



WATEREUSE TEXAS CONFERENCE

A circular inset image showing a city skyline at dusk or dawn. The sky is filled with soft, colorful clouds in shades of orange, pink, and blue. Several skyscrapers are visible, with their windows glowing with warm yellow light. The most prominent building is a tall, slender tower with a distinctive top section. Other buildings of varying heights and architectural styles are visible in the background.

**ONE WATER:
THE WAVE OF
THE FUTURE**

CONFERENCE PROGRAM

GENERAL INFORMATION

EXHIBITION HOURS

MONDAY, SEPTEMBER 9

(Exhibitor set up: 9:00 am – 12:00 pm)

12:00 pm – 8:00 pm (optional exhibitor hours)

TUESDAY, SEPTEMBER 10

7:30 am – 5:00 pm

WEDNESDAY, SEPTEMBER 11

7:30 am – 11:15 am

(Exhibitor breakdown: 11:15 am – 12:15 pm – Desal exhibitors can remain)

WELCOME RECEPTION

Monday, September 9 | 6:00 pm – 8:00 pm | PDC Event Center



Join our sponsors, exhibitors, and your fellow attendees to kick off this year's conference.

SPONSORED BY



TOUR: CITY OF AUSTIN INNOVATIVE ONSITE REUSE

Wednesday, September 11 | 9:15 am – 10:45 am



Get an inside look at the City of Austin's onsite reuse. Stops on the tour include the Austin Permitting and Development Center rainwater collection (OSCAR) and blackwater treatment (CLARA) infrastructure and the Austin Community College rainwater and condensate collection system.

SPONSORED BY





CONFERENCE WI-FI

Stay connected at the 2024 WateReuse Texas Conference.

Conference Network: COA Guest

(No Password Required)

Follow WateReuse Texas on LinkedIn and Facebook and share all of your conference content:

#WRTX2024

CONTINUING EDUCATION UNITS

The WateReuse Texas Annual Conference is pleased to offer Continuing Education Units (CEUs) and Professional Development Hours for all states.

How Many Educational Credits Can I Earn at the Texas Annual Conference?

By attending all sessions, you can earn 15 CEUs through TCEQ.

When Will I Receive Credits for the Texas Annual Conference?

Certificates will be made available to participants electronically within 8-10 weeks after the Conference for sessions that attendees sign in with the room monitor as having attended. Please keep in mind that, although WateReuse does provide these files, most states will require the individual licensee to report continuing education credits.

General Information

Terminology and education credit requirements and restrictions vary widely. All participants are responsible for checking with their license/certification authority to ensure that the WateReuse technical concurrent sessions meet specific requirements. Please contact lgutierrez@watereuse.org with questions about WRTX provided certificates.

SPEAKERS

TUESDAY, SEPTEMBER 10

WELCOME REMARKS

DAVID SLOAN | Freese and Nichols; WateReuse Texas, President

David Sloan is a senior treatment technologist and Associate with Freese and Nichols, Inc. in Austin. He has 40 years' experience in the field of water and wastewater treatment and over 25 years' experience in water reuse. His experience includes evaluation, planning, and design of potable and non-potable reuse facilities, including CRWMD's Raw Water Production Facility in Big Spring. Sloan is a board-certified environmental engineer and serves as the current President for WateReuse Texas.

CHRISTINA MONTOYA-HALTE | El Paso Water; WateReuse Texas, Incoming President

Christina Montoya-Halter has been at EPWater for 15 years and is currently the Communications and Marketing Manager, overseeing internal and external communications. With 24 years of media, communications, and marketing experience, she was previously an anchor/reporter at El Paso's ABC and NBC news affiliates. Montoya-Halter has a BA in broadcast journalism and theater from the University of Southern California. She serves as Vice President for WateReuse Texas and is in her fourth term on the AWWA Public Affairs Council.

NOELLE GEORGE | WateReuse Texas, Managing Director

Noelle George is Managing Director of WateReuse Texas, representing over 70 organizations working to ensure all future Texans have access to clean, safe water. Previously, she was President of an international nonprofit advocating for global change in women's rights and disaster recovery and a pipeline engineer and capital project manager at Chevron, winning the Memorial Award from the International School of Hydrocarbon Measurement for her paper "Hydrocarbon Dew Point Effects on Gas Flow Measurement." She has a BS in Chemical Engineering from the University of Washington with an Environmental Focus.



WATER MANAGEMENT. EVERYTHING IS INTERCONNECTED.

Water reuse. Water treatment. Storm water management. Collection and conveyance. They are not separate. They interact and affect each other every day. In today's world, integrated water management is not a luxury, it's a necessity that removes barriers and elevates opportunities. At Carollo, we link all aspects of water and ensure they work together to deliver dependable, resilient water supplies for communities like yours. It's all one water.

800.523.5826 | carollo.com



Helping Our Communities Thrive

Water and Wastewater Planning / Transmission and Utilities
Water and Wastewater Treatment



freese.com

SPEAKERS

SHAY RALLS ROALSON | Austin Water, Director; WaterReuse Association, Board Member

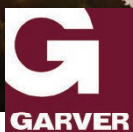
Shay Ralls Roalson is the Director at Austin Water, where she leads a team of over 1,200 employees dedicated to providing high-quality drinking water, wastewater, and reclaimed water services to more than 1 million people in the Austin metropolitan area. Roalson has 30 years of experience working with water utilities on planning, design, and construction of complex water and wastewater infrastructure projects. Previously, she served as the Central Texas Water Business Group Manager at HDR Engineering, Inc., where she consulted with utilities across Texas, including Austin Water, San Antonio Water System, and Guadalupe-Blanco River Authority. Roalson received her master's degree from the University of Texas.

KEYNOTE SPEAKER

JILL WILLIAMSON | NASA

Jill Williamson is the ISS Water Subsystems Manager and Water Management Co-Task Lead for the Mars Campaign Office's Systems Capabilities Leadership Team (SCLT). She has 10 years of unique expertise in water recycling and management for microgravity application as found on the International Space Station (ISS). Williamson has a BS in Chemistry from the University of Central Missouri, and MS and PhD in Analytical Chemistry from the University of Memphis where she specialized in developing water quality analyzers for an ISS Water Recovery System (WRS) architecture. She now manages the ISS WRS to ensure pristine quality water is available to astronauts for food rehydration and drinks as well as for ISS payloads and oxygen generation. This water recovery system uses both novel and classic water recycling technology that can be operated efficiently within a microgravity environment.





GarverUSA.com

Securing the future of water

Alternative water supplies, including water reuse, are vital to the growth and success of Texas. Garver is committed to providing the expertise and support needed to promote the stewardship of water through education, advocacy, and research.

Meet OSCAR & CLARA

The Future of Water Management

Together, OSCAR and CLARA are helping the City of Austin to save over one million gallons of drinking water each year, reducing the site's potable water use by 75%. As Austin's population grows and climate change stresses drinking water supplies, more OSCARs and CLARAs installed throughout the city will help to extend our water supplies and conserve precious drinking water.



PARTNERS & COLLABORATORS

WRTX would like to thank our partners and collaborators for #WRTX2024. Together, we are ensuring all Texans have enough clean, safe water through 2070 and beyond.



Water Environment
Association of Texas



A special thanks to the Texas Water Development Board (TWDB) and Texas Commission for Environmental Quality (TCEQ) for their participation and engagement in our conference.



**BE A PART OF
WRTX2025!**

Poster Proposals and
Award Nominations
Accepted Throughout
the Year





Meet Clear³ Modular Water & Wastewater Systems

Next-Level Treatment Technology Configured For You!

- Scalable & Modular Design
- Treats **5,000 to 1,500,000 GPD**
- Reuse-Ready Effluent
- Factory-Built & Tested
- Pre-Engineered for Fast Delivery & Set-up

Ask us about
our PFAS & Adsorber
Filtration Systems



+1 800.420.4056 | newterra.com



PLUMMER

Leaders in water reuse in Texas for over 30 years.

As new water sources become more scarce, our expertise and guidance will help you explore your options, plan innovative solutions, and make the most of the resources that you already have.

Plummer provides intelligent solutions for water challenges -
what can we solve for you?



CONFERENCE SCHEDULE

MONDAY, SEPTEMBER 9

12:30 pm –
5:30 pm

REGISTRATION OPEN

1:00 pm –
5:30 pm

WORKSHOP: REUSE 101

ROOM 1407

MODERATOR

*Niki Foster,
Parsons*

Part One: Basics

Overview:
*Greta Zornes,
CDM Smith*

Treatment:
*Mike Watts,
Garver*

Texas Regulations:
*Don Vandertulip,
TCEQ*

Funding:
*Guy Carpenter,
Conсор*

Outreach &
Communications:
*Sara Katz,
Katz & Associates*

Part Two: Panel Discussion

*Panel of Utility
Representatives*

WORKSHOP: PAYING FOR THE FUTURE

ROOM 1406

MODERATOR
*Water Finance
Exchange*

Organized in Partnership with the Water Finance Exchange

National and state
experts share their
expertise in planning
for, identifying, and
securing funding for
water projects with
a focus on
reuse projects.

WORKSHOP: PLANNING FOR A FUTURE WITH REUSE

ROOM 1405

SPONSORED BY
PLUMMER

MODERATOR

*Brigit Buff & Ellen
McDonald, Plummer*

Part One:

What Is One Water?
*Yuliana Porras-Mendoza,
Garver*

*Katie Snyder,
Black & Veatch*

Part Two: State Water Planning

*Temple McKinnon,
TWDB*

Craig Stowell, TCEQ

Part Three: Planning for the Future

*Eva Steinle-Darling,
Carollo*

*Sharlene Leurig &
Chandler Crouch,
Texas Water Trade*

Part Four: Deeper Dive

*Panel of Utility
Representatives*

6:00 pm –
8:00 pm

WELCOME RECEPTION – PDC EVENT CENTER
SPONSORED BY GARVER AND NEWTERRA

CONFERENCE SCHEDULE

TUESDAY, SEPTEMBER 10

7:30 am –
11:30 am **REGISTRATION OPEN**

7:30 am –
8:00 am **BREAKFAST SERVED**

8:00 am –
9:00 am **OPENING SESSION/BREAKFAST PLENARY – ROOM 1405**

OPENING REMARKS:

- David Sloan, Freese & Nichols; WaterReuse Texas, President
- Christina Montoya-Halter, El Paso Water; WaterReuse Texas, Vice President
- Noelle George, WaterReuse Texas, Managing Director
- Shay Ralls Roalson, Austin Water, Director

KEYNOTE: WATER RECYCLING FOR HUMAN PRESENCE ON THE INTERNATIONAL SPACE STATION AND BEYOND

- Jill Williamson, NASA

9:05 am –
9:50 am **STATE OF WATER REUSE IN TX – ROOM 1405**

- L'Oreal Stepney, Texas Water Development Board
- Erika Crespo, Texas Commission on Environmental Quality

9:55 am –
10:50 am **EL PASO WATER: JOURNEY TO DIRECT TO DISTRIBUTION DPR – ROOM 1405**

MODERATOR: Guy Carpenter, Consor

PANELISTS:

- Gilbert Trejo, El Paso Water
- Caroline Russell, Carollo
- Angel Bustamante, El Paso Water
- Christina Montoya, El Paso Water

10:50 am –
11:00 am **BREAK**

11:00 am –
12:45 pm **LUNCH PLENARY & WRTX AWARDS CEREMONY – ROOM 1405**

SPONSORED BY FREESE AND NICHOLS

PANEL DISCUSSION: AUSTIN WATER'S GOPURPLE PROGRAM

PANELISTS:

- Anna Bryan-Borja, Austin Water
- Kevin Critendon, Austin Water
- Randi Jenkins, Austin Water

CONFERENCE SCHEDULE

TUESDAY, SEPTEMBER 10 (CONTINUED)

12:45 pm – 1:15 pm	NETWORKING BREAK		
	TRACK 1: RESEARCH/ TREATMENT ROOM 1406	TRACK 2: CASE STUDIES ROOM 1405	TRACK 3: COMMUNICATIONS & PLANNING ROOM 1407
1:15 pm – 1:45 pm	Establishing Pathogen LRVs Using Marker-Based RO Integrity Testing <i>David Sloan, Freese & Nichols</i> <i>Keisuke Ikehata, Texas State University</i> <i>Hunter Adams, City of Wichita Falls</i>	Agua Reciclada en San Antonio <i>James Gegenheimer and Timothy Ybarra, SAWS</i>	Reuse Communication Lessons Learned Over 30 Years <i>Sara Katz, Katz & Associates</i>
1:50 pm – 2:20 pm	Why Potable Reuse Is Ahead of the PFAS Game: Lessons from WRF 5082 <i>Eva Steinle-Darling, Carollo</i>	East Fork Wetland: Lessons From 14 Years Operation of 1840 AC Treatment Marsh <i>Sonja Cook, Plummer</i> <i>Lauren Plunk, North Texas MWD</i>	Proactively Purple: Round Rock's Reuse Water Master Plan Update <i>Adam Levy, City of Round Rock</i>
2:25 pm – 2:55 pm	Aesthetic Quality of Purified Water for Direct Potable Reuse <i>Keisuke Ikehata and Carlos Espindola, Texas State University</i>	Adapting Water Reclamation Facility Upgrades in Response to Changing Needs <i>Andrea Tom, CDM Smith</i> <i>Chelsea Solomon, City of Georgetown</i>	Recycled Water Program Perspective on Contract Management <i>Pablo Martinez, SAWS</i>
2:55 pm – 3:20 pm	NETWORKING BREAK		
3:20 pm – 3:50 pm	Machine Learning Soft Sensors for Water Reuse <i>Kyle Thompson, Carollo</i>	Wichita Falls' DPR Experience: A Water Quality Perspective <i>Joshua Benjamin, CDM Smith</i> <i>Hunter Adams, City of Wichita Falls</i>	Advancing Reuse: Lessons Learned from a City-Wide Water Reuse Ordinance Roll Out <i>Megan Thomas and Jonathan Farr, Epic Cleantec</i>

CONFERENCE SCHEDULE

TUESDAY, SEPTEMBER 10 (CONTINUED)

3:55 pm –
4:25 pm

Bacteria and Bromate
Online Monitoring in a
Pilot DPR System
*Daniel Leontiff and
Keisuke Ikehata,
Texas State University*

WRTX Policy
Roundtable
*Moderated by
Noelle George &
Nathan Vassar, WRTX
Policy Committee
Chair*

Sewer Mining Through
a Public-Private
Partnership
*Katherine Jashinski,
Austin Water*

4:30 pm –
5:00 pm

PLENARY SESSION: WRTX ANNUAL MEMBERSHIP MEETING
– ROOM 1405



BLACK & VEATCH

Recover.
Revitalize.
Reuse.

We are committed to
helping our clients on their
journey of water resource
recovery and reuse, and
environmental stewardship.

bv.com/water



consor

Every drop makes an impact.

Advancing the
value of water
reclamation and
beneficial reuse
for people and
the environment.



CONFERENCE SCHEDULE

WEDNESDAY, SEPTEMBER 11

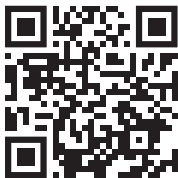
7:30 am – 8:00 am	BREAKFAST SERVED		
8:00 am – 9:00 am	BREAKFAST PLENARY – ROOM 1405 SPONSORED BY CAROLLO TEXAS WATER TRADE PANEL DISCUSSION: HOW DEVELOPERS AND UTILITIES CAN COLLABORATE TO MAKE GROWTH A SOURCE OF WATER MODERATOR: Sharlene Leurig, Texas Water Trade PANELISTS: <ul style="list-style-type: none"> • Dalton Rice, City of Kerrville • Earl Foster, Lakeway MUD • Ben Arnold, Aquacell • Steven Spears, Momark Homes 		
9:00 am – 9:15 am	BREAK		
9:15 am – 10:45 am	INNOVATIVE REUSE TOUR – DEPARTS FROM PDC MAIN LOBBY Stops include the Permitting and Development Center's OSCAR and CLARA systems and the Austin Community College rainwater and condensate collection system. <i>SOLD OUT! Must Be Pre-registered</i> SPONSORED BY AUSTIN WATER		
	TRACK 1: RESEARCH/ TREATMENT ROOM 1406	TRACK 2: CASE STUDIES ROOM 1405	TRACK 3: COMMUNICATIONS & PLANNING ROOM 1407
9:15 am – 9:45 am	Data Insights for Potable Reuse: Cybersecurity, Data Access, and Event Detection <i>Erik Vosburgh, Hazen & Sawyer</i>	Reviving the City of Denton's 20-Year-Old Reuse Vision <i>Michael Hunter, City of Denton</i>	Water Quality Crediting Approach for On-Demand Rainwater Harvesting Systems <i>Rebecca Batchelder, Austin Water</i> <i>Marty Christman, GeoSyntec</i>
9:50 am – 10:20 am	Advantages of MBRs for Producing Distributed Type I Reclaimed Water in Texas <i>Jeff Danner, Innovatreat</i>	Aqua Pura: Adapting to Climate Change Using Potable Reuse in a Small Community <i>Patricia Bolliger, Stantec</i>	Financing Water Reuse Projects and Technologies through the WIFIA Program <i>Douglas Scott, EPA</i>

CONFERENCE SCHEDULE

WEDNESDAY, SEPTEMBER 11 (CONTINUED)			
10:25 am – 10:55 am	Colloidal Deposition Inside UF Membranes During Wastewater Reclamation <i>Qinlin Li, Plummer</i>	Research Committee: Project Discussions <i>Ya Zhang, Plummer; WRTX Research Committee Chair</i>	Trends in Reuse Strategies in Regional and State Water Plans <i>Jaime Burke and Lauren Gonzalez, Black & Veatch</i>
10:55 am – 11:10 am	BREAK		
11:10 am – 11:45 am	CLOSING PLENARY – ROOM 1405 NON-POTABLE WATER REUSE IN TEXAS & TCEQ REGULATORY UPDATES <ul style="list-style-type: none">Erika Crespo & Louis Herrin, TCEQ CLOSING REMARKS <ul style="list-style-type: none">WRTX Leadership		

POLICIES THAT
ADVANCE TEXAS
WATER REUSE
START WITH YOU

PROVIDE YOUR
INPUT BY SEPT. 16
SO WRTX CAN
ADVOCATE FOR
YOUR NEEDS



SCAN ME



RECOGNITION

WATEREUSE TEXAS AWARDS

"ED" ARCHULETA AWARD

The Archuleta Award was created in 2013 and recognizes water reuse leaders who have made outstanding contributions in the field of water reuse within the State of Texas. Awardees have played a significant role in shaping reuse in Texas and have had a lasting impact on the water reuse community and industry in Texas.

REUSE IMPACT AWARD

The Reuse Impact Award recognizes individuals, projects, facilities, or organizations that have made significant contributions to increase water reuse in Texas over the last two years (2022-2024).

VANDERTULIP BEST PRESENTATION AWARD

Established in 2019, the Vandertulip Best Presentation Award is in honor of Don Vandertulip. Vandertulip was a founding member of WaterReuse Texas, President from 2008-2010, and has been the technical program chair of our annual conference and seminar programs over many years. The best presentation award will be selected by the community in the post-conference survey.

WATEREUSE TEXAS BOARD MEMBERS

David Sloan, Freese & Nichols (President)
Christina Montoya-Halter, El Paso Water (Vice-President)
Shela Chowdhury, North Texas MWD (Secretary/Treasurer)
Mark Vega, City of McAllen (Immediate Past President)

TRUSTEES

Nathan Vassar, Lloyd Gosselink Attorneys at Law
Shannon Dunne, Fort Worth Water
Sanaan Villalobos, Carollo
Marisa Palmer, San Antonio Water Systems
Dan Olson, Garver
Mandi Siebels, City of Houston

SPONSORS

WRTX would like to thank our sponsors for supporting this year's conference and making it possible for us to provide discounted registration for municipal employees.

SPECIALTY SPONSORS



PLATINUM SPONSORS



SUNDT



GOLD SPONSORS

AECOM
Hazen & Sawyer
INTERA Incorporated
MWH Constructors
Stantec
Tetra Tech
VWater

SILVER SPONSORS

Innovatreat
Lloyd Gosselink Attorneys
at Law
Pape Dawson

2024 CONFERENCE VOLUNTEERS

WateReuse Texas thanks all of the 2024 Conference volunteers.

PROGRAM COMMITTEE CHAIR

Brigit Buff, Plummer

SPONSORSHIP/EXHIBITOR CHAIR

Shannon Dunne, Fort Worth Water

AUSTIN WATER LIAISON

Robert Stefani, Austin Water

AWARDS COMMITTEE

Eva-Steinle Darling, Carollo, 2023 Archuleta Award Winner

Keisuke Ikehata, Texas State University, 2023 Reuse Impact Award Winner

Ellen McDonald, Plummer, 2018 Archuleta Award Winner

Daniel Nix, City of Wichita Falls, 2015 Archuleta Award Winner

David Sloan, Freese & Nichols, WRTX President, 2016 Archuleta Award Winner

ABSTRACT REVIEW COMMITTEE

Brigit Buff, Plummer

Keisuke Ikehata, Texas State University

William Delgado, Texas Water Development Board

Hunter Adams, City of Wichita Falls

Don Vandertulip, TCEQ

Bill Marriott, Stantec

Niki Foster, Parsons

Special thanks to the following people who helped make the 2024 Texas WateReuse Conference possible:

Maria Wang, Fort Worth Water

Lisa Culbert, WateReuse Arizona

Katherine Jashinski, Austin Water

Ramona Finos, City of Austin

What happens **NEXT** is happening **NOW**.™

Let's shape your **NOW** together.

We are committed to strengthening water supply portfolios where they are most needed. Whether it's by pioneering new approaches to treatment and monitoring or developing ever-better designs, we're helping our clients achieve water supply and resilience now.




cdmsmith.com
/reuse

**CDM
Smith**

GAI

Gupta & Associates is leading electrical and instrumentation & controls engineering firm for water and wastewater.


Learn more at gaiconsulting.com



**Southwest
Engineers**

Awareness of the importance of
Water Reuse for the environment

Water	Waste Water	Reclaimed Water
Drinking water is indispensable for human health, and overall societal functioning.	Effective wastewater management is vital to prevent pollution, and protect public health	Reclaimed water helps expand available water options sustainably.



TAYA Biological Wastewater Treatment Designed for Decentralized Communities

10+ years of proven performance in the US & Israel
Capacity 8,000-1,000,000 GPD

SIMPLIFY WASTEWATER REUSE

SIMPLE & EASY TO OPERATE

Sludge Removal **Once per 4-8 years**, Onsite Visit **Once per Week**, Remote **Monitoring and Control**, No Added Chemicals

COST & ENERGY EFFICIENT

OPEX Savings up to **80%** Capex Savings up to **20%**
Energy Savings up to **80%** Retrofit Comparable

HIGH-QUALITY EFFLUENT

Suitable for **Reuse** Up to **90%** reduction in:
BOD, COD, TSS, NH4 & TN
No Odor, No Noise, Single Stage **NITRO-DENITRO**

US Backed Private Company | Israeli Technology

Your path to fast reuse
call: +1 (602) 910-5109 email: info@wfi-water.com
www.wfi-water.com



WATEREUSE
TEXAS

UPCOMING EVENTS



2024 INDUSTRIAL WATER REUSE CONFERENCE
Indian Wells, California | November 19 - 21, 2024



40TH ANNUAL WATEREUSE SYMPOSIUM
Tampa, Florida | March 16-19, 2025

2025 WRTX CONFERENCE
Week of September 15
#WRTX2025

#WRTX2024

WATEREUSE.ORG/TEXAS