

# Texas Water™ 2024

## Conference Preview

April 9–12, 2024 • Fort Worth Convention Center • Fort Worth, Texas



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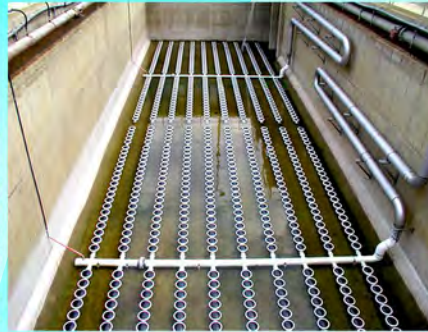
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# Hit the Trail to Cowtown for Texas Water™ 2024

Join the Texas Water community in Fort Worth for Texas Water™ 2024, the Largest Regional Water Conference in the U.S.©!

Volunteers for Texas Water™ 2024 have been putting in long hours so that your experience in Fort Worth is educational and fun! The technical sessions, carefully crafted by a strong technical program committee, will provide the information to make your work easier.

In the Fort Worth Convention Center Exhibit Hall, we invite you to learn about new tools and technology that solve problems — some you know you have and some you may not have discovered yet. Don't forget to stop by and see the competitions, or sign up if you dare!

After learning and networking, it's time to have fun at Thursday's Conference Night-Out at Billy Bob's Texas. We look forward to seeing you in Fort Worth for Texas Water™ 2024!

## Laura Wilson

Texas Water Co-Chair

*Water Environment Association of Texas*

## Mary Gugliuzza

Texas Water Co-Chair

*Texas Section American Water Works Association*



**Full registration is your best value for Texas Water™ 2024.** With full registration, you receive:

- access to all technical sessions
- full access to the Exhibit Hall
- tickets to the Awards Lunch, the Women of Water Breakfast, the Box Lunch and the Thursday Night Out event

**Non-member full registration** includes a free\* one-year membership to either **WEF/WEAT** or **AWWA/TAWWA**.

*\*New members only, not for membership renewals*

**Tickets** for the Women of Water Breakfast, Facility Tours, Lunches, Conference Night Out event and the Gloyna Breakfast are also available for purchase.

**REGISTER ONLINE AT**  
**[www.txwater.org](http://www.txwater.org)**

The easiest way to register is online at **[www.txwater.org](http://www.txwater.org)**.

You may also register by mail to  
Texas Water c/o  
GCP Association Services  
PO Box 676  
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**Deadline for discounted  
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# TENTATIVE CONFERENCE SCHEDULE

All events are at the Fort Worth Convention Center, 1201 Houston St, Fort Worth, TX 76102, unless otherwise noted.  
Schedule is subject to change.

## TUESDAY, APRIL 9

|                  |  |
|------------------|--|
| 7:00 am          | Golf Tournament • The Golf Club at Fossil Creek                              |
| 7:30 am–2:30 pm  | Exhibitor Move-In • Exhibit Hall   |
| 8:30 am–11:30 am | Curtis Smalley Environmental Event<br>Trinity Park                           |
| 1:00 pm–4:00 pm  | WEAT Annual Board Meeting and Leader Networking • Convent. Center Ballroom A |
| 1:00 pm–4:00 pm  | TAWWA Annual Board Meeting<br>Convention Center Ballroom C                   |
| 4:00 pm–5:00 pm  | WEAT Ops Challenge Pre-Meeting   |
| 4:00 pm–6:30 pm  | Registration   |
| 4:30 pm–6:30 pm  | Meet & Greet • Exhibit Hall  |

## WEDNESDAY, APRIL 10

|                   |   |
|-------------------|---|
| 5:30 am           | Dodson Drive Fun Run (6:30 am start time)   |
| 8:00 am–8:15 am   | WEAT Ops Challenge Check In   |
| 8:00 am–5:00 pm   | Registration  |
| 8:00 am–5:00 pm   | Speaker Ready/Moderator Check in Room   |
| 8:15 am–8:45 am   | WEAT Ops Challenge Process Control Event  |
| 8:45 am–3:00 pm   | WEAT Ops Challenge Laboratory, Exhibition and Electrical Events • Exhibit Hall                      |
| 9:00 am–9:30 am   | TAWWA Hydrant Hysteria Pre-Competition Meeting • Exhibit Hall                                       |
| 9:00 am–10:00 am  | Opening Session   |
| 9:00 am–1:30 pm   | WEAT Student Design Competition   |
| 9:30 am–4:00 pm   | TAWWA Hydrant Hysteria • Exhibit Hall   |
| 10:00 am–10:30 am | TAWWA Business Meeting  |
| 10:00 am–11:00 am | Beverage Break • Exhibit Hall   |
| 10:00 am–5:00 pm  | Exhibits/Innovation Lounge • Exhibit Hall   |
| 10:00 am–5:00 pm  | Water For People Silent Auction • Exhibit Hall  |
| 11:30 am–1:00 pm  | Awards Lunch • <b>TICKET REQUIRED</b>   |
| 1:00 pm–1:15 pm   | WEAT Business Meeting   |
| 1:00 pm–1:30 pm   | Meter Challenge Pre-Competition Meeting • Exhibit Hall  |
| 1:00 pm–4:30 pm   | Meter Challenge (Jr. Meter Challenge 1 pm) • Exhibit Hall   |
| 1:20 pm–3:00 pm   | Technical Sessions/Posters  |
| 1:20 pm–5:10 pm   | University Forum  |
| 1:20 pm–5:10 pm   | Young Professionals Technical Session   |
| 3:00 pm–3:30 pm   | Networking Break/Door Prizes • Exhibit Hall   |
| 3:00 pm–3:30 pm   | Biosolids Beauty Pageant • Exhibit Hall   |
| 3:30 pm–5:00 pm   | Fastest Saw Cut • Exhibit Hall  |
| 3:30 pm–5:10 pm   | Technical Sessions/Posters  |
| 5:00 pm           | Exhibit Hall Closes For Day   |
| 5:15 pm–5:30 pm   | Young Professionals & Student Design Competition, University Forum and Dodson Drive Awards Ceremony |
| 5:30 pm–6:15 pm   | Young Professionals & Student Reception/ Mentoring Program Networking Event                         |

## THURSDAY, APRIL 11

|                  |  |
|------------------|--|
| 7:15 am–9:00 am  | Women of Water Breakfast<br><b>TICKET REQUIRED</b>   |
| 7:30 am–5:00 pm  | Registration   |
| 8:00 am–2:45 pm  | WEAT Ops Challenge Safety, Collection System, Maintenance and Exhibition Events • Exhibit Hall |
| 8:00 am–5:00 pm  | Speaker Ready/Moderator Check in Room  |
| 8:30 am–9:30 am  | Exhibit Hall Break • Exhibit Hall  |
| 8:30 am–1:15 pm  | Water For People Silent Auction • Exhibit Hall   |
| 8:30 am–4:00 pm  | Exhibits/Innovation Lounge • Exhibit Hall  |
| 9:00 am–9:30 am  | TAWWA Top Ops Pre-Competition Meeting • Exhibit Hall   |
| 9:00 am–9:30 am  | TAWWA Pipe Tapping Pre-Competition Meeting • Exhibit Hall                                      |
| 9:00 am–11:50 am | Technical Sessions/Posters   |
| 9:00 am–11:50 am | Value of Water Program   |
| 9:30 am–1:30 pm  | TAWWA Top Ops Competition • Exhibit Hall   |
| 9:30 am–4:00 pm  | TAWWA Hydrant Hysteria • Exhibit Hall  |
| 9:30 am–4:00 pm  | TAWWA Pipe Tapping Competition • Exhibit Hall  |
| Noon–1:00 pm     | Box Lunch with Exhibitors • Exhibit Hall<br><b>TICKET REQUIRED</b>                             |
| 12:30 pm–1:05 pm | Awards Celebration • Ballroom C  |
| 1:00 pm–3:00 pm  | Mentor/Mentee Meet Up  |
| 1:10 pm–2:50 pm  | Technical Sessions/Posters   |
| 1:30 pm–3:00 pm  | Professional Ethics Workshop for Engineers   |
| 1:30 pm–3:00 pm  | TAWWA Best-Tasting Drinking Water Event • Exhibit Hall, Top Ops Area                           |
| 2:45 pm–4:00 pm  | WEAT Operations Awards & Biosolids Beauty Contest Ceremony • Ballroom C                        |
| 2:50 pm–3:20 pm  | Networking Break/Door Prizes • Exhibit Hall  |
| 3:20 pm–5:00 pm  | Technical Sessions/Posters end at 4 pm   |
| 4:00 pm          | Exhibit Hall Closes/Exhibit Breakdown  |
| 6:15 pm          | Gavel Passing • Billy Bob's Texas  |
| 6:30 pm–8:30 pm  | Conference Night-Out • Billy Bob's Texas<br><b>TICKET REQUIRED</b>                             |

## FRIDAY, APRIL 12

|                   |  |
|-------------------|--|
| 7:00 am–8:30 am   | Gloyna Breakfast • <b>TICKET REQUIRED</b>                                |
| 7:00 am–Noon      | Registration • Outside Tech Session Rooms                                |
| 8:00 am–9:00 am   | Beverage Break • Outside Tech Session Rooms                              |
| 8:00 am–Noon      | Facility Tours • Depart from Convention Center<br><b>TICKET REQUIRED</b> |
| 8:00 am–Noon      | Speaker Ready/Moderator Check in Room                                    |
| 8:30 am–10:10 am  | Technical Sessions   |
| 10:10 am–10:20 am | Networking Break • Outside Tech Session Rooms                            |
| 10:20 am–Noon     | Technical Sessions   |
| Noon              | Conference Adjourns  |

## Keynote: Mayor Mattie Parker



Texas Water is excited to welcome Fort Worth Mayor Mattie Parker to provide the keynote comments at Texas Water™ 2024. The address will take place during the Opening Session at 9 a.m. Wednesday, April 10.

Reelected in 2023 with 70% of the vote, Mayor Parker has served as the 45th Mayor of Fort Worth since 2021. Parker is focused on building a safer and stronger Fort Worth, nurturing thriving families, and fostering the highest quality of life in every ZIP code of the nation's 13th largest city.

Launching her vision to build Fort Worth into a world-class city, Mayor Parker's next-generation leadership includes key efforts and community partnerships to bolster Fort Worth's development to compete in a global economy, improve public safety, expand access to education and workforce opportunities, and preserve the city's rich heritage with a pioneering spirit and determination to leave things better than she found them.

Mayor Parker is a licensed attorney, with more than seventeen years of experience in national, state and local public affairs, including her service as the chief of staff for Mayor and the Fort Worth City Council. She was the founding CEO of Fort Worth Cradle to Career and the Tarrant To & Through (T3) Partnership. She and her husband David are the proud parents of one daughter and two sons.

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## OPENING SESSION

Joining Mayor Parker at Wednesday's Opening Session will be WEF Board of Trustee member Corey Williams and chair of AWWA's Technical and Educational Council Kate Nutting.



## SCHOLARSHIP GOLF TOURNAMENT

**TUESDAY, APRIL 9, 7 A.M.**

The **Texas Water 2024 Scholarship Golf Tournament** will be held at The Golf Club at Fossil Creek. The tournament benefits the scholarship programs of both WEAT and TAWWA and is a great way to meet new friends and colleagues. Get more details and a registration form on **Page 37** or sign up online at [www.txwater.org](http://www.txwater.org).

## CURTIS SMALLEY ENVIRONMENTAL EVENT

**TUESDAY, APRIL 9, 8:30 A.M. TO 11:30 A.M.**

Calling all environmental enthusiasts and dedicated volunteers – get ready to make a splash at the Curtis Smalley Environmental Event! This event promises a morning of meaningful impact and Texas-sized camaraderie amidst the scenic backdrop of Trinity Park in downtown Fort Worth. With a blend of professionalism and genuine enthusiasm, the Curtis Smalley Environmental Event aims to inspire, educate, and foster connections among water enthusiasts, passionate about safeguarding our water resources. Team up with the City of Fort Worth volunteers and Tarrant Regional Water District for a dynamic morning of riparian conservation and preservation. Join forces with top-notch water and environmental organizations from across the Lone Star State as we converge “where the west begins.” Get your boots ready for a meaningful experience, which includes the chance to make a tangible impact on the protection and restoration of the beloved waterways along the Clear Fork Trinity River. Don't miss this opportunity to be part of a collective effort that will continue the legacy of this cherished event. If you would like to volunteer, please sign up for the event online at [www.txwater.org](http://www.txwater.org) (under “Events”). *Transportation will be provided from the Omni hotel to the site beginning at 8 am. Pick up and drop offs will occur every 20 min and the last shuttle will leave the park at noon. You are also welcome to drive yourself to the park.*

## MEET & GREET/EXHIBIT HALL

**TUESDAY, APRIL 9, 4:30 TO 6:30 P.M.**

Texas Water attendees **Meet & Greet** in the Exhibit Hall at the Fort Worth Convention Center for refreshments. Registration opens at 4 p.m., then you can enjoy the relaxed atmosphere of the Exhibit Hall. Texas Water™ 2024 hosts the **largest regional water exhibition on the continent**. More than 600 exhibit booths are in one place, at one time, in the convention center.

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# CONFERENCE HIGHLIGHTS

## INNOVATION LOUNGE

**TUESDAY, APRIL 9 – THURSDAY, APRIL 11**

The Texas Water™ Conference has always promoted innovation and creative design to solve some of our most complex water problems. The Innovation Lounge highlights innovative and advanced technologies from across North America. Don't miss this opportunity to check out these new technologies while collaborating with your colleagues in the Innovation Lounge inside the Exhibit Hall. *There is no additional fee to visit the Innovation Lounge.*

## TEXAS WATER YP DODSON DRIVE 5K FUN RUN/WALK

**WEDNESDAY, APRIL 10, 5:30 A.M. CHECK IN;  
6:30 A.M. START TIME**

The Dodson Drive Fun Run supports young professionals in the Texas water industry by raising funds to support the WEAT/TAWWA Dodson Drive Fund. The Dodson Drive Fund, established in 2011 to honor the late Kenneth Dodson, provides scholarships for young professionals and funding to send our young professionals to the annual Young Professionals Summit.

This year's Fun Run is a 5K course location starting between the Fort Worth Convention Center and the Fort Worth Water Gardens. Participants will run the historic streets of downtown Fort Worth on a scenic route, with views of the famous Water Gardens and Fort Worth City Hall along the way. All teams and paid participants will be chip timed and receive a technical shirt. Finishers will receive their very own finisher's ribbon to wear on your Texas Water badge. Awards will be given to the fastest male and female overall runners, fastest male and female masters runners, fastest YP male and female runners, and the fastest team. Sign up at [www.txwater.org](http://www.txwater.org)! Don't miss being a part of this conference tradition!

## NETWORKING BREAKS

**WEDNESDAY, APRIL 10 – FRIDAY, APRIL 12**

Start each Texas Water™ 2024 day with **networking breaks** in the Exhibit Hall Wednesday and Thursday and near the Technical Sessions on Friday.

## TECHNICAL SESSIONS

**WEDNESDAY, APRIL 10 – FRIDAY, APRIL 12**

The Texas Water Program Committee offers technical sessions presented by the top experts in the industry and targeted to the most important issues facing water and wastewater professionals today. This year we had

827 abstracts submitted that were peer-reviewed to bring you more than 200 leading-edge presentations that are offered only at Texas Water™ 2024. And, once again, we will provide a number of top poster displays as part of our full technical program. Attending Texas Water™ allows you access to the best of the best technical presentations.

**For a full listing, see Pages 28-35.**

## POSTER DISPLAY

**WEDNESDAY, APRIL 10 – THURSDAY, APRIL 11**

Texas Water™ 2024 will give attendees an expanded opportunity to learn with a series of research posters. The posters give authors the opportunity to display their research topics and to share the information they discovered. The posters will be displayed in the Fort Worth Convention Center from Wednesday morning through Thursday afternoon. Authors are encouraged to leave business cards or other contact information so that viewers can direct questions or comments their way. A listing of the posters will be provided in the Texas Water Conference Program and in the conference app.

## STUDENT DESIGN COMPETITION

**WEDNESDAY, APRIL 10, 9 A.M. TO 1:30 P.M.**

The WEAT Student Design Competition (SDC) gives students the opportunity to design and present a project based on a real-world wastewater treatment plant design problem. Students will be competing to represent WEAT at the Student Design Competition in New Orleans at WEFTEC 2024. The 2024 WEAT SDC will focus on the Pecan Creek Water Reclamation Plant (PCWRP) located in Denton, Texas. The plant was constructed in 1961 and later expanded four more times before reaching its current permitted flows of 21-mgd AADF and 46-mgd P2H. Denton is experiencing unprecedented growth and the plant will expand to accommodate the population increase. Students participating in the competition are tasked with expanding the plant to 26-mgd AADF and 69-mgd P2H, upgrading the adjacent Dyno-Dirt Composting Facility to accommodate the increase of plant biosolids, along with addressing other improvements. Come out and support your alma mater or see some prospective future leaders in the industry!

Visit [www.txwater.org](http://www.txwater.org) for the latest conference information and to register.  
See you in Fort Worth!

# CONFERENCE HIGHLIGHTS

## WATER FOR PEOPLE SILENT AUCTION

*WEDNESDAY, APRIL 10 – THURSDAY, APRIL 11*

All net proceeds from the silent auction benefit Water For People, a global non-profit with a revolutionary mission of water and sanitation for every family, every school, and every clinic!! Water For People insists on remaining for generations, gaining district-wide matching support, employing locals, and empowering women. Their motto is “Everyone Forever” and the model they employ to execute programs and projects ensures long-lasting, sustainable impacts to communities. To donate an auction item, visit [www.txwater.org](http://www.txwater.org).

## AWARDS LUNCH

*WEDNESDAY, APRIL 10, 11:30 A.M. TO 1:00 P.M.*

### **TICKET REQUIRED**

Enjoy a great meal with your colleagues at the Awards Lunch. The luncheon will feature the first of the conference **award ceremonies**, recognizing some of the longtime leaders of our water/wastewater community. Your ticket to the luncheon is included with Full or Wednesday-Only Registration. Additional tickets are available for \$75 on or before March 18; \$85 after.

## YP TECHNICAL SESSION

*WEDNESDAY, APRIL 10, 1:20 P.M. TO 5:10 P.M.*

Young Professionals will share their knowledge and experiences on an array of matters aimed at engaging YPs and seasoned professionals alike. Reference the program lineup for details.

## YP & STUDENT AWARD CEREMONY

*WEDNESDAY, APRIL 10, 5:15 P.M. TO 5:30 P.M.*

Winners of the Student Design Competition, the University Forum, the Dodson’s Drive Run and Inflow will be honored and celebrated at this ceremony ahead of the YP & Student Reception/Mentoring Program networking event.

## YP & STUDENT RECEPTION/MENTORING PROGRAM NETWORKING EVENT

*WEDNESDAY, APRIL 10, 5:30 P.M. TO 6:15 P.M.*

Join the YPs and seasoned professionals for drinks and hors d’oeuvres during this networking event. The Networking Event will provide Young Professionals an opportunity to meet with Mentors and discuss their career journey. Join us to learn more about the Mentoring Program and how you can participate.

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# CONFERENCE HIGHLIGHTS

## WOMEN OF WATER BREAKFAST

THURSDAY, APRIL 11, 7:15 A.M. TO 9:00 A.M.

**TICKET REQUIRED**

The Women of Water Breakfast will feature three dynamic panel members who will discuss their entrepreneurial skills providing different services to the public and the water industry. One ticket is included with Full Registration. Additional breakfast tickets are available at \$50 each if purchased on or before March 18; \$60 after. Please join us to hear from these outstanding women:

**Cristina Criado**, PE, serves as the President and Chief Executive Officer of Criado & Associates, Inc., which she founded in 2001. Cristina has used her technical expertise, strong will, and determination to establish CRIADO as a leading woman-owned, minority firm. She remains genuinely and consistently committed to the day-to-day operations of the company and has stayed true to her roots in developing a family-oriented business that understands and implements a positive, inclusive work environment. She holds a BSc in civil engineering from the University of Texas at Austin and a master's in engineering from the University of Texas at Arlington.

**Stephanie Corso** continues to dedicate her life to revolutionizing the way the story of water is told in the US using her public water utility experience. Her passion is to serve others and to build bridges of trust between water providers and the communities they serve. She has, as a result, become the chief provocateur to rally the water community into action. Stephanie co-founded and leads two mission-driven organizations and is the disruptive producer and host of water-related content.

**Nancy Lerner** has more than thirty years of experience as an Executive, Principal-In-Charge, Project Manager, and Consultant in the areas of business process optimization, performance management, and integrated information systems. This includes strategic planning, feasibility studies, data modeling, requirements analyses, system design, organizational design, policy and procedure development, and implementation of organizational transformation programs, large technology projects with a specific focus on work and asset management and performance management program design and implementation. She is the founder and CEO of Brio Consulting, LLC since 2013 and holds a BA in Economics



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and Anthropology as well as an MBA, with a specialty in Information Systems, from the University of Texas at Austin.

### VALUE OF WATER PROGRAM

**THURSDAY, APRIL 11, 9 A.M. TO 11:50 A.M.**

How we THINK and TALK about water can be different depending on the audience. The data used by industry professionals to plan infrastructure work doesn't always resonate with the public and utilities must continuously balance science with simplicity to gain support from a multitude of communities. Join us at Texas Water for four exciting presentations and a panel discussion that will dive into the stories we tell for different water communication goals – cross-sector collaboration, infrastructure funding, elementary education, and more! The Value of Water (VOW) Program at the Texas Water conference is a half-day session devoted to promoting water communication successes and best practices in Texas. This unique session provides an interactive and collaborative environment for water professionals interested in improving their relationship with rate payers and the general public. Please join us at the Texas Water™ 2024 conference for another exciting program!

### BOX LUNCH

**THURSDAY, APRIL 11, NOON TO 1:00 P.M.**

**TICKET REQUIRED**

Thursday is a big day at the Texas Water Conference. In addition to the great Technical Programs and the full day of Exhibits, Thursday is also your opportunity to cheer on your favorite team at the **Exhibit Hall competitions** – Pipe Tapping, Operations Challenge, Hydrant Hysteria or Top Ops. So you won't miss a minute of the action, we'll serve a great Box Lunch at numerous locations in the Exhibit Hall. Your Full Registration or Thursday-Only Registration includes a ticket for the Box Lunch. Extra tickets are available for \$40 on or before March 18; \$50 after.

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# CONFERENCE HIGHLIGHTS

## AWARDS CELEBRATION

**THURSDAY, APRIL 11, 12:30 TO 1:05 P.M.**

Texas Water will honor **WEAT and TAWWA friends and colleagues** who have demonstrated their commitment to the water and wastewater profession. This fast-paced, live and fun event will take place in Ballroom C of the Convention Center. Doors will open at 12:15 pm.

## PROFESSIONAL ETHICS WORKSHOP FOR ENGINEERS

**THURSDAY, APRIL 11, 1:30 P.M. TO 3 P.M.**

The Texas Water Engineer's Ethics Seminar is an interactive and thought-provoking session led by Bob Pence and Gina Smith from Freese and Nichols, Inc. While earning one Professional Development Hour and satisfying the annual ethics requirement, you will learn to recognize ethical situations faced by engineers, analyze the issues of ethical situations and discuss how to resolve ethical situations in a creative and professional manner. *There is no additional fee or need to preregister for this training.*

## Texas Water™ Code of Conduct

The Water Environment Association of Texas (WEAT) and the Texas Section of American Water Works Association (TAWWA) are dedicated to providing a safe, harassment-free experience for everyone during Texas Water™ and official Texas Water™ conference events. WEAT and TAWWA will not tolerate harassment of conference attendees, exhibitors, speakers, volunteers, or staff. WEAT and TAWWA prohibit Texas Water™ participants from intimidating, harassing, unwelcome, abusive, disruptive, violent or offensive conduct. Texas Water™ participants asked to stop any such behavior must comply immediately. Violators may be subject to expulsion without refund. Harassment should be reported to conference staff immediately.

Please refer to our full Code of Conduct at [www.txwater.org/codeofconduct\\_2024.cfm](http://www.txwater.org/codeofconduct_2024.cfm) for more information including contact information for reporting actions contrary to the Texas Water™ code of conduct.

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A high-angle photograph of a wastewater treatment plant. In the foreground, a long, narrow channel of turbulent, brownish water flows through a concrete structure with metal railings. In the background, several large circular aeration tanks are visible, surrounded by green grass and industrial equipment. The sky is clear and blue.

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# CONFERENCE HIGHLIGHTS

## CONFERENCE NIGHT OUT

THURSDAY, APRIL 11, 6:15 P.M. TO 8:30 P.M.

### TICKET REQUIRED

Our conference night out event will take place at the Historic Billy Bob's Texas, conveniently located in the Stockyards. Billy Bob's Texas first opened April 1, 1980 with a live concert from Larry Gatlin and the Gatlin Brothers. It is the world's largest honky-tonk. The event will feature live music, food options, and live armadillo races. The Conference Night Out tickets include one Old West Photo (1 photo ticket) and a deluxe bar service that includes a variety of wines, beers and cocktails (2 drink tickets, followed by a cash bar).



Shuttle buses will leave from the Convention Center at 6 pm. The Gavel Passing ceremony will start at 6:15 pm.

A Conference Night-Out ticket is included with Full Registration or with the Guest Badge. A limited number of tickets are available for purchase at the cost of \$100 by March 18; \$110 after.

Billy Bob's Texas is located at 2520 Rodeo Plaza, Fort Worth, TX 76164.



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Our team of water experts is gearing up for Texas Water 2024 and we are looking forward to seeing you there!

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# CONFERENCE HIGHLIGHTS

## GLOYNA BREAKFAST

FRIDAY, APRIL 12, 7 TO 8:30 A.M.

### TICKET REQUIRED

Larry Patterson will be the featured speaker at the Gloyna Breakfast at 7 a.m. on Friday, April 12.

Patterson is the Executive Director of the Upper Trinity Regional Water District. He is a Licensed Professional Civil Engineer in the State of Texas with 50 years of experience in the water/wastewater utility industry. Patterson joined Upper Trinity Regional Water District in 2002 after his retirement from the Dallas Water Utilities Department, where he served as Assistant Director for Wastewater Operations.

Patterson began his employment with Upper Trinity as the District's Chief Engineer and steadily progressed through positions of increasing responsibility leading to his appointment as Executive Director in March 2018. Upper Trinity operates water and wastewater facilities that serve 29 communities located in Denton and Collin counties.

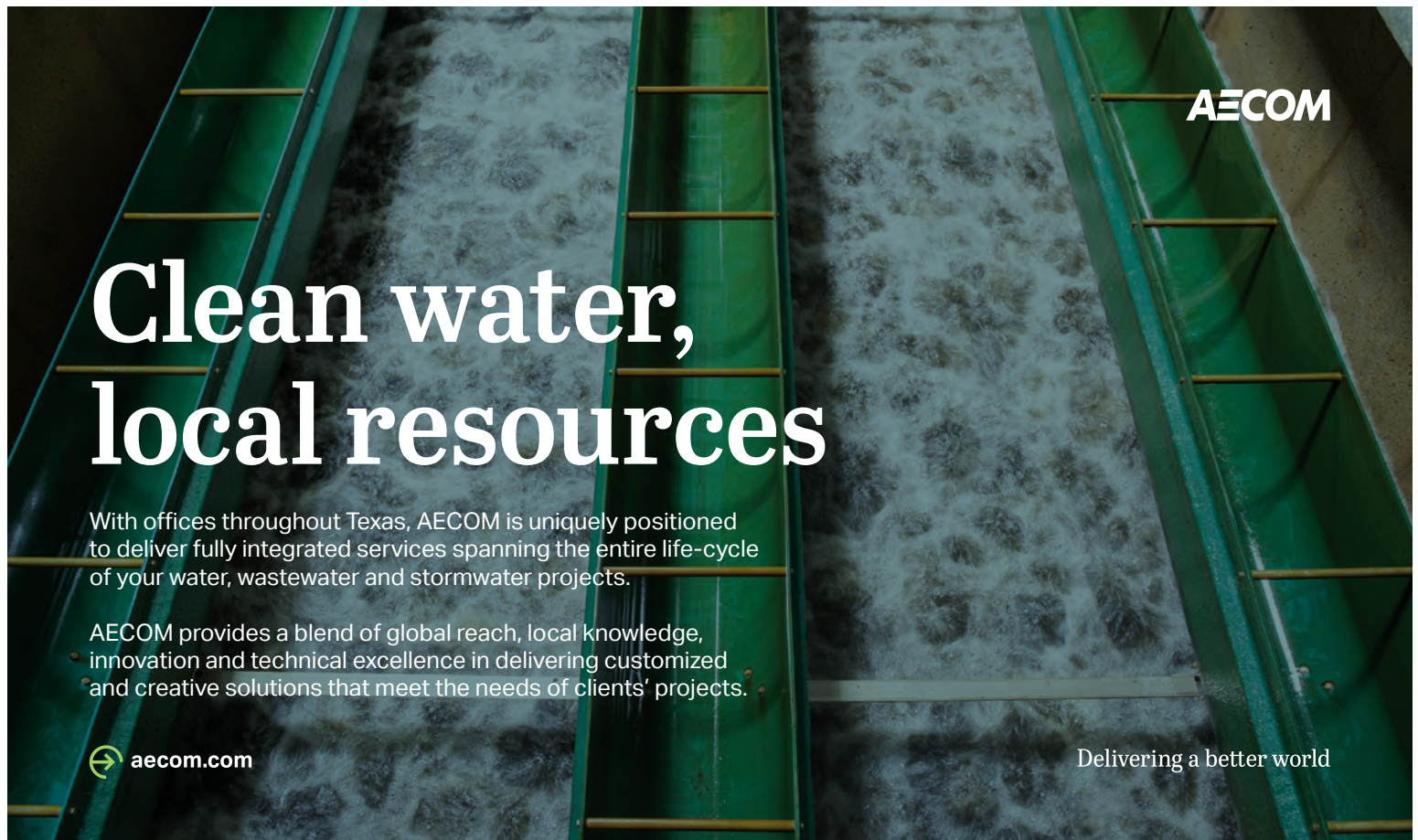
Patterson is an active member of the Water Environment



Association of Texas, the Water Environment Federation, the American Water Works Association, the American Society of Civil Engineers and served in leadership positions with both the Texas and National Association of Clean Water Agencies (TACWA and NACWA).

Patterson also served for 30 years in the Texas Army National Guard as an engineering officer, ending his military career achieving the rank of Brigadier General. He holds a bachelor's in civil engineering from Texas A&M University and a master's in environmental sciences from the University of Texas at Dallas. Mr. Patterson is a Distinguished Graduate of the Zachry Department of Civil and Environmental Engineering at Texas A&M University.

The breakfast honors the long and distinguished career of the late Earnest F. Gloyna, professor of Environmental and Water Resources Engineering at the University of Texas at Austin. Dr. Gloyna's teaching, research and professional practice have touched an unusually large number of students, educators, engineers and the public leadership not only in Texas but throughout the world. Tickets for the Gloyna Breakfast are \$50 and are sold separately.




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We see more in water—more than the science, more than the planning, and more than the design. We see the families and communities we serve, and the increasingly fragile ecosystems we must protect. For over 90 years, we've been inspired to safeguard the quality of life for all communities, developing the most innovative solutions in the water industry. It just doesn't get any bigger than that.



# Fastest Saw Cut Competition



## Fastest Saw Cut Competition Schedule of Events:

3:30 – 4:15 p.m.

Utility Management Tournament  
Traditional Head to Head Sawcut

4:15 - 5:00 p.m.

Traditional Head to Head Sawcut

All events are open to  
all TX Water attendees.

Proceeds benefit the  
**Curtis Smalley  
Memorial Fund**

## Wednesday, April 10, 2024

### Entry Details:

\$5 per entry · All equipment provided

### Pre-Registration + Questions:

For pre-registration (recommended, not required)  
and additional information, contact:  
Grace Sober · [gdsobor@lan-inc.com](mailto:gdsobor@lan-inc.com)

### Which division title will you take home?

Women · Ops Challenge Competitor · Men



Water Environment  
Association of Texas

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# COMPETITIONS

## WEDNESDAY, APRIL 10–THURSDAY, APRIL 11 Operations Challenge

Wednesday, April 10, 8 am–Thursday, April 11, 2:45 pm  
Thursday, April 11, 2:45 pm: Awards Ceremony

Watch the nation's best operators and maintenance staff compete in the Operations Challenge Competition at Texas Water™ 2024. This multi-day competition challenges utility teams to test their knowledge in different aspects of their day-to-day responsibilities. Operations Challenge is composed of five individual events that carry over to nationals. In addition, Texas has created additional exhibition events to provide other opportunities for teams to compete. The competitions include:

### Freese and Nichols Process Controls Event

Teams will complete a written test consisting of short math and process scenario questions, electronic multiple-choice questions, and process simulation.

### Hartwell Environmental Laboratory Event

Analyzing and determining total suspended solids, conductivity / TDS and performing solids mass balance across a treatment system.

### Walter Chiang Maintenance Event Sponsored by STV

The purpose of this event is to test the skills of a maintenance team to respond to trouble at a wastewater lift station that has resulted in an alarm.

### AECOM Collection System Event

Teams are required to cut out a section of an 8-inch PVC wastewater pipe with water flowing through it, drill and install a 4-inch service saddle in the replacement pipe, cut and install the replacement section with couplings. Programming of an automated sampler is required.

### Carollo Safety Event

Teams will be required to rescue unconscious workers from a simulated manhole. Team members will set up a retrieval system, perform a permit required confined space entry, rescue the downed workers, perform CPR while recovering the second victim.

### Gupta Electrical Event

A race to troubleshoot a lift station control panel and power supply.

### Seepex Exhibition Event

Competitors will race to replace the stator and rotor in a seepex Smart Conveying Technology (SCT) pump.

### Victaulic Exhibition Event

A race to put together a style 31 coupling tree arrangement using Victaulic couplings, pipes, and drill drivers.

### Awards Ceremony

Awards for the Operations Challenge Competition, Biosolids Beauty Contest and other operations-focused awards will be handed out at the Operations Awards Ceremony at 2:45 pm in Ballroom C of the Convention Center.

Sign a team up to compete! Competitors can receive up to 10 TCEQ CEU hours, t-shirts, entry into the technical sessions and exhibit halls, and bragging rights! The top Texas Teams earn a free trip to the National WEFTEC competition. Contact Jeff Sober at 214-883-6263 or [j Isober@garverusa.com](mailto:j Isober@garverusa.com) or register at [www.txwater.org/2024/operations\\_challenge\\_2024.cfm](http://www.txwater.org/2024/operations_challenge_2024.cfm).

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# COMPETITIONS

## Hydrant Hysteria

Wednesday, April 10, 9:30 am-4 pm, Exhibit Hall

Thursday, April 11, 9:30 am-4 pm, Exhibit Hall

Hydrant Hysteria is a fast-paced competition where two member teams assemble a specified hydrant as quickly as they can. The Section winners will compete at AWWA ACE24 in Anaheim, CA, in June. *Registration for Hydrant Hysteria has now closed.*

### WEDNESDAY, APRIL 10

## Junior Meter Challenge Contest

1 pm-2:30 pm, Exhibit Hall

The Junior Meter Challenge Contest matches students from high school environmental programs for a test of their meter-assembling skills and dexterity. Please support these future water professionals by attending on Wednesday.

## Meter Challenge

2:30 pm-4:30 pm, Exhibit Hall

Contestants race to assemble a 5/8-inch meter from loose parts and test for leaks. The winner represents Texas at AWWA ACE24 in Anaheim, CA, in June. Limited to 12 competitors. Visit [www.txwater.org/2024/meter\\_challenge\\_2024.cfm](http://www.txwater.org/2024/meter_challenge_2024.cfm) to sign up.

## Biosolids Beauty Pageant

Wednesday, April 10: 3:00 pm-3:30 pm,

Exhibit Hall - Judging

Thursday, April 11: 2:45 pm-4:00 pm,

Grand Lobby - Awards Ceremony

Biosolids Beauty Pageant is coming to Texas Water™ 2024 in Fort Worth. Categories include Class B, Class A/AB, Overall Winner, People's Choice and Most Creative Presentation. Visit [www.txwater.org/2024/biosolids\\_beauty\\_2024.cfm](http://www.txwater.org/2024/biosolids_beauty_2024.cfm) for more information and to sign up.



## Texas Fastest Saw Cut

3:30 pm-5 pm, Exhibit Hall, Ops Challenge Area

Who is the fastest draw on cutting a piece of 8-inch SDR 35 pipe with a hand saw? It's time to show who really has the quickest hands in Texas at the annual Texas Fastest Saw Cut. This competition is designed to demonstrate elements of the Operations Challenge's Collection event. The event is open to all. The \$5 entry fee proceeds go to Curtis Smalley Memorial Fund. First place in all events will receive a plaque. Contact Grace Sober at [gdsobor@lan-inc.com](mailto:gdsobor@lan-inc.com) for more information and to sign up.

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## THURSDAY, APRIL 11

### Top Ops

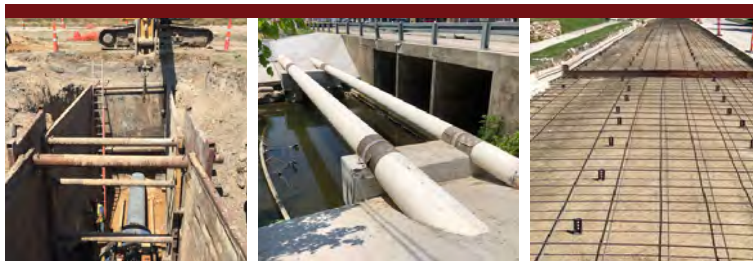
9:30 am-1:30 pm, Exhibit Hall

Water operations personnel can impress their co-workers and dazzle their bosses with their technical knowledge by competing in this quiz show-style event. The winning team advances to the National Top Ops Competition at AWWA ACE24 in Anaheim, CA, in June. Visit [www.txwater.org/2024/top\\_ops\\_2024.cfm](http://www.txwater.org/2024/top_ops_2024.cfm) to sign up.

### Pipe Tapping Contest

9:30 am-4 pm, Exhibit Hall

Four-person teams from across the state compete to determine who will represent Texas at the National Pipe Tapping Competition at AWWA ACE24 in Anaheim, CA, in June. Visit [www.txwater.org/2024/pipe\\_tapping\\_2024.cfm](http://www.txwater.org/2024/pipe_tapping_2024.cfm) to sign up.



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### Best Tasting Drinking Water Contest

1:30 pm-3 pm, Exhibit Hall

The Best Tasting Drinking Water Contest brings together entries representing utilities across Texas. A panel of celebrity judges will grade the samples. Along with Texas bragging rights, the winning entrant competes at AWWA ACE24 in Anaheim, CA, in June. Visit [www.txwater.org/2024/best\\_tasting\\_drinking\\_water\\_2024.cfm](http://www.txwater.org/2024/best_tasting_drinking_water_2024.cfm) to sign up.

### C.E. HOURS

TCEQ Operator Training Certification Hours will be available for attending technical sessions and participating in competition events and facility tours.

Engineers may also self-report CE hours for attending sessions.

*Please note that we will not have engineering forms onsite. Keep track of the sessions you attend so you can self-report your hours.*



# HOTEL INFORMATION

The host hotels for Texas Water™ 2024 may be sold out. Please check availability at the alternate hotels below. Texas Water does not have room blocks, special rates or arrangements with the below hotels, but all are within a short walking distance to the Fort Worth Convention Center. No hotel transportation is being provided by Texas Water™ 2024. If you make a reservation at another hotel, note your cancellation date and check back often to see if more rooms become available at the host hotels (information below) at the conference rate.

## Fairfield Inn & Suites Fort Worth Downtown

1010 Houston Street  
Fort Worth, TX 76102

<https://www.marriott.com/en-us/hotels/dfwfd-fairfield-inn-and-suites-fort-worth-downtown-convention-center/overview/>

## Hampton Inn & Suites Fort Worth Downtown

1001 Commerce Street  
Fort Worth, TX 76102

<https://www.hilton.com/en/hotels/ftwdthx-hampton-suites-fort-worth-downtown/>

## Hilton Fort Worth

815 Main St  
Fort Worth, TX 76102

<https://www.hilton.com/en/hotels/ftwfhf-hilton-fort-worth/>

## Embassy Suites by Hilton Fort Worth Downtown

600 Commerce Street  
Fort Worth, TX 76102

<https://www.hilton.com/en/hotels/ftwes-es-embassy-suites-fort-worth-downtown/>

The host hotels for Texas Water™ 2024 are:

### Omni Fort Worth Hotel

1300 Houston Street  
Fort Worth, TX 76102

Omni room rates are \$235 a night plus taxes and fees. Book online at <https://www.omnihotels.com/hotels/fort-worth/meetings/texas-water-04082024>

**Omni Additional Info:** Cut-off date: March 18, 2024 (please see different cut-off date if booking more than 5 hotel rooms). All reservations must be guaranteed by a valid credit card at the time of booking. Any guaranteed reservation not cancelled 72 hours prior to the arrival date will be subject to a one night room and tax cancellation fee.

## Sheraton Fort Worth Downtown

1701 Commerce Street  
Fort Worth, TX 76102

Sheraton room rates are \$179 a night plus taxes and fees. Book online at <https://www.marriott.com/event-reservations/reservation-link.mi?id=1699280502126&key=GRP&app=resvlink> or by calling 817-335-7000.

**Sheraton Additional Info:** Cut-off date: March 22, 2024 (please see different cut-off date if booking more than 5 hotel rooms). Reservations will be held only if accompanied by a credit card or an advanced deposit. Any guest room reservation must be cancelled more than 72 hours in advance of the arrival date, or a one-night room and tax charge will apply. Check-in time begins at 4:00 pm and checkout time is at 11:00 am. Hotel room rates are subject to all applicable state and local taxes. Texas Water does not have room blocks or arrangements with any other hotels besides the above host hotels.

**See special information regarding booking more than 5 hotel rooms:** Texas Water negotiates hotel rates to provide reasonable rates for conference attendees. As part of this agreement, Texas Water™ 2024 assumes financial responsibility for any unsold rooms at the hotels where we have contracts.

The following policy will apply to anyone who books more than 5 hotel rooms at the negotiated Texas Water rate. Any person, group, company or organization that reserves more than 5 rooms at the Texas Water Conference rate agrees that they will cancel any rooms they do not plan to use **earlier than the normal cut-off date for room reservations**. The cut-off date for reservations in excess of 5 rooms is **February 23, 2024**.

By registering for Texas Water™ 2024 at the conference rate, and/or within the Texas Water negotiated room block, any person, group, company or organization agrees that if they fail to cancel the rooms by the cutoff date above, they will assume full responsibility to pay for any unused rooms at the full conference rate including all taxes and other fees in the event the rooms go unsold and the hotel acts to hold Texas Water™ 2024, TAWWA and/or WEAT, responsible for any unused rooms under the terms of the contract. Please direct any questions regarding this policy to [info@txwater.org](mailto:info@txwater.org).

### COVID Statement - Subject to change

During the COVID-19 pandemic, Texas Water™ 2024 has been making the necessary adjustments to ensure participant safety is our top priority. Together, with the Fort Worth Convention Center and local hotels and venues, we are following current guidance and information shared by the Centers for Disease Control (CDC), Tarrant County and the City of Fort Worth. Attendees are encouraged to take any necessary steps to protect themselves and others when attending conference events.





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TEXAS COMMITTEE



# SILENT AUCTION

TEXAS WATER 2024  
FORT WORTH, TX  
APRIL 9-12

## Donations Needed!

Typical donation items include gift baskets, gadgets, experiences, event tickets, artwork, decorative items, collectibles, gift cards, and cash.



## Our Cause

ALL proceeds will benefit **WATER FOR PEOPLE**, a global non-profit bringing water and sanitation to every family, every school, and every clinic in which it works, forever!



Learn more at [www.waterforpeople.org](http://www.waterforpeople.org)

## COMMIT TO DONATING

[www.txwater.org/2024/wfp\\_auction\\_submission\\_2024.cfm](http://www.txwater.org/2024/wfp_auction_submission_2024.cfm)



# TOURS

Attendees can add to their Texas Water™ 2024 experience by registering for one of the three Friday morning tours. Tour tickets are in addition to conference registration and include transportation. Cost is \$35 if purchased by March 18; \$40 thereafter. Choose one of the three tours that will leave from the Fort Worth Convention Center at 8 a.m. Friday morning:

## Option 1: Tour of Bureau of Engraving & Printing's Western Currency Facility in Fort Worth

How is money made? The Western Currency Facility opened in 1990 in Fort Worth as the first government facility outside Washington, DC, to print United States paper money. The facility serves the currency needs of the western half of the nation and acts as a contingency operation in case of an emergency at the DC facility. The facility was recently named Industry of the Year and additionally earned a Pretreatment Partnership Award and Pollution Prevention award in their sweep of 2019 City of Fort Worth Environmental Awards.

The production of U.S. currency is not an easy or simple task, but one that involves highly trained and skilled craftspeople, specialized equipment, and a combination of traditional old world printing techniques merged with sophisticated, cutting-edge technology.

The BEP's public Tour and Visitor Center is a great place to learn about U.S. currency. Visitors can see where billions of dollars are printed from an enclosed walkway, which is suspended above the production floor! Over half of the nation's currency order is produced in Fort Worth. Visitors have the opportunity to walk through two floors of interactive exhibits that display currency history and the intricate art of currency manufacturing. Also located in the visitor center is the Moneyfactory Gift Shop, where the public can purchase souvenir items including uncut currency sheets and other specialty currency.

Additionally, visitors can see how currency was printed circa 1900 as plate printers conduct special printing demonstrations using a refurbished 19th century Spider press.

**NOTE:** The BEP is a secure facility. Visitors are subject to security screening prior to entering the Visitor Center. Please leave cell phones, laptops, iPads, iWatches or any electronic devices electronic equipment, backpacks, cameras, weapons (including knives, pellet guns, mace, etc.), explosives, food, and or drinks back at the hotel or on the bus. They are NOT allowed on the tour. **The tour is limited to the first 48 people who sign up.**

## Tentative Schedule:

8:00 am: Leave from the Fort Worth Convention Center  
8:30-9:00 am: Arrive at Western Currency Facility and go through Security  
9:00-11:00 am: Tour of production room floor (Self-guided tour)  
11:00 am: Depart Western Currency Facility  
11:30 am: Arrive at Fort Worth Convention Center

## Option 2: City of Fort Worth Westside Water Treatment Plant

The Westside Water Treatment Plant started operating in 2012. It is the newest and smallest of Fort Worth's five water treatment facilities. The Westside WTP is the utility's first, and currently only, water plant to use membranes. The plant started with a capacity of 12 million gallons a day and has since been expanded to 15 MGD. An expansion to 18 MGD is in progress.



Ozone is used for primary disinfection, mainly for taste and odor control and treatment preconditioning. Secondary disinfection is with chloramines, using sodium hypochlorite and liquid ammonia sulfate. The plant has full conventional treatment in front of the low-pressure membranes. Hard infrastructure was constructed for a 35 MGD facility. This allows it to be easily expanded without major construction activity. It just requires adding plate settlers to sedimentation basins, filter media to filtration basins and membrane racks to existing empty slots as the need for more capacity occurs.

Fort Worth operates a blended system, but the water from this facility is primarily used on the city's rapidly growing westside and by the cities of Aledo, Hudson Oaks and Willow Park.



In early 2024, improvements related to winter weatherization will be operational. This includes backup power generation using two 2.5-megawatt generators and enclosing the high-service pump station. These improvements are part of the utility's efforts to comply with the requirements of SB3.

Fort Worth's Public Art program commissioned a mosaic and painting for the facility. The artist's concept for the abstract artwork is to portray the membrane process in the mosaic and the treatment process in the painting.

**The tour is limited to the first 48 people who sign up.**

#### **Tentative Schedule:**

- 8:00 am: Leave from the Fort Worth Convention Center
- 8:30-9:00 am: Arrive at Westside WTP and check in
- 9:00-11:00 am: Tour of the Facility led by City Staff
- 11:00 am: Depart Facility for Convention Center
- 11:30 am: Arrive at the Fort Worth Convention Center

### **Option 3: Trinity River Authority CRWS Thermal Hydrolysis Process Facility**

The Trinity River Authority (TRA) Central Regional Wastewater System (CRWS) provides wastewater collection and treatment services to all or portions of 21 jurisdictions in the Dallas-Fort Worth (DFW) metroplex, as well as the DFW International Airport. The Solids Management Program included significant improvements to the plant's solids handling facilities and incorporated a Thermal Hydrolysis Process to produce a Class A biosolids product.



Thermal hydrolysis is a process that heats and pressurizes sludge in order to break down sludge cell walls. This enhances digestion and solids destruction; and consequently, reduces the amount of solids to be moved offsite, thus reducing transportation costs. Biogas production is also enhanced. When used in combination with downstream mesophilic digestion, the process generates Class A biosolids.

One of the primary benefits of THP is the ability to decrease the digestion reactor volume required, since the digesters post-THP can be fed at almost double the solids concentration when compared to typical mesophilic digesters. Typically, THP treated solids requires 40-50% less digester volume than comparable digesters without pre-treated solids. Due to the breakdown of cell walls, the THP process enhances digestion and solids destruction; and consequently, reduces the amount of solids to be moved off-site thus reducing transportation costs. THP treated solids followed by mesophilic digestion will meet or exceed EPA 503 Class "A" biosolids requirements. The final product exhibits excellent properties for soil blending and land application with low odor biosolids. Another added benefit of THP is that digested biosolids exhibit better dewatering properties and mechanical dewatering can produce cake biosolids typically greater than 30% with either belt filter presses or centrifuges. **The tour is limited to the first 48 people who sign up.**

#### **Tentative Schedule:**

- 8:00 am: Leave from the Fort Worth Convention Center
- 8:30-9:00 am: Arrive at THP Facility and check in
- 9:00-11:00 am: Tour of the Class A Thermal Hydrolysis Facility led by TRA Staff
- 11:00 am: Depart THP Facility for Convention Center
- 11:30 am: Arrive at the Fort Worth Convention Center

\*The Texas Water Program Committee has cultivated a wide-ranging array of technical sessions that address many pressing drinking water and clean water issues. While these sessions have been arranged into primary subject tracks for organizational purposes, attendees are encouraged to review the entire program in-depth, as many technical sessions address multiple relevant subjects.

## TENTATIVE SCHEDULE • TECHNICAL SESSIONS

### WEDNESDAY AFTERNOON, APRIL 10

|  | Drinking Water Quality  | Electrical, SCADA and I/C   | Public Information   | Young Professionals  | Industrial   |  |
|--|---|---|--|--|--|--|
| 1:20 - 1:50 pm   | <b>Best Practices and Key Findings from TCEQ's Lead Testing in School and Child Care Program</b><br>Seth Kramer<br><i>TCEQ</i>  | <b>Future Proofing a WTP SCADA System in Round Rock Texas</b><br>Nick Toussaint<br><i>Plummer</i>   | <b>Public Trust or Public Bust</b><br>Valerie Miller<br><i>Olsson</i><br>Arianne Shipley<br><i>120Water</i><br>Greg Wukash<br><i>San Antonio Water System</i>  | <b>From the Field to Design: How Sampling Results and Biological Process Modeling Uncovered Valuable Insights for Biological Phosphorus Removal at the Bull Hide Creek WWTP</b><br>Marielle Hollstein, <i>CDM Smith</i><br>Alexandra Doody, <i>CDM Smith</i><br>Kimberly Chanslor, <i>CDM Smith</i>  | <b>Microplastics - How Managing a Small Particle can Become a Macro-Challenge</b><br>Susan Spore<br><i>Brown and Caldwell</i>  |  |
| 1:55 - 2:25 pm   | <b>Boost Your Way to Compliance: Proven Chloramine Residual Control Systems for Elevated Storage Tanks</b><br>Nick Landes<br><i>Freese and Nichols</i><br>Spencer Lindsay<br><i>Freese and Nichols</i>  | <b>Creating Value with Digital Twins: Case Studies and Real World Examples</b><br>Diana Qing Tao<br><i>Tetra Tech</i><br>Melinda Tam<br><i>Tetra Tech</i>   | <b>Alright, Stop, Collaborate, and Listen...the City of Dallas is Back with a Brand-New Dam Rehabilitation Outreach Approach</b><br>Amy Campbell<br><i>Stantec</i><br>Marc Cottingame<br><i>Dallas Water Utilities</i> | <b>Apples vs Oranges: Alternative Analysis and Preselection of UV Disinfection System for Rehabilitation of 40 MGD WWTP</b><br>Keval Satra<br><i>HR Green</i><br>Scott Landers<br><i>HR Green</i>  | <b>Semiconductor Wastewater 101</b><br>Daniel Wilson<br><i>Kiewit</i>  |  |
| 2:30 - 3:00 pm   | <b>The Role of Zeta Potential in Optimal Water Treatment Operation</b><br>Lilian Nguyen, <i>City of Houston</i><br>Hunter Adams, <i>City of Wichita Falls</i><br>Matthew Wolff, <i>City of Houston</i><br>Patrick Rightmyer, <i>City of Houston</i>   | <b>Safety and Security Rehabilitation of DWU Wastewater Facilities</b><br>Roger Williamson<br><i>Mbroh Engineering</i><br>Mario Ruiz<br><i>Dallas Water Utilities</i><br>Gennady Boksiner<br><i>Freese and Nichols</i>  | <b>3D Print the WTP: Another Method to Teach and Outreach</b><br>Daniel Parish<br><i>City of Denton</i>  | <b>Optimizing Reuse to Find Value in Reclaimed Water</b><br>Heather Morriss<br><i>Ardurra</i><br>Daniel Garay<br><i>Ardurra</i><br>Jeffrey Peters<br><i>Ardurra</i>  | <b>Innovative Treatment Process for High TDS Water: Improving Recovery and Reducing Waste to Meet New Water Demands in Texas</b><br>Joel Camann, <i>Tetra Tech</i><br>Ambrose Lessard, <i>Crystal Clearwater Resources</i><br>Kenneth Nichols, <i>Tetra Tech</i> |  |
| <b>Networking Break in the Exhibit Hall • 3:00 - 3:30 PM</b> |   |   |  |  |  |  |
| 3:30 - 4:00 pm   | <b>The Evolution of Need: Adapting Older Facilities to Meet New Water Quality Goals and Regulations While Overcoming Past Design Constraints</b><br>David Jackson, <i>Freese and Nichols</i><br>Daniel Parish, <i>City of Denton</i><br>James Naylor, <i>Freese and Nichols</i><br>David Brown, <i>City of Denton</i> | <b>Freeze Protection that Beat Winter Storm Uri – Reinventing Freeze Protection to Maintain Service During Extreme Conditions</b><br>Thomas Paulmann<br><i>Hazen and Sawyer</i><br>Karl Moellering<br><i>Trinity River Authority of Texas</i><br>Roger Williamson<br><i>Mbroh Engineering</i> | <b>Touchdown! How to Score with Customers Using Social Media</b><br>TAWWA Education Division -<br><i>Consumer Outreach Committee</i>   | <b>Hydraulic Avengers in Urban Oasis: Revolutionizing Texas Utilities' Water Infrastructure with Advanced Modeling and Vigilant Distribution Oversight</b><br>Varenya Mehta, <i>Civitas Engineering Group</i><br>Showri Nandagiri, <i>North Harris County Regional Water Authority</i><br>Julian Kelly, <i>City of Pearland</i><br>Sunil Kommineni, <i>Civitas Engineering Group</i> | <b>Odor &amp; Corrosion Control</b><br><br><b>Finishing the Job: Keeping Stainless Steel Stainless</b><br>Douglas Sherman<br><i>Corrosion Probe</i><br>Chad Khattar<br><i>Corrosion Probe</i>  |  |
| 4:05 - 4:35 pm   | <b>Advancing Membrane Integrity Verification; The First TCEQ Approved Marker Based Direct Integrity Test</b><br>Steve Walden<br><i>Steve Walden Consulting</i>  | <b>City of Mansfield's Self-performed Lift Station Control Upgrades</b><br>Patrick Moseley<br><i>Plummer</i>  | <b>No One Left Behind: DC Water's Comprehensive Approach to Community and Stakeholder Engagement</b><br>Autumn McNeill<br><i>CDM Smith</i>   | <b>Squeeze Your Solids, Not Your Budget: Beneficial Biosolids End Use Evaluation</b><br>Nohemi Rey<br><i>Brown and Caldwell</i><br>Angel Bustamante<br><i>El Paso Water</i>  | <b>Odor Control Stinks Without Effective Capture</b><br>Richard Pope<br><i>Hazen and Sawyer</i>  |  |
| 4:40 - 5:10 pm   | <b>Navigating Changes with the Lead and Copper Rule</b><br>Laura Higgins<br><i>TCEQ</i>   | <b>Strategies for SCADA Master Planning for City of Shreveport, LA</b><br>Kunal Raithatha<br><i>Burns and McDonnell</i><br>Randall Patchett<br><i>Burns and McDonnell</i>   | <b>Quenching our Thirst to Communicate with Customers: Getting Attention and Changing Behaviors During Drought Messaging</b><br>Lilliana Gonzalez<br><i>San Antonio Water System</i>                                   | <b>Filtering Out the Noise: Incorporating Primary Filters into a WWTP Expansion</b><br>James Nash, <i>Black &amp; Veatch</i><br>Elaine Hung, <i>Trinity River Authority of Texas</i><br>Eric Redmond, <i>Black &amp; Veatch</i><br>Christopher Munson, <i>Black &amp; Veatch</i>   | <b>IOrganic to Inorganic – Design Details and Lessons Learned for Renovating and Expanding an Existing Biofilter System</b><br>Melissa Woo, <i>CDM Smith</i><br>Amy Robinson, <i>CDM Smith</i><br>Farida Goderya, <i>City of Fort Worth</i>                      |  |

\*The Texas Water Program Committee has cultivated a wide-ranging array of technical sessions that address many pressing drinking water and clean water issues. While these sessions have been arranged into primary subject tracks for organizational purposes, attendees are encouraged to review the entire program in-depth, as many technical sessions address multiple relevant subjects.

## TENTATIVE SCHEDULE • TECHNICAL SESSIONS

### WEDNESDAY AFTERNOON, APRIL 10

| Legislative/Regulatory   | WFP/International  | Water Conservation  | University Forum  | Diversity/Equity & Inclusion  |                |
|--|--|---|---|---|----------------|
| <b>AWWA National Update</b><br>Kevin Morley<br>AWWA  | <b>Championing Micro-Municipalities in Rural Panama</b><br>Chandler Crouch<br>Garver   | <b>Expansion of the TWDB Water Loss Control Program</b><br>Mark Mathis<br>Texas Water Development Board   | <b>Application of Bias Corrected Downscaled CMIP6 Dataset to Predict Future Drought and Flood Trends</b><br>Kushum K C<br>Lamar University<br>Annette Hernandez<br>Lamar University   | <b>Getting Back to Basics: Two Stepping our way to DEI</b><br>Dedra Ecklund<br>Lockwood Andrews & Newman  | 1:20 - 1:50 pm |
| <b>TCEQ Regulatory Updates on Water/Wastewater Issues</b><br>TCEQ  | <b>Egypt's Crystal Clear Decision: El Hanady Water Treatment Plant in Luxor Governate Chooses Direct Filtration</b><br>Karla Abella<br>CDM Smith   | <b>Pfinghting Peak-day Demand During Drought: Pflugerville's Progress to Promote Water Conservation</b><br>Brandon Pritchett<br>City of Pflugerville<br>Elisabeth English<br>City of Pflugerville | <b>Electrocoagulation of Produced Water: Surface- and Electrochemistry Considerations</b><br>Sanket Joag<br>Texas A&M University<br>Shankar Chellam<br>Texas A&M University   | <b>DEIJ Under Attack: Progress and Resilience Through Adversity</b><br>Lisa Lattu<br>Lockwood Andrews & Newman<br>Dedra Ecklund<br>Lockwood Andrews & Newman  | 1:55 - 2:25 pm |
| <b>It's Always a Water Session in Texas</b><br>Julie Nahrgang<br>WEAT/TACWA  | <b>Planning Water Treatment at a Record Scale in Rio de Janeiro, Brazil</b><br>Alicia Mata<br>Hazen and Sawyer   | <b>Conservation Through Education: How an Education Program in Dallas became a Major Contributor to Water Conservation</b><br>Victor Garcia<br>City of Dallas<br>Alicia Lee<br>City of Dallas     | <b>Sand Filter Remaining Useful Life Prediction via Machine Learning</b><br>Caylor Petty<br>LeTourneau University<br>A. Davis<br>LeTourneau University<br>D. Low<br>LeTourneau University   | <b>Embracing Generational Diversity: Leading, Managing and Collaborating Across a Multi-Generational Workforce. Is Our Umbrella Big Enough?</b><br>Aurora Gonzales<br>Kennedy Jenks Consultants             | 2:30 - 3:00 pm |
| <b>Networking Break in the Exhibit Hall • 3:00 - 3:30 PM</b>   |  |   |   |   |                |
| <b>Phase II (Small) Municipal Separate Storm Sewer System General Permit 2024 Renewal Changes</b><br>Macayla Coleman<br>TCEQ | <b>Pretreatment</b><br><b>A Proactive Monitoring Plan Down the Drain: An Investigation of Per- and Polyfluoroalkyl Substances in an Island Community's Wastewater Collection System</b><br>Eric Spargimino, CDM Smith<br>Samir Mathur, CDM Smith | <b>Maximizing Your Water Conservation Program in Niche Communities</b><br>Jacey Stewart<br>City of Georgetown   | <b>Maximizing Facultative Bacteria Growth for Bioremediation of Facultative Wastewater Lagoons</b><br>Drew Lessert, Emily Shea,<br>Jordan Valdez & Darryl Low<br>LeTourneau University  | <b>Because I Said So! Partnering with Moms to Strengthen our Workforce</b><br>Grace Sober<br>Lockwood, Andrews & Newnam<br>Rachel Ickert<br>Tarrant Regional Water District<br>Ashlyn Morgan<br>Kimley-Horn | 3:30 - 4:00 pm |
| <b>View from Washington: Federal Update from NACWA or WEF</b><br>Steve Dye<br>WEF  | <b>Pretreatment Program Audits – A TCEQ Perspective</b><br>Colleen Cook<br>TCEQ  | <b>How the Danes Found Hidden Source of Water</b><br>Rosa Marie Mathiasen<br>Danish Water Technology Alliance<br>Kristiane Jensen<br>HOFOR  | <b>Quantifying Particle-associated and Planktonic Legionella in Building Plumbing and Drinking Water Distribution Systems Across the U.S.</b><br>Lan Nguyen, Danielle M. Angert,<br>Katherine Dowdell, Eric D. Cambronne & Mary Jo Kirisits<br>University of Texas at Austin<br>Jess Brown, Caroline Russell & Melina Bautista<br>Carollo Engineers | <b>Unlocking the Inclusivity Oasis: Strategies for Recruiting in Non-Diverse Territories</b><br>Anita Cobb<br>Mead & Hunt   | 4:05 - 4:35 pm |
| <b>EPA Regulatory Updates on Water/Wastewater Issues</b><br>EPA Region 6   | <b>Wanting to be Proactive on PFAS?: Look to Pretreatment</b><br>Coby Gee<br>Freese and Nichols<br>Nathan Vassar<br>Lloyd Gosselink Rochelle & Townsend  | <b>The Importance and Impact of Water Efficiency Codes, Standards, and Regulation on Past and Future Water Supplies in Texas</b><br>Bill Hoffman<br>HW (Bill) Hoffman & Associates                | <b>Advancing Flood Risk Management: Integrating Physics-Based Machine Learning into Multi-Criteria Decision Making</b><br>Aalok Kafle<br>Lamar University<br>Venki Uddameri<br>Lamar University   | <b>Panel Discussion: Assessing the Past to Pave the Future Initiatives</b>  | 4:40 - 5:10 pm |

# TENTATIVE SCHEDULE • TECHNICAL SESSIONS

## THURSDAY MORNING, APRIL 11

|                     | Drinking Water Quality  | Resiliency, Safety & Cybersecurity  | Water Treatment & Operations   | Small Systems   | Applied Research   |
|---------------------|---|---|--|---|--|
| 9:00 - 9:30 am      | <p><b>From Old to New - Arlington's Water Modeling Journey</b><br/>Michael Mosier<br/><i>Arlington Water Utilities</i><br/>Brendan Hamilton<br/><i>Arlington Water Utilities</i></p>  | <p><b>Cybersecurity Tabletops – Building Resiliency and Relationships</b><br/>Randy Petersen<br/><i>San Jacinto River Authority</i></p>   | <p><b>FilterMAP – The Road to Optimized Filter Performance</b><br/>Trey Stewart<br/><i>Austin Water</i><br/>Olivia Beck<br/><i>Austin Water</i></p>  | <p><b>Community Engineering Corps – Striving Towards Equitable Access to Infrastructure</b><br/>Molly Sullivan<br/><i>American Water Works Association</i></p>  | <p><b>Dueling Banjos: Performance Evaluation of Two Ceramic Membrane Pilots</b><br/>Yue Sun, <i>Ardurra</i><br/>Hunter Duncan, <i>Guadalupe-Blanco River Authority</i><br/>Nathan Virdell, <i>Guadalupe-Blanco River Authority</i><br/>Cecil Holliday, <i>Guadalupe-Blanco River Authority</i></p>   |
| 9:35 - 10:05 am     | <p><b>Brominated and Iodinated DBPs in Texas Water Systems</b><br/>Zaid Chowdhury<br/><i>Garver</i></p>   | <p><b>Worst Case Scenario – Re-imagined Lift Station Design for Emergency Response</b><br/>Paul Banschbach<br/><i>Garver</i><br/>Blayne Johnson<br/><i>Trinity River Authority of Texas</i><br/>Tom Davies<br/><i>Trinity River Authority of Texas</i><br/>Steven Metzler<br/><i>Trinity River Authority of Texas</i></p> | <p><b>Unmanned Plant Operations: A Journey from Concept to Reality</b><br/>Jimmy Didehbani<br/><i>City of Grapevine</i></p>  | <p><b>Integrated Approach to Wastewater System Revitalization: A Case Study of the City of Copperas Cove</b><br/>Tristan Nickel<br/><i>RJN Group</i><br/>Christopher Altott<br/><i>City of Copperas Cove</i><br/>Daniela Lopez<br/><i>RJN Group</i></p> | <p><b>Avoiding Unintended Consequences During an 840-MGD WTP Biofiltration Conversion: The Role of Pilot Testing</b><br/>Steven Hand, <i>Carollo</i><br/>Greg Pope, <i>Carollo</i><br/>Kimberly Nield, <i>North Texas Municipal Water District</i><br/>John Montgomery, <i>North Texas Municipal Water District</i></p>                                    |
| 10:10 - 10:40 am    | <p><b>From Sea to Shining Sea: Determining the Most Suitable PFAS Removal Technology across the United States</b><br/>Viraj deSilva<br/><i>Freese and Nichols</i><br/>Donald Petrovich<br/><i>Plainfield Charter Township</i><br/>Phuong Watson<br/><i>Water Replenishment District</i></p> | <p><b>Lessons for Water Utilities from Texas Electric Utilities</b><br/>Matthew Thomas<br/><i>Xylem</i><br/>Marty Baker<br/><i>Fort Worth Water</i></p>   | <p><b>Hydraulic Energy Recovery in Water Systems – How, When and Where it Makes Cents</b><br/>Eric Dole<br/><i>Garver</i></p>  | <p><b>Kerr County: CenterPoint Septic to Sewer</b><br/>Charan Tej Tanneru<br/><i>Tetra Tech</i><br/>Don Burger<br/><i>Tetra Tech</i><br/>Charlie Hastings<br/><i>Kerr County</i></p>  | <p><b>Development of Rapid In-Field Technologies for Virus Quantification: Comparing Performance of Microfiltration Versus Ultrafiltration (WRF 5209)</b><br/>Dave MacNevin<br/><i>CDM Smith</i></p>   |
| 10:45 - 11:15 am    | <p><b>A+ Strategies for Developing Plans for LCRR School and Childcare Sampling</b><br/>Trevor McProud<br/><i>CDM Smith</i></p>   | <p><b>Holistic Security Approach to Prevention &amp; Protection Water Sector</b><br/>Robert Starnes<br/><i>Brazos River Authority</i></p>   | <p><b>Challenge to the Central Texas Water Supply: Strategy to Control Zebra Mussel Proliferation in Water Treatment Plants Serving Over One Million People</b><br/>Alexander Kuzovkov<br/><i>Black &amp; Veatch</i><br/>Dustin Rhodes<br/><i>Austin Water</i><br/>Minda Sarmiento<br/><i>Austin Water</i></p> | <p><b>Addressing Challenges to Regionalization in Rapidly-Developing Areas</b><br/>Mark Perkins<br/><i>Mead &amp; Hunt</i></p>  | <p><b>PFAS Adsorption, Destruction, and Regeneration: Updates on the Latest in PFAS Adsorption and Application of HALT for PFAS Destruction in Exhausted GAC and Adsorbent Regeneration</b><br/>Charlie Liu<br/><i>Kennedy Jenks Consultants</i></p>   |
| 11:20 am - 11:50 am | <p><b>No Data? No Problem! Predicting Water Quality in a Lake that does not Exist</b><br/>Roger Scharf<br/><i>Jacobs</i></p>  | <p><b>Performing Secure Data Driven Process Control Decisions and Design, and Mitigating Against Human Factors by Building a Process Control Digital Twin</b><br/>David Naranjo<br/><i>Trinity River Authority of Texas</i></p>   | <p><b>Pivoting to a “CMAR” Chapter of a WTP Expansion through Collaborative Delivery</b><br/>Yue Sun<br/><i>Ardurra</i><br/>Brandon Pritchett<br/><i>City of Pflugerville</i><br/>Joao Lopes Farias<br/><i>PLW Waterworks</i><br/>Jonathan Degen<br/><i>Ardurra</i></p>  | <p><b>Evaluating Alternative Treatment Technologies for a New, Greenfield WWTP</b><br/>Isaac Huacuja<br/><i>Garver</i></p>  | <p><b>Rapid Removal of Scalants from Reverse Osmosis Concentrate Using Mixed Diatom Cultures from Brackish Wetlands in South Texas</b><br/>Keisuke Ikehata<br/><i>Texas State University</i><br/>Emma Clow<br/><i>Texas State University</i><br/>Jacob Palmer<br/><i>Texas State University</i><br/>Lokendra Acharya<br/><i>Texas State University</i></p> |

# TENTATIVE SCHEDULE • TECHNICAL SESSIONS

## THURSDAY MORNING, APRIL 11

| Biosolids   | Watershed Mgmt/<br>Stormwater   | Water Reuse   | Workforce<br>Development  | Value of Water  |                     |
|---|---|---|---|---|---------------------|
| <p><b>Removal of PFAS from Biosolids Using Several Technologies – The Latest Experimental Data, Regulations, and Future Directions</b><br/>Arifur Rahman<br/><i>Jacobs</i><br/>Todd Williams<br/><i>Jacobs</i></p>                                      | <p><b>A Flood-Soaked History: Harris County Flood Control District's Historic Partnership Response</b><br/>Tara Delagarza<br/><i>Burns &amp; McDonnell</i><br/>Scott Elmer<br/><i>Harris County Flood Control District</i></p>    | <p><b>Removing a Barrier by Recognizing a Barrier: Strategies for Gaining Pathogen Removal Credit Using Reverse Osmosis Membranes</b><br/>Eric Kong<br/><i>Freese and Nichols</i><br/>Hunter Adams<br/><i>City of Wichita Falls</i><br/>Manish Kumar<br/><i>University of Texas - Austin</i><br/>Mark Southard<br/><i>City of Wichita Falls</i></p> | <p><b>The Operations Challenge Competition - A Workforce Development Program for Utilities</b><br/>Jeffrey Sober<br/><i>Garver</i><br/>John Bennett<br/><i>TRA</i></p>  | <p><b>Promising Practices of One Water in Texas: Transformative Solutions to Key Water Challenges</b><br/>Emily Simonson<br/><i>US Water Alliance</i><br/>Sarah Robinson<br/><i>US Water Alliance</i></p>                                     | 9:00 - 9:30 am      |
| <p><b>Unlocking the Potential of Your POTW: Generating Renewable Energy and Maximizing Its Value</b><br/>Jeff VanVoorhis<br/><i>Mead &amp; Hunt</i></p>   | <p><b>Solve the Design Flood Maze with a Labyrinth Spillway</b><br/>David Stanley<br/><i>STV</i><br/>Terry Winn<br/><i>STV</i></p>  | <p><b>Thinking Outside the Reservoir: How TRWD is Using Constructed Wetlands to Defer Building the Next Reservoir</b><br/>David Schoeder<br/><i>Tarrant Regional Water District</i><br/>Alan Swartz<br/><i>Plummer</i><br/>Stephen Bianchetta<br/><i>Jacobs</i><br/>Christopher Haeckler<br/><i>HDR</i></p>   | <p><b>Growing the Industry – Attracting the Next Generation of Talent</b><br/>Kitt Crabb<br/><i>San Jacinto River Authority</i><br/>Carlos Gularte<br/><i>Freese and Nichols</i></p>  | <p><b>Leveraging Triple Bottom Line Analysis and Values of Water Indicator to Advance Sustainability and Water Stewardship</b><br/>Sarah Ko<br/><i>CDM Smith</i></p>  | 9:35 - 10:05 am     |
| <p><b>Knock Out, Drag Out Fight: Centrifuge vs. Belt Filter Press – Title for Best Dewatering Technology to Squeeze the Poop at Dunn Water Reclamation Facility!</b><br/>Shyam Sivaprasad<br/><i>Stantec</i><br/>Manuel Moncholi<br/><i>Stantec</i></p> | <p><b>A Case Study on Water Supply Protection Through Integrated Stream and Stormwater Protection Measures</b><br/>Troy Dorman<br/><i>Halff Associates</i></p>  | <p><b>Planning a Reclaimed Water System: The Best Customer May Be Yourself</b><br/>Alan Moon<br/><i>Quiddity Engineering</i><br/>Brandon Pritchett<br/><i>City of Pflugerville</i></p>  | <p><b>Facing the Workforce Challenge Head On: Fort Worth Water Utility's Multi-Faceted Approach</b><br/>Dylan Christenson<br/><i>Garver</i><br/>Shane Zondor<br/><i>Fort Worth Water</i><br/>Shannon Dunne<br/><i>Fort Worth Water</i><br/>Julie Nahrgang<br/><i>WEAT/TACWA</i></p> | <p><b>There's a Flag on the Play! Learn How to Use Water UMP for Your Utility Communications Needs!</b><br/><i>TAWWA Education Division - Consumer Outreach Committee</i></p>   | 10:10 - 10:40 am    |
| <p><b>Ferric, the Swiss Army Knife of Solids Processing: Odor, Phosphorus, Struvite, H2S and SOx Control</b><br/>Scott Hardy<br/><i>Hazen and Sawyer</i></p>  | <p><b>Flood Plan on the Horizon: What Texas Water Utilities Should Know and Do</b><br/>David Rivera<br/><i>Freese and Nichols</i></p>   | <p><b>A Detailed Explanation and Examples of the Latest Updates to 30 TAC Chapter 217: Design Criteria for Wastewater Systems for Reclaimed Water Distribution Systems</b><br/>Louis Herrin<br/><i>TCEQ</i><br/>Baltazar Lucero-Ramirez<br/><i>TCEQ</i></p>   | <p><b>Tapping into the Future Generation of Water Workers</b><br/>Riley Teague<br/><i>Garver</i><br/>Abigail Hall<br/><i>Garver</i></p>   | <p><b>Irving Summer Camps Part II: Focusing on Wastewater and Stormwater With Kids to Promote Understanding of Vital Environmental Challenges and Begin to Build Civic Awareness</b><br/>Donna Starling<br/><i>Irving Water Utilities</i></p> | 10:45 - 11:15 am    |
| <p><b>Model-Based Performance and Financial Comparison of Struvite and Brushite Sequestration of Phosphorus</b><br/>Nicole Stephens<br/><i>Stantec</i><br/>Sara Arabi<br/><i>Stantec</i></p>  | <p><b>Urban Flood Resilience for Texas and Beyond: Global Lessons for Climate Adaptation</b><br/>Dan Christian<br/><i>Tetra Tech</i><br/>Nefi Garza<br/><i>Tetra Tech</i><br/>Sabrina Santiago<br/><i>City of San Antonio</i></p> | <p><b>Implementing SB 1289 and its Changes to the Disposal of Reclaimed Water</b><br/>Erika Crespo<br/><i>TCEQ</i></p>  | <p><b>Priming the Pump: What to do When the Talent Well Runs Dry!</b><br/>Archana Sharma<br/><i>Mead &amp; Hunt</i><br/>Ashok Perera<br/><i>Atkins North America</i><br/>Jake White<br/><i>Arcadis</i><br/>Karen Steele<br/><i>Oklahoma Department of Environmental Quality</i></p> | <p><b>Value of Water Panel Discussion</b></p>   | 11:20 am - 11:50 am |

# TENTATIVE SCHEDULE • TECHNICAL SESSIONS

## THURSDAY AFTERNOON, APRIL 11

|  | Wastewater Collection  | Utility Management   | Water Treatment & Operations  | MRRDC<br>(Wastewater Treatment)  |
|--|--|--|---|--|
| 1:10 - 1:40 pm   | <p><b>Under a Creek and Through the Woods...and a Golf Course, Dog Park, Baseball Fields...and Parks and Recreation Trail System</b><br/>Amanda Voss<br/><i>Trinity River Authority of Texas</i><br/>Carlos Ramos<br/><i>Trinity River Authority of Texas</i></p>            | <p><b>Aging Infrastructure vs. Growing Water Demands – Who Will Win?</b><br/>Marisa Vergara<br/><i>STV</i><br/>Drew Molly<br/><i>Corpus Christi Water Utility</i><br/>Gil Barnett<br/><i>STV</i></p>   | <p><b>AI-Enhanced Water Distribution and Quality Modeling with Real-Time IoT Data - A Case Study of the Houston Water</b><br/>Satish Tripathi<br/><i>City of Houston</i></p>  | <p><b>Doing More with Less: Innovative, Low-Cost Improvements to Increase WRRF Capacity</b><br/>Anton Dapcic<br/><i>Carollo</i><br/>Rupender Remanuri<br/><i>Carollo</i><br/>Toshio Shimada<br/><i>Carollo</i></p>                               |
| 1:45 - 2:15 pm   | <p><b>Enhancing Wastewater Management Using Full-System Hydraulic Models: The City of Waco's Comprehensive Master Plan Update</b><br/>Daniela Lopez<br/><i>RJN Group</i><br/>Mike Norman<br/><i>City of Waco Water Utilities</i></p>   | <p><b>Behind the Scenes: Implementing Our Newly Defined CIP Process Governance and Workflow at DWU</b><br/>Rob Hoffman<br/><i>HDR</i><br/>Marc Cottingame<br/><i>Dallas Water Utilities</i></p>  | <p><b>Mud, Sweat and Tears: Lessons from Sludge Collector Testing</b><br/>Ana Garcia<br/><i>Hazen and Sawyer</i><br/>Drew Molly<br/><i>Corpus Christi Water Utility</i><br/>William Creech<br/><i>Corpus Christi Water Utility</i></p>  | <p><b>Required Changes to Activated Sludge Processing Units Resulting from the Latest Updates to 30 TAC Chapter 217: Design Criteria for Wastewater Systems</b><br/>Louis Herrin<br/><i>TCEQ</i><br/>Baltazar Lucero-Ramirez<br/><i>TCEQ</i></p> |
| 2:20 - 2:50 pm   | <p><b>Non-clog Pump Selection: More Than Just an Operating Point</b><br/>Bo Copeland<br/><i>Hazen and Sawyer</i></p>   | <p><b>Transforming a Municipality into a Smart City</b><br/>Ava Cares<br/><i>City of Galveston</i><br/>Juan Berumen<br/><i>City of Galveston</i><br/>Mark Glaser<br/><i>City of Galveston</i></p>  | <p><b>Resiliency is not Just About Infrastructure, It's About People Too: Austin Water's Approach to Making Our Employees More Resilient</b><br/>Stephanie Sue<br/><i>Austin Water</i><br/>Julie Hollandsworth<br/><i>Austin Water</i><br/>Teresa Dixon<br/><i>Austin Water</i></p> | <p><b>PFAS in Wastewater – From Research to Reality</b><br/>Samir Mathur<br/><i>CDM Smith</i></p>  |
| <b>Networking Break in the Exhibit Hall • 2:50 - 3:20 PM</b> |  |  |   |  |
| 3:20 - 3:50 pm   | <p><b>The Stakes are High: Emergency Lift Station Rehabilitation in a World Heritage Site</b><br/>Elizabeth Lara<br/><i>Garver</i></p>   | <p><b>City of Houston Uses Goldilocks Timing of Wastewater Model Updates</b><br/>William Kuehne<br/><i>Ardurra</i><br/>Fazle Rabbi<br/><i>City of Houston</i><br/>Pratistha Pradhan<br/><i>City of Houston</i></p>   | <p><b>Partitioning a Filtered Water Flume During Construction: Hydraulic, Space, and Backup Disinfection Considerations</b><br/>Gabriel Trejo<br/><i>Arcadis</i></p>  | <p><b>Innovative Technologies to Handle Increasing Loads with Existing Infrastructure</b><br/>Brandt Miller<br/><i>Hazen and Sawyer</i><br/>Annie Jiang<br/><i>Hazen and Sawyer</i></p>  |
| 3:55 - 4:25 pm   | <p><b>Well That's Going to be Difficult – Creating Austin Water's PACP Inspection Difficulty Map</b><br/>Brent Bassett<br/><i>Austin Water</i></p>   | <p><b>The Southwest Pump Station Project: Juggling UTRWD's Delivery Needs, Costs and Schedule... Without Dropping the Ball</b><br/>John Himanen, <i>HDR</i><br/>Kurt Staller, <i>Upper Trinity Regional Water District</i><br/>Adam McKnight, <i>Upper Trinity Regional Water District</i><br/>Jonathan Bailey, <i>HDR</i></p> | <p><b>Intelligent Water Systems 101: How Big Data can be Packaged into Small Improvements to Optimize Operations</b><br/>Ikram Sayed<br/><i>Garver</i><br/>Peter Stencel<br/><i>Dallas Water Utilities</i></p>  | <p><b>Decarbonization of Biological Nutrient Removal</b><br/>Leon Downing<br/><i>Black &amp; Veatch</i></p>  |
| 4:30 - 5:00 pm   | <p><b>When Less Is More: A Wastewater Treatment Consolidation Case Study</b><br/>Kendall Ryan<br/><i>Freese and Nichols</i><br/>Jameson Appel<br/><i>City of Pearland</i><br/>Bailey Keller<br/><i>Freese and Nichols</i><br/>Jared Barber<br/><i>Freese and Nichols</i></p> | <p><b>Innovative Design Tools - How is Digital Water Impacting Decisions?</b><br/>Eric Redmond<br/><i>Black &amp; Veatch</i><br/>Elaine Hung<br/><i>Trinity River Authority of Texas</i><br/>Prachi Salekar<br/><i>Black &amp; Veatch</i><br/>Tania Ho<br/><i>Trinity River Authority of Texas</i></p>                         | <p><b>Chemical SOPs Reinvented: Training for Tomorrow's Water Plant</b><br/>Corey Smith<br/><i>Civitas Engineering Group</i><br/>Mohamad Baydoun<br/><i>CDM Smith</i><br/>Mahith Nadella<br/><i>Civitas Engineering Group</i></p>   | <p><b>Square Pegs in Round Holes: HDR's Innovative and Adaptive Approach to Aerobic Granular Sludge (AGS) Design</b><br/>Hayden DeLay<br/><i>HDR</i><br/>Eric Evans<br/><i>HDR</i></p>   |



# TENTATIVE SCHEDULE • TECHNICAL SESSIONS

## THURSDAY AFTERNOON, APRIL 11

| Wastewater Operations & Maintenance  | Asset Management   | Water Distribution   | Construction Issues   | Laboratory   |                |
|--|--|--|---|--|----------------|
| <p><b>Two Mass Balances are Better Than One: Solving Solids Mysteries Coupling Two DWU WWTPs</b><br/>Caitlin Ruff, <i>Black &amp; Veatch</i><br/>Regina Stencel, <i>Dallas Water Utilities</i><br/>Adeola Sorinolu, <i>Black &amp; Veatch</i><br/>Andrew Shaw, <i>Black &amp; Veatch</i></p> | <p><b>Austin Water's Approach to a Transparent and Defensible CIP</b><br/>Daniel Lamas<br/><i>Austin Water</i></p>   | <p><b>A Decade+ in the Making, the Full Story of the Northeast Transmission Water Line</b><br/>Mackrena Ramos, <i>Lockwood, Andrews &amp; Newnam</i><br/>Melissa Mack, <i>Lockwood, Andrews &amp; Newnam</i><br/>Venus Price, <i>City of Houston</i></p>   | <p><b>Digging Deep: Tapping into Lake Travis for a Dependable Water Supply</b><br/>Russell Gibson<br/><i>Freese and Nichols</i><br/>Karen Bondy<br/><i>BCRUA</i><br/>Joerg Moser<br/><i>Walker Partners</i></p>   | <p><b>Cleansing the Flow Data: Unveiling the Power of Statistical Analysis for Masterful Wastewater Planning</b><br/>Hasibul Hasan<br/><i>Garver</i></p>   | 1:10 - 1:40 pm |
| <p><b>MBR 101 - Operational Mindset</b><br/>Jenny Beth Murray<br/><i>Plummer</i><br/>Paula Monaco<br/><i>Plummer</i><br/>Ana Peña-Tijerina<br/><i>Plummer</i></p>  | <p><b>You Bet Your Assets: Reducing the Risk of Failure in Corrugated Metal Pipe Stormwater Systems</b><br/>Fernie Silva<br/><i>Brown and Caldwell</i><br/>Oscar Camacho<br/><i>El Paso Water</i></p>  | <p><b>Using Water AMI Data to Improve the Customer Experience and Utility Operations</b><br/>Jeff Evans<br/><i>VASS Solutions</i><br/>Meghan Patronella<br/><i>San Antonio Water System</i></p>  | <p><b>Breaking the Mold: Austin Water's Journey to Collaborative Delivery</b><br/>Erik Kunkel<br/><i>Austin Water</i><br/>Jeff Dahm<br/><i>Austin Water</i><br/>Charles Celauro<br/><i>Austin Water</i></p>   | <p><b>The Achilles' Heel of Water Quality Data: Sample Collection QA/QC</b><br/>Hunter Adams<br/><i>City of Wichita Falls</i><br/>Mark Southard<br/><i>City of Wichita Falls</i><br/>Steve Ash, <i>Texas A&amp;M Engineering Extension Service</i><br/>Elizabeth Turner<br/><i>Pace Analytical</i></p>   | 1:45 - 2:15 pm |
| <p><b>Biofilm Enabled Resiliency in Wastewater Treatment to Extreme Wet Weather Events</b><br/>Priyanka Ali, <i>Rice University</i><br/>Lauren Stadler, <i>Rice University</i><br/>Jeseth Delgado Vela, <i>Duke University</i><br/>Andrew Shaw, <i>Black &amp; Veatch</i></p>                | <p><b>Using a Dynamic Risk Based Planning Approach for the City of Fort Myers Infrastructure Improvements Program</b><br/>Pradeep Nagarajan<br/><i>GHD</i></p>   | <p><b>A 704-MGD Balancing Act: Modernizing Critical Transmission Infrastructure While Maintaining Operability</b><br/>Donna Stephens<br/><i>Tarrant Regional Water District</i></p>  | <p><b>Thinking Outside the Circle: Novel Use of Non-Circular Pipe Provides Solution to Shallow Large Diameter Interceptor Sewer Challenges in Dallas</b><br/>Michael Hagen<br/><i>Freese and Nichols</i><br/>Joe Felipe<br/><i>Dallas Water Utilities</i></p>                                   | <p><b>Controlling Laboratory Documents Through Sharepoint</b><br/>Anna Polanco-Ramos<br/><i>San Antonio Water System</i></p>   | 2:20 - 2:50 pm |
| <b>Networking Break in the Exhibit Hall • 2:50 - 3:20 PM</b>   |  |  |   |  |                |
| <p><b>Bug Race: Using Nitrification Rate Testing to Troubleshoot Treatment and Calibrate Models</b><br/>Noe Martinez<br/><i>Austin Water</i><br/>Wesley Tait<br/><i>Austin Water</i></p>   | <p><b>Trust the Data: Lessons Learned from Water Quality Monitoring in the City of Galveston</b><br/>Alanna Maya<br/><i>Badger Meter</i><br/>Trino Pedraza<br/><i>City of Galveston Water Department</i><br/>Brendt Thompson<br/><i>Badger Meter</i></p>                                   | <p><b>Comparative Analysis of Water Flushing Techniques: Unidirectional Flushing (UDF) vs. Neutral Output Discharge Elimination System (NO-DES) for Effective Distribution System Water Quality Management</b><br/>Swaroop Puchalapalli<br/><i>STV</i></p> | <p><b>"It's Frankly Not Fair": When Installing a 36" Force Main Through a Tight Corridor is EVEN More Challenging Than Expected</b><br/>Victoria Burbridge, <i>Kimley-Horn and Associates</i><br/>Josh Kercho, <i>Kimley-Horn and Associates</i><br/>Liam Conlon, <i>City of Fort Worth</i></p> | <p style="background-color: #004a6b; color: white; text-align: center;"><b>Biosolids</b></p> <p><b>Special Topic: PFAS and Innovative Treatment Techniques</b><br/>Corey Williams<br/><i>WEF Trustee and SmartCover Systems CEO</i></p>  | 3:20 - 3:50 pm |
| <p><b>Energy Savings While Fighting Fires in Wastewater Treatment Operations</b><br/>Marco Ramos<br/><i>San Antonio Water System</i><br/>Eric Wahlberg<br/><i>WasteWater Technology Trainers</i></p>   | <p><b>Empowering a Robust and Sustainable Asset Management Program with Cutting-Edge Visualization Tools</b><br/>Marcela Sion<br/><i>Hazen and Sawyer</i><br/>Marta Ortiz<br/><i>Albuquerque Bernalillo County Water Utility Authority</i><br/>Dilip Kumar<br/><i>Hazen and Sawyer</i></p> | <p><b>Riding the Chloramine Wave: A Rotational Approach to Boosting Residual in Ground Storage Tanks</b><br/>Stuart Williams<br/><i>Kimley-Horn and Associates</i></p>   | <p><b>Sequencing Success - Maintaining Plant Operations While Expanding a Wastewater Treatment Plant</b><br/>Darpan Chroghe<br/><i>Freese and Nichols</i><br/>Kevin O'Neill<br/><i>City of College Station</i><br/>Gennady Boksiner<br/><i>Freese and Nichols</i></p>                           | <p><b>PFAS: The Pyrolysis Paradox</b><br/>Caitlin Ruff<br/><i>Black &amp; Veatch</i><br/>Patrick McNamara<br/><i>Black &amp; Veatch</i></p>  | 3:55 - 4:25 pm |
| <p><b>Drain or Gain? Uncovering the Secrets to an Effective Maintenance Management Strategy to Increase Equipment Reliability</b><br/>Simon Watson<br/><i>Black &amp; Veatch</i><br/>Daniel Halter<br/><i>Dallas Water Utilities</i><br/>Robert Mikel<br/><i>Dallas Water Utilities</i></p>  | <p><b>Lakes to Taps: Tyler's Comprehensive and Holistic Water System Review and Improvement Plan</b><br/>Preston Dillard, <i>Half Associates</i><br/>Kate Dietz, <i>City of Tyler</i><br/>Jacob Yanker, <i>City of Tyler</i><br/>Emily Wright, <i>Half Associates</i></p>                  | <p><b>Taste, Odor, Appearance, and the Confusion with SMCLs</b><br/>Hunter Adams, <i>City of Wichita Falls</i><br/>Andrea Dietrich, <i>Virginia Tech</i><br/>Gary Burlingame, <i>ESPRI</i><br/>Keisuke Ikehata, <i>Texas State University</i></p>          | <p><b>Too Big to Fail: Construction Sequencing to Maintain Operation of East Water Purification Plant (EWPP) During Repairs and Replacements</b><br/>Amanda Liu, <i>CDM Smith</i><br/>Megan Miller, <i>CDM Smith</i><br/>Kresimir Begic, <i>City of Houston</i></p>                             | <p><b>Delivering a State-of-the-Art Biosolids Management System for NTMWD's Largest WWTP</b><br/>Steve Frost, <i>Carollo Engineers</i><br/>David Clisch, <i>North Texas Municipal Water District</i><br/>Arvind Damodara Kannan, <i>Carollo Engineers</i><br/>Rudy Killian, <i>Carollo Engineers</i></p> | 4:30 - 5:00 pm |

**TENTATIVE SCHEDULE • TECHNICAL SESSIONS**  
**FRIDAY MORNING, APRIL 12**

|  | Wastewater Collection  | Utility Management   | Water Resources  | MRRDC<br>(Wastewater Treatment)   |
|--|--|--|--|---|
| 8:30 - 9:00 am   | <b>Transitioning Away From Collection System Concrete Structures</b><br>Vibhuti Pandey<br>Jacobs   | <b>When it's Better to KISS than Fight: On-Call Repair Contracting and Keeping It Super Simple</b><br>Rafael Ortega<br>Aurora Tech Services  | <b>Pumped Up: Hydraulic Design Challenges to Pump 55 MGD from Lake Ralph Hall</b><br>Sam Meisner<br>Freese and Nichols<br>Elizabeth Boddicker<br>Upper Trinity Regional Water District<br>Amanda Powers<br>Freese and Nichols<br>Jacob Pannell<br>Freese and Nichols | <b>Part 2: The Village Creek Water Reclamation Facility is Just Gritting Started</b><br>Amy Robinson<br>CDM Smith<br>Farida Goderya<br>City of Fort Worth   |
| 9:05 - 9:35 am   | <b>Design of a Large Diameter HDPE Wastewater Force Main via Horizontal Directional Drilling Under the Colorado River</b><br>Nick Lowe<br>AECOM  | <b>Friendswood Resilience: An Operations-Driven Master Planning</b><br>Wade Parks<br>Garver<br>Jildardo Arias<br>City of Friendswood<br>Rene Ibarra<br>City of Friendswood<br>Gary Sober<br>Garver   | <b>Increasing Reliability and Certainty for State Water Management Through Proactive Endangered Species Conservation Planning: The Case of the Guadalupe River Habitat Conservation Plan</b><br>Jana Gray<br>Guadalupe-Blanco River Authority                        | <b>How to Successfully Start-Up a New BNR Process: A Case Study from Pflugerville's Central WWTP Conversion to BNR</b><br>Chris Callahan<br>Freese and Nichols<br>Brandon Pritchett<br>City of Pflugerville<br>Coby Gee<br>Freese and Nichols |
| 9:40 - 10:10 am  | <b>Integrative Approach to Addressing Inflow and Infiltration in Houston's Sanitary Sewer System: Insights, Mitigation Strategies, and Scalable Solutions</b><br>Fazle Rabbi, City of Houston<br>Hazem Gheith, Arcadis<br>Shah Rahman, Arcadis | <b>Future of Water and Wastewater Infrastructure and Policy in Sugar Land – A Story of Collaboration Between Planning and Engineering</b><br>Ishita Rahman, Freese and Nichols<br>Katie Clayton, City of Sugar Land<br>Alexis Garcia, Freese and Nichols<br>Kendall Ryan, Freese and Nichols | <b>Complex Raw Water Intake Construction Challenges on the Mighty Brazos</b><br>Samantha Stoughtenger Branson<br>Gulf Coast Water Authority<br>Naveen Chillara<br>Freese and Nichols   | <b>You'll Get More Flies with Honey than with PAA... Full-scale Disinfection Testing at the Hutto South WWTP</b><br>Michael Watts<br>Garver<br>Randy Lock<br>Brazos River Authority   |
| <b>Networking Break in Technical Session Area • 10:10 - 10:20 AM</b> |  |  |  |   |
| 10:20 - 10:50 am   | <b>City of Houston Utilizes Existing Wastewater Collection Models as Foundation for Real-Time Connections</b><br>William Kuehne, Ardurra<br>Lesny Mejia, City of Houston<br>Pratistha Pradhan, City of Houston<br>Fazle Rabbi, City of Houston | <b>1000 Leaks a Month - How SAWS Distribution Managed the Hottest Summer on Record</b><br>Lance Rothe<br>San Antonio Water System<br>Carlos Mendoza<br>San Antonio Water System<br>Daniel Glenney<br>San Antonio Water System  | <b>Lubbock: Implementing a Perpetual Water Supply Strategy</b><br>Greg Baier<br>City of Lubbock<br>David Dunn<br>HDR   | <b>Peninsula WRP - Expansion Design and Lessons Learned</b><br>Jenny Beth Murray<br>Plummer<br>Paula Monaco<br>Plummer<br>Gage Guffy<br>Upper Trinity Regional Water District   |
| 10:55 - 11:25 am   | <b>How to Cross that River! HDD as a Solution to Challenges of Serving Unsewered Communities</b><br>Don Burger<br>Tetra Tech<br>Charlie Hastings<br>Kerr County  | <b>Preparing Utilities for the Post - Digital Era</b><br>Freddie Guerra<br>GHD Digital   | <b>Austin's Water Supply Plan for the Future - ASR and Identifying Favorable Sites for Piloting and Testing</b><br>Kristi Shaw<br>HDR<br>Helen Gerlach<br>Austin Water   | <b>IFAS, Not so Fast! Process Changes to Limit Impacts</b><br>Kennedy Reyes<br>Garver<br>Sean Scuras<br>Garver<br>Wade Parks<br>Garver<br>Zahra Anwar<br>Garver   |
| 11:30 - Noon   | <b>Taylor-made for Development: Samsung's Coming to Town</b><br>Heather Lindner<br>HDR<br>Danny Applegate<br>HDR<br>Lou Portillo<br>HDR<br>Jim Gray<br>City of Taylor  | <b>From a Sprint to a Marathon: The Race to Restoring a Failing Water Distribution System in Jackson, MS</b><br>Patrick Brown<br>Stantec<br>Kristen Whatley<br>Stantec<br>Ted Heniffin<br>JXN Water  | <b>Time for an Upgrade: Emergency Spillway Gate Replacement at the Saltwater Barrier Dam</b><br>Daniel Worley<br>Guadalupe-Blanco River Authority<br>Chris Mason<br>Black & Veatch   | <b>High-Value, Low-Cost Disinfection: Human-Computer Teamwork Made the Dream Work!</b><br>Tania Ho<br>Trinity River Authority of Texas<br>Raudel Juarez<br>Trinity River Authority of Texas<br>Darpan Chorgha<br>Freese and Nichols           |

**TENTATIVE SCHEDULE • TECHNICAL SESSIONS**  
**FRIDAY MORNING, APRIL 12**

| Wastewater Operations & Maintenance  | Asset Management  | Water Distribution  | Construction Issues   | Infrastructure Financing  |                 |
|--|---|---|---|---|-----------------|
| <b>Innovative Trickling Filter to BNR Conversion Plan for Nutrient Removal</b><br>Randall Wirtz<br><i>Strand Associates</i><br>Mark Rudolf<br><i>Strand Associates</i>   | <b>The Future is Here: Leveraging AI Driven Failure Prediction for Houston Water Distribution Mains Asset Management Prioritization</b><br>Nima Ghahremani<br><i>Grundfos CBS</i><br>Jin Ye<br><i>City of Houston</i>   | <b>The A, B, Cs of Making an Operational Water Model</b><br>Karen Burgi<br><i>Black &amp; Veatch</i><br>Timothy Ybarra<br><i>San Antonio Water System</i>   | <b>First Vertical Curve Microtunnel in Texas</b><br>Jesse Guerra<br><i>Plummer</i>  | <b>Keeping Up with Infrastructure and Growth: How Round Rock is Optimizing Impact Fees</b><br>Angie Flores<br><i>Raftelis Financial Consultants</i><br>Michael Thane<br><i>City of Round Rock</i> | 8:30 - 9:00 am  |
| <b>Empowering Teamwork: Achieving Remarkable Energy Efficiency and Enhanced Treatment at Leon Creek Wastewater Treatment Plant</b><br>Tram Doan<br><i>San Antonio Water System</i>   | <b>Affecting the Grand Trifecta - Integration of Condition Assessment Program to Launch Multi-Billion Dollar CIP Updates</b><br>Nicole Conner<br><i>Kennedy Jenks</i><br>Wes Pierce<br><i>Trinity River Authority of Texas</i>  | <b>Investigate-Design-Build Solves Suspected Leak in a 72-inch PCCP Transmission Main under the Trinity River in Dallas, TX</b><br>Mike Larsen, <i>Structural Technologies</i><br>Jeff Hadaway, <i>Dallas Water Utilities</i><br>Luis Bodington, <i>Dallas Water Utilities</i><br>Murat Engindeniz, <i>Simpson Gumpertz &amp; Heger</i> | <b>Nailing It: Complex Point Repairs for Lift Stations</b><br>Paula Barrera<br><i>Civitas Engineering Group</i><br>Alan De Leon<br><i>Houston Public Works</i><br>Yongki Shim<br><i>Civitas Engineering Group</i> | <b>How Two Cities Improved Cybersecurity and Resilience Through Holistic Funding Strategies</b><br>Jeff Kanyuch<br><i>Jacobs</i><br>Jennifer Henke<br><i>Jacobs</i>                               | 9:05 - 9:35 am  |
| <b>Change Management, It's Real!</b><br>Matthew Jalbert<br><i>Trinity River Authority of Texas</i><br>Jennifer Moore<br><i>Trinity River Authority of Texas</i><br>John Bennett<br><i>Trinity River Authority of Texas</i><br>Douglas Short<br><i>Trinity River Authority of Texas</i> | <b>Living Platform for O&amp;M, CIP, and Long-range Planning of Lift Stations by Integrating Condition Assessment, SCADA, and Work Order Management System</b><br>Bo Cao, <i>Jacobs</i><br>Fazle Rabbi, <i>City of Houston</i><br>Pratistha Pradhan, <i>City of Houston</i> | <b>Up to Speed on LCRR/LCRI Inventory? Irving's Customized Dashboard Shows at a Glance What We Know and How Fast We are Moving</b><br>Patrick Forrest<br><i>Irving Water Utilities</i>  | <b>Spicewood 54"/66" Emergency Sewer Repairs Case Study and Lessons Learned</b><br>Michael Persyn<br><i>K Friese + Associates</i>   | <b>EPA's WIFIA Funding Program: A Gem Hidden in Plain Sight</b><br>Tom Entsminger<br><i>STV</i>   | 9:40 - 10:10 am |

**Networking Break in Technical Session Area • 10:10 - 10:20 AM**

|  |   |  |   |  |                  |
|--|---|--|---|--|------------------|
| <b>Richmond Reclaims Even More Treated Effluent</b><br>Howard Christian<br><i>City of Richmond</i><br>Devyn Warren<br><i>Kimley-Horn and Associates</i><br>Mike Shelton<br><i>Kimley-Horn and Associates</i> | <b>Capital Financing and Asset Management</b><br>Sheryl Parsons<br><i>Mead and Hunt</i>   | <b>Into the Unknown: An Investigation into a Proactive Utility's Water Loss Program</b><br>Dan Strub<br><i>Austin Water</i><br>Alicia Smiley<br><i>Black &amp; Veatch</i><br>Andrew Chastain-Howley<br><i>Black &amp; Veatch</i>   | <b>How Will Unprecedented Times and Federal Investment Impact Utilities Now and in the Future?</b><br>Wayne Hofmann<br><i>Wade Trim</i>   | <b>Tapping into TWDB Funding: Alternative Delivery Project Guidance For Dummies</b><br>Hillary Fontenot<br><i>Burns &amp; McDonnell</i>  | 10:20 - 10:50 am |
| <b>Wet Weather Woes? The First Tertiary Filters Approved for Storm Water Flows at the City of Garland</b><br>Tasie Kade<br><i>Carollo Engineers</i><br>Barron Cooper<br><i>City of Garland</i>               | <b>Radical Transparency: How Austin Water's R&amp;B CIP Allocation Process Depends Upon and Benefits Enterprise Asset Data</b><br>Martin Tower<br><i>Austin Water</i> | <b>Operations to CIP: How a Calibrated Water Model Boosted a Utility's Return on Investment</b><br>Adam Willard<br><i>New Braunfels Utilities</i><br>Dave Christiansen<br><i>Freese and Nichols</i>  | <b>Successfully Navigating Planning and Commissioning Challenges for a Greenfield \$1.6B Water System</b><br>Aliza Caraballo<br><i>NTMWD</i><br>Mark Miner<br><i>Garney Construction</i>          | <b>Funding Programs: Are They Worth the Lift? Determining the Best Funding Fit for Your Projects</b><br>Stacy Barna<br><i>CDM Smith</i>  | 10:55 - 11:25 am |
| <b>The Impact of PFAS on Water Reclamation Facilities; Current Regulatory Trends and How to Prepare</b><br>Eric Spargimino<br><i>CDM Smith</i>   | <b>Locating Sewer Defects Using Remote Earth Observation</b><br>Cynthia Baughman<br><i>City of Garland</i>  | <b>Waste Not, Want Not – Zero-Discharge Distribution Main Flushing and Filtration to Enhance Water Clarity</b><br>Justin Bartlett, <i>Civitas Engineering Group</i><br>Joni Synatschk, <i>City of Houston</i><br>Phillip Goodwin, <i>City of Houston</i><br>Rutika Nanivadekar, <i>Civitas Engineering Group</i> | <b>How Drone Data is Being Used by Water Districts &amp; Their Construction Partners to Manage Capital Projects: A Case Study</b><br>Ryan Baker<br><i>Arch Aerial</i><br>Chase Juhl<br><i>DEC</i> | <b>Transforming Texas Border Communities: The Impact of NADBank's EPA-Funded Border Environment Infrastructure Fund (BEIF) on a Small Texas Town</b><br>Susana Blausler, <i>Brown and Caldwell</i><br>Jesus Garza, <i>NADBank</i><br>Fernie Silva, <i>Brown and Caldwell</i> | 11:30 - Noon     |



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# TEXAS WATER 2024 SCHOLARSHIP GOLF TOURNAMENT

Tuesday, April 9th • The Golf Club at Fossil Creek

Help raise funds for scholarships to assist students that have families in the water and wastewater industry. All profits from the Texas Water Golf Tournament go toward the scholarship programs.

As an added benefit, you get to play golf at the popular The Golf Club at Fossil Creek, 3401 Clubgate Dr, Fort Worth. Gorgeous rolling fairways and 18 testing holes all intertwined throughout streams created by Fossil Creek. This exclusive, par-72 public course, designed by America's foremost golf legend, Arnold Palmer, winds its way through 1,150 acres of natural Texas terrain. And, don't forget to get plenty of raffle tickets! The more tickets you buy with your registration, the more scholarship funds we raise!

7 a.m. Check-in, breakfast. Lunch following. Maximum 144 players. No on-site registration. 8:30 a.m. Shotgun Scramble!

## CHOOSE YOUR LEVEL

### INDIVIDUAL REGISTRATION

\$175/person by 3/11/24; \$100 after; No later than 3/25/24

### TEAM REGISTRATION

\$700/team by 3/11/24; \$800 after; No later than 3/25/24

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(2) Team registrations, 8 raffle tickets, firm logo on cooler, signage, towel, and sponsorship at every hole.

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GOLD PACKAGE: Team registration, 4 raffle tickets, firm logo on tournament signage, towel, (2) hole sponsorship.

SILVER PACKAGE: Team registration, 4 raffle tickets, firm logo on tournament signage, towel, (1) hole sponsorship.

## INDIVIDUAL OR TEAM CAPTAIN

NAME: \_\_\_\_\_

Firm Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Daytime Phone: \_\_\_\_\_

Email: \_\_\_\_\_

## TEAM PLAYER NAMES

#2: \_\_\_\_\_

#3: \_\_\_\_\_

#4: \_\_\_\_\_

Tournament Chair:  
Tim Allen, 817-925-7236  
tim.allen@fortworthtexas.gov

PAYMENT METHOD:  Check Payable to "Texas Water"

Card #: \_\_\_\_\_ Expiration: \_\_\_\_\_

Cardholder Name: \_\_\_\_\_ Security Code: \_\_\_\_\_

Credit Card Billing Address: \_\_\_\_\_

Signature: \_\_\_\_\_

## CALCULATE FEES

Title Package..... \$7,500 ..... \$ \_\_\_\_\_

Diamond Package..... \$5,000 ..... \$ \_\_\_\_\_

Platinum Package..... \$2,500 ..... \$ \_\_\_\_\_

Gold Package..... \$1,750 ..... \$ \_\_\_\_\_

Silver Package..... \$1,500 ..... \$ \_\_\_\_\_

### Sponsorship Opportunities

\_\_\_ Registration Table (@ \$200) ..... \$ \_\_\_\_\_

\_\_\_ Hole in One (@ \$200) ..... \$ \_\_\_\_\_

\_\_\_ Longest Drive, Men (@ \$200)..... \$ \_\_\_\_\_

\_\_\_ Longest Drive, Women (@ \$200)..... \$ \_\_\_\_\_

\_\_\_ Closest to the Pin (@ \$200)..... \$ \_\_\_\_\_

\_\_\_ Hole (@ \$200) ..... \$ \_\_\_\_\_

Email High Resolution Logo for Sponsorship Sign to:  
tim.allen@fortworthtexas.gov

Individual Registration ..... \$ \_\_\_\_\_

Team Registration ..... \$ \_\_\_\_\_

### Tournament Extra(s)

\_\_\_ Mulligan (\$10/each, max 4/player) ... \$ \_\_\_\_\_

\_\_\_ Move Up Hole (\$20/team) ..... \$ \_\_\_\_\_

\_\_\_ Raffle Tickets (@ \$10)..... \$ \_\_\_\_\_

\_\_\_ Drink Tickets\* (\$15/ 2 tickets) ..... \$ \_\_\_\_\_

*\*Includes Water, Soda, and Beer/Wine*

**TOTAL (ADD COLUMN AT RIGHT) \$ \_\_\_\_\_**

REGISTER ONLINE: [www.txwater.org](http://www.txwater.org)

Or mail form with payment to:

TW24 Golf

P.O. Box 676

Pflugerville, TX 78691

Or fax to 512-251-8152



OVER 60  
YEARS

WATER AND WASTEWATER  
MARKET



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Fort Worth • Waco • Austin • Houston  
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# TEXAS WATER 2024 REGISTRATION

April 9-12, 2024  
Fort Worth, Texas

Early Registration Deadline: March 18, 2024

Payment must accompany this form or registration cannot be processed

REGISTER ONLINE: [www.txwater.org](http://www.txwater.org). PLEASE PRINT OR TYPE

FIRST NAME \_\_\_\_\_ LAST NAME \_\_\_\_\_

COMPANY \_\_\_\_\_ TITLE \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY/STATE/ZIP \_\_\_\_\_

PHONE \_\_\_\_\_ MEMBER # \_\_\_\_\_  WEF/WEAT  AWWA/TAWWA

EMAIL (**REQUIRED FOR PROCESSING**) \_\_\_\_\_

Received on/ before 3/18/24    Received after 3/18/24

**Full Registration** includes Wed. Awards Lunch, Thurs. Women of Water Breakfast, Thurs. Box Lunch and Thurs. Night Out tickets

Full Registration - MEMBER ..... \$395 ..... \$445 .....

Full Registration - NON MEMBER ..... \$650 ..... \$700 .....

**NON MEMBERS ONLY.** Full registration at the non-member rate also includes a free one-year membership in either WEF/WEAT or AWWA/TAWWA. With full, non-member registration, please indicate which organization you wish to join (**new members only - no renewals**):  WEF/WEAT  AWWA/TAWWA

Student ..... \$50 ..... \$60 .....  
(no meals/tickets included, must register with .edu email)

Wednesday Only - MEMBER  
(includes Awards Lunch ticket) ..... \$225 ..... \$265 .....

Wednesday Only - NON MEMBER  
(includes Awards Lunch ticket) ..... \$285 ..... \$325 .....

Thursday Only - MEMBER  
(includes Box Lunch ticket) ..... \$175 ..... \$215 .....

Thursday Only - NON MEMBER  
(includes Box Lunch ticket) ..... \$235 ..... \$275 .....

Friday Only - MEMBER ..... \$110 ..... \$120 .....

Friday Only - NON MEMBER ..... \$120 ..... \$135 .....

Exhibit Hall Only (4/10, 4/11) ..... \$65 ..... \$75 .....  
(No one-day passes available)

### FRIDAY FACILITY TOURS

Select One Tour Below: ..... \$35 ..... \$40 .....

- Tour 1: Bureau of Engraving & Printing's Western Currency Facility
- Tour 2: City of Fort Worth Westside Water Treatment Plant
- Tour 3: TRA CRWS Thermal Hydrolysis Process Facility

### ADD ONS

### QUANTITY

\*1 ticket included with Full Registration

\*Awards Lunch (Wed.) ..... x \$75 ..... \$85 .....

\*Women of Water Breakfast (Thurs.) ..... x \$50 ..... \$60 .....

\*Box Lunch (Thurs.) ..... x \$40 ..... \$50 .....

\*TW24 Thursday Night Event ..... x \$100 ..... \$110 .....

Gloyna Breakfast (Fri.) ..... x \$50 ..... \$50 .....

Guest Badge ..... \$110 ..... \$130 .....  
(must accompany a full or one day registration; includes access to exhibit hall and ticket to Thurs. Night event) **Badge Name:** \_\_\_\_\_

Donation to Water For People - *Optional* .....

**TOTAL PAYMENT (add right column)** .....

This is my first time attending the Texas Water Conference

TCEQ Operator License # \_\_\_\_\_

I have special dietary needs:  Vegetarian

Other \_\_\_\_\_

**THE EASIEST WAY TO REGISTER IS ONLINE: [www.txwater.org](http://www.txwater.org)**

### PAYMENT METHOD:

Check Payable to Texas Water

Bill My:  AMEX  VISA  MasterCard  Discover

Card # \_\_\_\_\_

Expiration \_\_\_\_\_ Security Code \_\_\_\_\_

Cardholder Name \_\_\_\_\_

Signature \_\_\_\_\_

Credit Card Billing Address \_\_\_\_\_

(Put "Same" if same as above; necessary to process)

For more information, contact:

Texas Water  
512-251-8101  
[info@txwater.org](mailto:info@txwater.org)

**Register online at [www.txwater.org](http://www.txwater.org)**

or mail form with payment to:

**Texas Water 2024 Registration  
c/o GCP Association Services**

**PO Box 676  
Pflugerville, TX 78691  
or fax to 512-251-8152**

**No refunds will be granted after March 18, 2024.** A \$60 cancellation fee will be assessed to all refund requests made prior to March 18, 2024. Substitutions allowed. Substitutions may incur a \$25 processing fee. All refunds must be requested in writing. Send refund or substitution requests to Texas Water at [info@txwater.org](mailto:info@txwater.org).

**Early registration deadline: March 18, 2024**