

# WATEREUSE TEXAS CONFERENCE



# **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 treat-

ment (CLARA) infrastructure and the Austin Community College rainwater and condensate collection system. SPONSORED BY





Stay connected at the 2024 WateReuse Texas Conference.

Conference Network: COA Guest

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**#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.

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# SPEAKERS

# **SHAY RALLS ROALSON** | Austin Water, Director; WateReuse 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.





# Securing the future of water

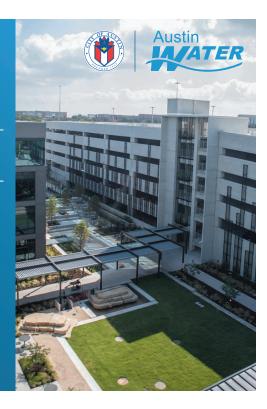
Alternative water supplies, including water reuse, are vital to the growth and success of Texas. Garver is committed to providing the expertise and support needed to promote the stewardship of water through education, advocacy, and research.

# Meet

# OSCAR & CLARA

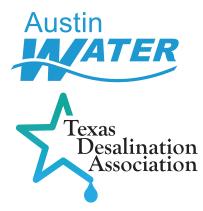
# The Future of Water Management

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.







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









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# **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, Consor

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

TUESDA	Y, 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; WateReuse Texas, President  Christina Montoya-Halter, El Paso Water; WateReuse Texas, Vice President  Noelle George, WateReuse 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

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

# TUESDAY, SEPTEMBER 10 (CONTINUED) 3:55 pm - Bacteria and Bromate WRTX Policy

3:55 pm -4:25 pm Bacteria and Bromate Online Monitoring in a Pilot DPR System Daniel Leontiff and Keisuke Ikehata.

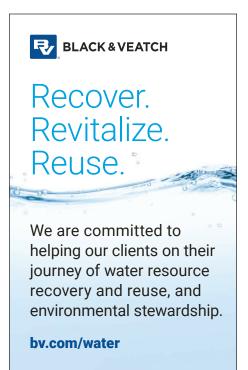
Texas State University

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





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



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:  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.  SOLD OUT! Must Be Pre-registered  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 Erik Vosburgh, Hazen & Sawyer	Reviving the City of Denton's 20-Year-Old Reuse Vision Michael Hunter, City of Denton	Water Quality Crediting Approach for On-Demand Rainwater Harvesting Systems Rebecca Batchelder, Austin Water Marty Christman, GeoSyntec		
9:50 am – 10:20 am	Advantages of MBRs for Producing Distributed Type I Reclaimed Water in Texas Jeff Danner, Innovatreat	Aqua Pura: Adapting to Climate Change Using Potable Reuse in a Small Community Patricia Bolliger, Stantec	Financing Water Reuse Projects and Technologies through the WIFIA Program Douglas Scott, EPA		

# WEDNESDAY, SEPTEMBER 11 (CONTINUED)

10:25 am – 10:55 am Colloidal Deposition Inside UF Membranes During Wastewater Reclamation

Qinlin Li, Plummer Research Committee:
Project Discussions

Ya Zhang, Plummer; WRTX Research Committee Chair Trends in Reuse Strategies in Regional and State Water Plans Jaime Burke and

Lauren Gonzalez,

Black & Veatch

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

• Erika Crespo & Louis Herrin, TCEQ

**CLOSING REMARKS** 

• 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 WateReuse 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.

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# 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

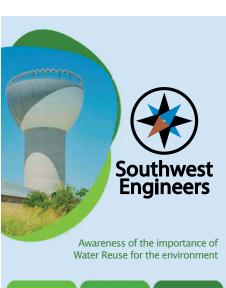
Ramona Finos, City of Austin





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# **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