Capture of Institutional Knowledge at Treatment and Pumping Facilities	Tyler Breeding, CHA Consulting, Inc.
SESSION 24: Stormwater and Flood Mitigation Planning		Development of a Comprehensive Coastal Stormwater Asset Management Program	Kevin Slaven, Arcadis

Alternates

SESSION	CREDIT	PRESENTATION TITLE	PRESENTER(S)
SESSION 25: All Things PFAS	✓	Under Pressure: Efficiently Executing Your PFAS Pilot Program	Joe Nattress, CDM Smith
SESSION 26: Biosolids and Solids Handling II		Establishing Liquid Stream Operational Guidance for Commissioning and Long-term Operation of Bioenergy Systems	Milad Ebrahimi, WSSC Water
SESSION 27: Collection and Interceptor Systems II		All Hands on Deck! Tackling Lynchburg's Most Critical Sewer Areas	Asmita Anil Deshmukh, Rummel, Klepper & Kahl, LLP
SESSION 28: Condition Assessment		Are Metallic Pipes Forever Assets? A Decade of Inline Condition Assessment Data	S. Jeremiah Fagan, Pure Technologies (a Xylem brand)
SESSION 30: Diversity, Equity and Inclusion		Strategies to Improve Business Performance Through Workplace Equity	Masai Lawson, Gannett Fleming, Inc.
SESSION 31: YP Paper Session	✓	Implementation of Kenaf-Based Organic Biofilm for Sustainable Process Intensification in Wastewater Treatment	Pranta Roy, Viriginia Tech
SESSION 32: Utility Management - Technology	✓	Using ArcGIS Online Dashboards to View GIS and SCADA Data Simultaneously at the City of Suffolk	Beckie Haney, Jacobs
SESSION 33: Wastewater Treatment III	✓	Replacement of Prematurely Failing IFAS Media and the Benefits that Followed	Michael Larson, Chesterfield County
SESSION 34: Design and Construction III	✓	Enhanced Design of Water/Wastewater Facilities Using 3D Design and BIM	Pete Baskette, AECOM
SESSION 35: Asset Management II		Unlocking the Power of GIS and Mobile Devices for Effective Asset Management in Smaller Communities	Robert Krallinger, Bowman Consulting Group
SESSION 36: Treatment and Compliance - Informed Monitoring and Testing		Removal of PFAS from Groundwater Using GAC, Anion Exchange, and a Modified Surfactant Clay	Caitlin Glover, Stantec
SESSION 37: Stormwater Design	✓	Otterdale Road Drainage Improvement Project	Alice Ortman, JMT; & Nathan Mathis, Chesterfield County
SESSION 38: Sustainability and Resiliency II	✓	Two Paths, Two Clients, One Goal of Envision Certification	Isabella Evangelista, Brown and Caldwell
SESSION 39: Public Outreach and Education	✓	Flushed with Transparency: Sewer Rehab Unveiled for Neighborhood Peace of Mind	Phillip Hunt, George Mason University
SESSION 40: Nutrient Resource Recovery and Water Resources		Future Droughts – Applying Innovative Solutions in a Drought Risk Analysis Framework. Three Case Studies from Across the U.S.	Sebastian Malters, CDM Smith





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STORMWATER COMMITTEE MEMBER SPOTLIGHT



SHEILA REEVES
TIMMONS GROUP

How did you end up working in the stormwater industry?
Some people know exactly what they want to do in life at an early age... I was not that person. Like many college students, I had no idea what I wanted to do, but I enrolled in general engineering and discovered civil engineering by the process of exclusion: identifying the classes I did not like (or want to take) and backing into the ones that I did. From that process, I landed in water resources engineering and discovered my love for stormwater engineering. I never underestimate the value of having faith and little bit of luck to lead you to where you are supposed to be. Managing stormwater is now a critical aspect of my role for urban and environmental planning. My experience includes planning and design, modeling, regulatory compliance for stormwater and floodplain management, and public outreach and education. I really enjoy the challenge of understanding the needs of my clients and developing design solutions that integrate their needs with regulatory compliance.

What project relating to stormwater are you most proud of?
One of my favorite projects I designed and saw through construction is the Mulberry Run stormwater wetland located in Waynesboro, VA. The project site was an existing stormwater detention basin that was originally designed for only quantity control. It was a great opportunity to bench a Level 2 Stormwater Wetland into the bottom of the basin to provide water quality treatment for its large, previously untreated 330-acre drainage area.

"I really enjoy the challenge of understanding the needs of my clients and developing design solutions that integrate their needs with regulatory compliance."

The wetland was embraced by surrounding residents for the increased bird and wildlife habitat. It also provided the city with a significant amount of pollutant removal credit towards their Chesapeake Bay TMDL. The project was recognized regionally as a 2017 Best Urban BMP in the Bay award for Best Habitat Creation in a BMP and nationally as a Recognized Project in the EPA PISCES (Performance and Innovation in the SRF Creating Environment Success) Program.

Why did you join the Stormwater committee?
When our family relocated to Richmond, I joined VWEA to meet and network with other professionals in the stormwater community. I have really valued my membership within the committee as it has allowed me to build relationships and work with people from all over Virginia that I may have not met otherwise. With the range of backgrounds in the committee, it is refreshing to learn and understand other perspectives relating to current stormwater issues.

What do you like to do for fun?
I am the mother to three children, now all in their upper teens. Next year will be a big change for us as all three of our children will be leaving home for college. These days, I am cherishing the time I have with them by never missing an opportunity to go to the farm for horseback riding with the twins or kayaking with my older son.

COMMUNICATION COMMITTEE MEMBER SPOTLIGHT



MARYBETH LEONGINI
VIRGINIA AMERICAN WATER

What is an important detail you want to share with the VWEA members? It can be something you are proud of, either on professional or personal level.
I'm proud to work for a company (Virginia American Water) that believes in giving back to the communities we serve and thrilled to lead our community engagement efforts.

Why did you join the Communication Committee?
I first learned about the Communications Committee while attending the VA AWWA|VWEA Leadership Academy. All Leadership Academy participants are required to be a member of at least one committee. It was a perfect fit and I'm still enjoying being a member of the committee years later.

"Both VWEA and the Communication Committee provide a great opportunity to get to know your peers at other water utilities and learn about initiatives they have underway."

How does this committee or VWEA play a role in your work?
Both VWEA and the Communication Committee provide a great opportunity to get to know your peers at other water utilities and learn about initiatives they have underway.

What do you like to do for fun?
I love to read and am looking forward to spending more time outdoors now that the weather is warming up.

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Quinn Consulting Services, Inc.	78	703-818-0721	https://quinn-consulting.com
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