

# WEF/WEAT COLLECTION SYSTEMS AND STORMWATER CONFERENCE

## CONFERENCE PROGRAM





## Collection Systems and Stormwater Conference 2025

July 15-18, 2025

George R. Brown Convention Center,  
Houston, Texas

[www.wef.org/collectionsstormwater](https://www.wef.org/collectionsstormwater)  
#CSSWConf

### Access the CSSW 2025 Mobile App

Plan your sessions, browse exhibitors, and get real-time updates—all from the palm of your hand. Use the link that matches your device and enter access code **CSWEAT25** if prompted.

#### iPhone / iPad (iOS App Store)

Download the app: <https://events.wef.org/CSSWios>

#### Android (Google Play Store)

Download the app: <https://events.wef.org/CSSWandroid>

#### Mobile Web App (No download required)

Use it in your browser: <https://events.wef.org/CSSWmobile>

#### Desktop Planner

Access from your computer: <https://events.wef.org/CSSWdesktop>

*This conference is hosted by the Water Environment Federation in partnership  
with the Water Environment Association of Texas.*

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The Water Environment Federation and the Water Environment Association of Texas stand with the families and communities devastated by the recent Texas floods. Together, we're donating \$10,000 to support relief efforts.

If you're able, please consider contributing to the Kerr County Flood Relief Fund: <http://events.wef.org/DonateTX>

## CONFERENCE COMMITTEES

WEF and WEAT would like to thank our conference co-chairs, the members of our conference steering committee and program committee, and all those who reviewed abstracts for their contributions to the technical program. We would not be able to produce high quality events year after year without the assistance of dedicated volunteers. Thank you!

**Stephanie Hanses**

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Chair*

**Jennifer Steffens**

*Ardurra  
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*Gwinnett County Department of  
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Vice Chair*

**Kraig Moodie**

*RJN Group  
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## CONFERENCE COMMITTEES

### PROGRAM COMMITTEE

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*Wade Trim*

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*Turing Inc*

**Kevin Vander Tuig**

*Wade Trim*

## **SOCIAL MEDIA POLICY**

WEF strongly encourages the use of social media to share your experiences at our event. This includes sharing interesting quotes or information, taking pictures with colleagues, and using the event hashtag: #CSSWConf. However, to protect intellectual property, videotaping, filming, or live-streaming of any technical session is prohibited. Any participant violating this policy must relinquish the media and may be removed from the conference. Also, promotional or commercial use of photographs taken at WEFTEC and other WEF conferences is strictly prohibited. If you are interested in content, materials, or products, please consider talking to the speaker who may provide the information or grant permission.

## CODE OF CONDUCT

WEF is committed to providing a professional, safe, and welcoming environment during its in-person and virtual events for all participants. WEF expects all attendees, moderators, panelists, and speakers to uphold our commitment to diversity and inclusion by helping us provide a positive environment for everyone.

As a participant you agree to the following:

- To treat all individuals with respect and create a collegial, inclusive, and professional environment.
- To value a diversity of views and opinions by communicating openly with respect for others.
- Not to verbally abuse any individual or to discriminate, harass, or intimidate on the basis of gender, race, gender identity and expression, sexual orientation, physical or mental disability, physical appearance, age, religion, national origin, veteran status, citizenship, or professional rank.

Anyone requested to stop unacceptable behavior is expected to comply immediately. WEF management may take any action deemed necessary and appropriate, including removal from the event (and any remaining portions thereof) without warning and without refund of registration fee.

Additionally, if you are a WEF member, you agree to uphold the WEF Member Code of Conduct while attending WEF events.

### Reporting Concerns

To report a Code of Conduct violation, you may email the WEF Executive Director, at: [\*\*executivedirector@wef.org\*\*](mailto:executivedirector@wef.org).



*WEF Events Code of  
Conduct*



*WEF Member Code of  
Conduct*

## CONFERENCE SAFETY AND SECURITY

### **George R. Brown Convention Center**

1001 Avenida de las Americas, Houston, Texas 77010

- In the event of a problem where evacuation appears imminent, an announcement will be made over the Public Address system and will precede with an audible alarm. Everyone should assemble in the [4] Muster Areas of the Convention Center to meet with facility personnel to receive further directions and updates regarding the emergency. All staff and guests must remain outside the convention center until instructed otherwise by authorized emergency personnel.
- **In case of emergency, call the GRB Security Dispatch at 713-853-8087.**

### **Hilton Americas - Houston**

1600 Lamar Street, Houston, Texas 77010

- **Call 911** if the situation is an emergency
- If the matter is NOT an emergency, dial "6134" from any hotel phone, or 713-577-6134 from a cell phone to get in touch with our security team and report the matter.

## COMMUNITY MEETINGS

### **WEF Stormwater Community Meeting**

Wednesday, July 16, 10:00 AM – 10:45 AM

Room 351 BC

### **WEF Collection Systems Community Meeting**

Thursday, July 17, 5:00 PM – 6:00 PM

Room 351 BC



## RECEPTIONS AND MEAL FUNCTIONS

Staff have arranged to have a variety of food options to accommodate vegan and vegetarian preferences. Please advise staff if you have additional special dietary requirements.

### **Texan Takeover - WEAT Welcome Social**

Hosted by WEAT, this lively evening brings together water professionals from across the country for an authentic taste of Texas hospitality. Expect good food, great beer, and even better company as we celebrate our shared passion for clean water and strong communities. Learn more and register at:

<https://www.weat.org/events/texan-party-at-wef-weat-collection-systems-and-stormwater-conference>

#### **Tuesday, July 15 - 5:30 PM**

Saint Arnold Brewing Company  
2000 Lyons Avenue, Houston, TX 77020

### **Networking Luncheons**

Lunch will be provided for all registered attendees on both full days of the CSSW Conference. Use this opportunity to meet fellow participants from across the country and abroad while enjoying a luncheon.

#### **Wednesday, July 16 and Thursday, July 17**

Exhibit Hall  
11:45 AM - 1:30 PM

### **WEF Networking Reception**

*Sponsored by Arcadis*

Join fellow attendees, speakers, and exhibitors in the Exhibit Hall to network and relax while enjoying a complimentary beverage and light hors d'oeuvres.

#### **Wednesday, July 16**

Exhibit Hall  
5:00 PM - 6:30 PM

### **Networking Breaks**

Take the opportunity to explore the exhibit hall without missing any technical sessions while enjoying a cup of coffee or tea.

#### **Wednesday, July 16 and Thursday, July 17**

Exhibit Hall  
10:00 AM - 10:45 AM and 3:00 PM - 3:45 PM

The Networking Break on **Friday, July 18** will take place outside the technical session rooms from 10:00 AM - 10:30 AM.

## CONTINUING EDUCATION

### **Continuing Education credits**

Participating attendees will receive an email within 2 weeks after this event informing them when CE Credit files are available. Attendees will be able to download a certificate and transcript detailing their participation using the link provided. These details are also posted under events on [www.WEF.org](http://www.WEF.org).

### **How Do I Receive Credit For this Conference?**

To receive credit for participation in educational sessions, attendees will be required to scan their badge when entering and exiting each session room. Credits obtained during this event will be available using the link provided in the post event email and WEF site listed above.

### **Pre-Conference Workshops:**

WEF offers Continuing Education Units (CEUs) for participation in workshops. One CEU is the equivalent to 10 hours of training or formal instruction. These are distributed for structured, relevant professional training above and beyond that of initial certification or employment in a particular field.

### **Technical Sessions:**

WEF offers Professional Development Hours (PDHs) for participation in technical sessions. A PDH is defined as one hour spent engaged in an activity that contributes to the advancement or enhancement of professional skills or scientific knowledge of a professional engineer or operator.

### **General Contact Hours:**

These credits are issued for participation in the Opening General Session, Technology Spotlights and in Facility Tours. A contact hour is defined as one hour spent engaged in an activity that contributes to the professional skills of the participant. Licensing boards will vary in approval of these sessions.

### **When Will I Receive Credits For this Conference?**

Certificates and transcripts are available for download as soon as the CE Credit link is made available. WEF will send an email after the conference to inform attendees where they can obtain their credits. Please keep in mind that most state licensing boards require the individual licensees to report their continuing education credits.

### **Are WEF Continuing Education Credits Approved in My State?**

Most state engineering boards will accept WEF event credits as issued by WEF. WEF will be happy to work with individuals and Member Associations for additional state or agency approvals upon request. In addition, WEF has been approved as a Training Provider through the following: The Florida Board of Professional Engineers, the New York State Department of Education, and the Ohio EPA.

Please visit [www.wef.org](http://www.wef.org) for specific state approval information for each event.

## CONTINUING EDUCATION

### What Else Do I Need to Know?

WEF follows the International Association of Continuing Education and Training (IACET) guidelines along with strict state-specific CE Credit regulations. We strive to maintain these policies and procedures regarding our Continuing Education Program to meet with and receive state recognition of our events. WEF calculates education credits following a standardized method that is the most widely accepted by certification and licensing agencies. However, many states differ in the type and/or number of credits they will approve for educational events. Because of this, participants are responsible for exploring their state requirements and for ensuring that WEF conference credits are accepted.

Note: Educational Credits will not be recorded, and documentation will not be distributed unless the attendee is a confirmed registrant of this event and the proper steps are completed as indicated in the directions provided.

### Service and Support:

WEF maintains a database of all continuing education files for a minimum of 7 years. You may contact WEF's Customer Service Team between the hours of 8:30 a.m. and 5:00 p.m. EST, Monday through Friday for questions related to WEF Programs - 1-800-666-0206 or [csc@wef.org](mailto:csc@wef.org).

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### State Credit Calculations:

Each state licensing board has its own set of CE credit requirements. Some states use different acronyms for approved training credits. In most cases the credits issued by WEF can be converted to meet state specific requirements that vary from the system used by WEF. This is usually managed at the state level using the following conversion:

**1.0 CEU = 10 Hours** of session time

**1.0 PDH = 1 Hour** of session time

**1.0 General Contact Hour = 1 Hour** of session time

For example: **1.7 CEU Credits = 17.0 PDH** depending on individual state regulations.

*\*CEU will be converted to PDH credits for Workshops attended by Professional Engineers licensed in the state of New York (NYSED).*

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Important: Sessions that are not related to professional practice, such as accounting/financial planning, basic Auto CAD, general office management, insurance, marketing, real estate, risk management, DE&I, etc. are not approved for CE credits by some state licensing boards, including the NYSED.

**For more information regarding WEF's Continuing Education Program, please visit the Events & Education tab at [www.WEF.org](http://www.WEF.org).**

## SPONSORS

We would like to thank the following sponsoring companies for their contributions to the conference and program.



## CONFERENCE SCHEDULE AT-A-GLANCE

### **Tuesday, July 15**

7:30 AM - 5:00 PM  
8:30 AM - 5:00 PM  
9:30 AM - 11:00 AM

Registration  
Workshops A, B  
Workshop D

### **Wednesday, July 16**

7:30 AM - 5:00 PM  
8:30 AM - 10:00 AM  
10:00 AM - 6:15 PM  
10:00 AM - 10:45 AM  
10:45 AM - 11:45 AM  
11:45 AM - 1:30 PM  
1:00 PM - 3:00 PM  
1:30 PM - 3:00 PM  
1:30 PM - 4:45 PM  
3:15 PM - 3:40 PM  
3:45 PM - 4:45 PM  
4:45 PM - 6:15 PM

Registration  
Opening General Session  
Exhibit Hall Hours  
Stormwater Community Meeting  
Sessions 01, 02, 03, 04  
Networking Luncheon  
Tour A  
Session 06  
Sessions 05, 07, 08  
Technology Spotlight I  
Session 09  
Networking Reception

### **Thursday, July 17**

8:00 AM - 5:00 PM  
8:00 AM - 11:00 AM  
8:30 AM - 10:00 AM  
8:30 AM - 11:45 AM  
10:00 AM - 3:45 PM  
10:15 AM - 10:40 AM  
10:45 AM - 11:45 PM  
11:45 AM - 1:30 PM  
1:30 PM - 4:45 PM  
3:15 PM - 3:40 PM  
5:00 PM - 6:00 PM

Registration  
Tour B  
Sessions 10, 12  
Sessions 11, 13  
Exhibit Hall Hours  
Technology Spotlight II  
Sessions 14, 15  
Networking Luncheon  
Sessions 16, 17, 18, 19  
Technology Spotlight III  
Collection Systems Community Meeting

### **Friday, July 18**

8:00 AM - 12:00 PM  
8:30 AM - 10:00 AM  
8:30 AM - 11:45 AM  
10:15 AM - 11:45 AM  
11:45 AM

Registration  
Sessions 20, 22, 23  
Session 21  
Sessions 24, 25  
Conference Adjourns

## SESSIONS-AT-A-GLANCE

Session Number	Event	Start Time	End Time	Room
<b>Wednesday, July 16</b>				
OGS	Opening General Session	8:30 AM	10:00 AM	General Assembly C
<b>Networking Break</b>		10:00 AM	10:45 AM	Exhibit Hall
Stormwater Community Meeting		10:00 AM	10:45 AM	351 BC
Session 01	Planning Resilient Collection Systems for the Future	10:45 AM	11:45 AM	342 BE
Session 02	Regulatory Updates in Collection Systems	10:45 AM	11:45 AM	342 CF
Session 03	Strategies for Odor and Corrosion Control	10:45 AM	11:45 AM	342 AD
Session 04	An In-depth Discussion of the 4th Edition of WEF's Manual of Practice FD-6 Existing Sewer Evaluation and Rehabilitation	10:45 AM	11:45 AM	351 CB
<b>Networking Luncheon</b>		11:45 AM	1:30 PM	Exhibit Hall
Tour A	City of Houston - 69th Street Wastewater Treatment Plant	1:00 PM	3:00 PM	Hilton Bus Stop
Session 05	Stormwater and Coastal Resilience Modeling	1:30 PM	4:45 PM	342 BE
Session 06	Harnessing the Cloud for Smarter Water Management	1:30 PM	3:00 PM	351 CB
Session 07	Advancing Pipeline Inspection with Smart Technologies	1:30 PM	4:45 PM	342 CF
Session 08	Construction and Project Delivery	1:30 PM	4:45 PM	342 AD
TS I	Technology Spotlight I	3:15 PM	3:40 PM	Exhibit Hall
Session 09	Connecting Public Spaces and Protecting Waterways at National Western Center	3:30 PM	4:45 PM	351 CB
<b>Networking Reception</b>		4:45 PM	6:15 PM	Exhibit Hall

## SESSIONS-AT-A-GLANCE

Session Number	Event	Start Time	End Time	Room
<b>Thursday, July 17</b>				
Tour B	Keith Wiess Park Stormwater Detention and Water Quality Basin	8:00 AM	11:00 AM	Hilton Bus Stop
Session 10	Leveraging Digital Tools for Stormwater Resilience	8:30 AM	10:00 AM	351 CB
Session 11	Engaging Communities for Smarter Water Management	8:30 AM	11:45 AM	342 AD
Session 12	Digital Innovation for Smarter Wastewater Management	8:30 AM	10:00 AM	342 CF
Session 13	Leveraging Technology for Sewer Management	8:30 AM	11:45 AM	342 BE
<b>Networking Break</b>		10:00 AM	10:45 AM	Exhibit Hall
TS II	Technology Spotlight II	10:15 AM	10:40 AM	Exhibit Hall
Session 14	Navigating Stormwater Regulations	10:45 AM	11:45 AM	351 CB
Session 15	Tools for Stormwater Inspection and Maintenance	10:45 AM	11:45 AM	342 CF
<b>Networking Luncheon</b>		11:45 AM	1:30 PM	Exhibit Hall
Session 16	The Next Generation of SWMM: A Workshop for Stakeholders and Partners	1:30 PM	4:45 PM	342 AD
Session 17	Innovations in Green Infrastructure	1:30 PM	4:45 PM	351 CB
Session 18	Smarter Sewer Systems: Innovations, Efficiency, and Safety	1:30 PM	4:45 PM	342 BE
Session 19	Smarter Strategies for I&I Detection and Reduction	1:30 PM	4:45 PM	342 CF
TS III	Technology Spotlight III	3:15 PM	3:40 PM	Exhibit Hall
Collection Systems Community Meeting		5:00 PM	6:00 PM	351 BC

## SESSIONS-AT-A-GLANCE

Session Number	Event	Start Time	End Time	Room
<b>Friday, July 18</b>				
Session 20	Under Pressure: Managing Wastewater Collection Systems with Extensive Pump Stations and Force Mains	8:30 AM	10:00 AM	342 CF
Session 22	One Water Strategies in Action	8:30 AM	10:00 AM	342 BE
Session 23	Community Engagement during Construction	8:30 AM	10:00 AM	351 CB
Session 21	Innovations in Texas Water Infrastructure	8:30 AM	11:45 AM	342 AD
<b>Networking Break</b>		10:00 AM	10:15 AM	Session Foyer
Session 24	Flood Resilience for Collection Systems	10:15 AM	11:45 AM	342 CF
Session 25	Advancing Modeling for Design	10:15 AM	11:45 AM	342 BE



## WORKSHOPS AND TOURS

*Additional fees apply*

### **Workshop A: Winning at I/I Reduction - Building on Key Learnings from Successful Utilities**

Tuesday, July 15, 2025  
8:30 AM - 5:00 PM

**Speakers:** Andy Lukas, Brown and Caldwell; Ranin Nseir, Regional Municipality of York; Weston Haggen, CHA Consulting; Cari Roper, Milwaukee Metropolitan Sewerage District; Fazle Rabbi, City of Houston; Eric Harold, Carollo; Bill Landshof, Dax Blake, Arcadis; Angelee Strawder, EBMUD; Deron Huck, Burns & McDonnell

This workshop will showcase successful I/I reduction programs while engaging participants in a group exercise where they will develop the key framework elements of an industry good practices program. Attendees will learn proven approaches from others as well as share various approaches and methods they have also applied in their own programs. The workshop will benefit utilities, practitioners, and policymakers/regulators by providing industry insights for establishing or resetting I/I remediation programs along a path that can provide a greater chance and degree of success.

### **Workshop B: Smart Infrastructure for Sewer Solutions: Understanding the physical, digital, and management systems that make sewers smart**

Tuesday, July 15, 2025  
8:30 AM - 5:00 PM

**Speakers:** Kyle Logue, Gannett Fleming Inc.; Ashley Smart, Elizabeth Aguin, RJN Group; Christine Heinrich, City of LA; Mason Throneburg, Confluency; Christopher Ranck, Black & Veatch; Rosaleen Nogle, Buffalo Sewer Authority; Fazle Rabbi, City of Houston; Pratistha Pradhan, PNA Technical

Smart infrastructure can be used to inform operational decisions that ultimately improve the efficiency, reliability, and lifespan of physical assets. By implementing these solutions, it is estimated that utilities could save up to \$320 billion in capital expenditures and operating expenses. This workshop will strive to provide attendees with insights needed to reimagine how new and existing data, assets, and technology can be leveraged to improve the efficiency of their systems while preventing overflows.

## WORKSHOPS AND TOURS

*Additional fees apply*

### **Workshop D: Dos, Don'ts, and Dohs of Clean Water Consent Decrees: Texas Style**

Tuesday, July 15, 2025

9:30 AM – 11:00 AM

**Speakers:** Debra Baker, Baker Wotring LLP; Jeff Haby, SAWS; Frank Simoneaux, City of Baytown; Phillip Goodwin, Houston Public Works

When talking about Texas water, it's often said that the Lone Star State is one in perpetual drought interrupted by biblical floods. This, coupled with aging infrastructure and booming population growth means that Texas wastewater infrastructure in some of its largest cities cannot keep up with 1&I. Texas leads the nation with cities under Federal Clean Water consent decrees and can provide valuable insight into lessons learned in negotiating and implementing CDs and administrative orders. Come join this Texas-centric workshop and hear from representatives from Houston Public Works, San Antonio Water Systems, City of Baytown, and Corpus Christi Water as they discuss the dos, don'ts, and d'ohs! of federal consent decree negotiation and implementation.

### **Tour A: City of Houston – 69th Street Wastewater Treatment Plant**

Wednesday, July 16, 2025

1:00pm-3:00pm

The City of Houston's 69th Street Wastewater Treatment Plant is one of the largest wastewater plants in Texas, treating an average flow of 200 million gallons per day (MGD) with a peak flow capacity of 400 MGD. Originally constructed in 1978, the facility has been upgraded and expanded many times through the years. The plant uses pure oxygen instead of air as the oxygen source for aerobic treatment. Oxygen is generated at two on-site cryogenic plants capable of producing up to 300 tons/day of gaseous oxygen. Tertiary treatment is provided by 38 disk filters, and disinfection is achieved with sodium hypochlorite that is quenched with sodium bisulfite prior to discharge of the treated effluent to the Houston Ship Channel. Sludge is aerobically digested and then flash dried to produce between 25,000 to 35,000 dry tons of Class A fertilizer per year. City staff will give participants a tour of key facilities, providing an overview of operations and answering questions along the way. Participants will be required to bring and wear safety shoes. Hardhats, safety glasses, and vests also must be worn and can be supplied to participants who cannot bring their own.

## WORKSHOPS AND TOURS

*Additional fees apply*

**Tour B: Keith Wiess Park Stormwater Detention and Water Quality Basin**

Thursday, July 17, 2025

8:00 AM – 11:00 AM

On this tour, participants will explore the Keith-Wiess Park Stormwater Detention and Water Quality Basin. The project removed about 1,770,000 cubic yards of soil to create a detention basin that holds approximately 963 acre-feet of additional stormwater storage within the City of Houston's Keith-Wiess Park on Aldine-Westfield Road. This project includes a hike and bike trail system and various site amenities such as recreational equipment, soccer fields, walking pier and boardwalk.

## OPENING GENERAL SESSION

### Opening General Session

Wednesday, July 16

8:30 AM - 10:00 AM

Room: General Assembly C

1.5 GCHs

- 8:30 AM**      **City of Houston, Texas - Welcome**  
John Whitmire, Mayor of Houston
- 8:35 AM**      **WEF Collection Systems Stormwater Conference Chair Welcome**  
Stephanie Hanses, City of Raleigh, NC  
Jennifer Steffens, Ardurra
- 8:40 AM**      **WEF Welcome**  
Corey Williams, WEF Board of Trustees, SmartCover
- 8:45 AM**      **WEAT Welcome**  
Alissa Lockett, WEAT President and San Antonio Water System Vice President
- 8:50 AM**      **Miles and Miles (of Houston Water Collections)**  
Dr. Joseph Majdalani, Senior Assistant Director, City of Houston Water
- 9:20 AM**      **The Great Floods of Harris County**  
Dr. Tina Petersen, Executive Director of the Harris County Flood Control District
- 9:55 AM**      **Closing**
- 10:00 AM**      **Session Adjourns for Networking Break in Exhibit Hall**

## TECHNICAL SESSIONS

### **Session 01: Planning Resilient Collection Systems for the Future**

Wednesday, July 16, 2025

Room: 342 BE

10:45 AM - 11:45 AM

1.0 PDHs

**Moderators:** Kraig Moodie, RJN Group; Erich Smith, Wade Trim

#### **10:45 AM Collection System Planning: Considering Climate Change and Deep Uncertainty**

Mark Maimone, Sebastian Malter, Mashid Ghanbari, CDM Smith

#### **11:15 AM 2050 Vision: Combining Climate Change Rainfall Projections with Population Forecasts to Visualize System Limitations**

Robert Martz, HRSD

#### **11:45 AM Session adjourns for networking luncheon**

#### **Alternate Updating Orange County's Stormwater Design Rainfall Standards**

Mitchell Heineman, Lena Rivera, CDM Smith; Liuliu Wu, Orange County Public Works Department

### **Session 02: Regulatory Updates in Collection Systems**

Wednesday, July 16, 2025

Room: 342 CF

10:45 AM - 11:45 AM

1.0 PDHs

#### **10:45 AM Update on EPA Regulatory Policies and Priorities for 2025**

John Phillips, Parametrix; Drew Silton, Beveridge & Diamond, LLC

#### **11:45 AM Session adjourns for networking luncheon**

## TECHNICAL SESSIONS

### **Session 03: Strategies for Odor and Corrosion Control**

Wednesday, July 16, 2025

Room: 342 AD

10:45 AM - 11:45 AM

1.0 PDHs

**Moderators:** Ashok Perera, AtkinsRealis; Abate Wolde-Kirkos, Texas Southern University

**10:45 AM**      **No More Odors Here on the Streets of Bakersfield - Bakersfield's Odor Control Breakthrough: SulFeLox Saves Money, Improves Performance**  
Ian Watson, USP Technologies

**11:15 AM**      **Collection System Slopes Lead to Upset Neighbors**  
Richard Pope, Hazen and Sawyer

**11:45 AM**      **Session adjourns for networking luncheon**

**Alternate**      **Using Your Nose to Protect Your Assets – Wastewater Odor and Corrosion Control**  
Vaughan Harshman, V&A Consulting Engineers, Inc.; Erik Gibson, Nick Wagner, Manatee County Utilities; David Hunniford, V&A Consulting Engineers, Inc.

## TECHNICAL SESSIONS

**Session 04:      An In-depth Discussion of the 4th Edition of WEF's  
Manual of Practice FD-6 Existing Sewer Evaluation and  
Rehabilitation**

Wednesday, July 16, 2025  
10:45 AM – 11:45 AM

Room: 351 CB  
1.0 PDHs

- 10:45 AM      Introductions and Chapter 1**  
Robb Otey, Freese & Nichols
- 10:47 AM      Chapter 2 - Systematic Approach to Evaluation and  
Rehabilitation**  
Mazen Kawasmi, Freese & Nichols
- 10:55 AM      Chapter 3 - Methods of Structural Evaluation**  
Stephen Johnson, Freese & Nichols
- 11:00 AM      Chapter 4 - Methods of Hydraulic Evaluation**  
Steven Rhodes, Freese & Nichols
- 11:10 AM      Chapter 5 - Infiltration and Inflow Source Detection**  
Ethan Shires, Freese & Nichols
- 11:20 AM      Chapter 6- Selection of Sewer Rehabilitation Methods  
and Materials**  
Mike Hagen, Freese & Nichols
- 11:30 AM      Chapter 7 - Effectiveness of Sewer Rehabilitation**  
Erin Mills, Freese & Nichols
- 11:35 AM      Q&A with all speakers**
- 11:45 AM      Session adjourns for networking luncheon**

## TECHNICAL SESSIONS

### **Session 05: Stormwater and Coastal Resilience Modeling**

Wednesday, July 16, 2025

Room: 342 BE

1:30 PM - 4:45 PM

2.5 PDHs

**Moderators:** Robert Backman, Brisa Resilience; Heather Harris, Half Associates

**1:30 PM Coastal and Riverine Flooding: A Joint Probability Approach for Evaluating Storm Surge, Tides, and Extreme Rainfall Under Climate Change**

Mark Maimone, Sebastian Malter, Mashid Ghanbari, CDM Smith

**2:00 PM Changing Stormwater System Dynamics in Coastal Transition Zones**

Garland Pennison, HDR Engineering, Inc.

**2:30 PM 2D Storm Water Modeling: Case studies and lessons learned**

Khaled Abdo, Hazem Gheith, Arcadis

**3:00 PM Networking break in exhibit hall**

**3:45 PM Smart Stormwater Management at the Ford Motor Company's Research Campus**

Erich Smith, Wade Trim; Dayton Marchese, Opti

**4:15 PM Present and Future Damage: Quantifying Urban Flood Impacts in Philadelphia**

Emma Rakestraw, Elise Ibendahl, Courtney Finneran, Jacobs; Patrick Perhosky, Susan Patterson, Joy Wilson, Philadelphia Water Department

**4:45 PM Session adjourns for networking reception in exhibit hall**

**Alternate Applications of the Integrated Surface Water & Groundwater Model StormWise Across the United States**

Ryan Fucci, Alexander Miller, HDR

**Alternate Balancing Funding with Flood Risk Reduction**

Caroline Burger, Carollo Engineers, Inc.; Roger Glick, City of Waco; Ashli Lotz, Carollo Engineers, Inc.



## TECHNICAL SESSIONS

### **Session 06: Harnessing the Cloud for Smarter Water Management**

Wednesday, July 16, 2025

Room: 351 CB

1:30 PM - 3:00 PM

1.5 PDHs

**Moderators:** David White, Wade Trim; Jennifer Orizu, IDS Engineering Group

#### **1:30 PM Optimizing Capacity Management to Mitigate Flooding and CSOs in St. Louis, MO**

Jeffrey Riepe, Charles Pugh, Metropolitan St. Louis Sewer District; Viktor Hlas, Kathy Gee, Laney Nelson, Opti; Matthew Brown, IDEX

#### **2:00 PM Rapid Design and Deployment of Real-Time Control for CSO Compliance: Lessons for US Utilities from a UK Case Study**

William Raseman, HydroDigital; Tony Baines, Steve Blanks, Northumbrian Water Limited; Timothy Ruggaber, Luis Montestruque, HydroDigital

#### **2:30 PM Pixels and Puddles: Decoding, Depicting, and Dashboarding Urban Drainage**

Jennifer Baldwin, Elise Ibendahl, Athena Verghis, Suibing Liu, Jacobs

#### **3:00 PM Networking break in exhibit hall**

#### **Alternate Leveraging the Cloud to Power Resiliency: Alexandria's Flood Defense**

Daniel Baldwin, Megan Richardson, Jacobs, Jade Pereira, Jacobs

## TECHNICAL SESSIONS

**Session 07: Advancing Pipeline Inspection with Smart Technologies**

Wednesday, July 16, 2025

Room: 342 CF

1:30 PM - 4:45 PM

2.5 PDHs

**Moderators:** Paul Costa, RJN Group; Daniel Lamas, Brown and Caldwell

**1:30 PM Streamlining Sewer Inspection and Planning Processes with Artificial Intelligence**

Adam Byard, Jacobs; Bruce Giles, First Utility District of Knox County

**2:00 PM Deploying Advanced Drones and Artificial Intelligence in Sewer Condition Assessment**

Matthew Kiefer, Arcadis

**2:30 PM New Methods for Sewer Pipe Inspection- Pole Camera Screening to Reduce Costs For CCTV and Condition Assessment**

Scott Belz, Constantine Kontos, AECOM

**3:00 PM Networking break in exhibit hall**

**3:45 PM Enhancing Pipeline Assessment and Risk Management with CCTV and GIS**

Ashley Stuart, ITpipes; Mark Grabowski; Kyle Mundy, ITpipes

**4:15 PM Leveraging Smart Pigging Technologies as a Cost-Effective Method to Both Clean and Evaluate the Integrity of Pressurized Pipelines**

Mark Wade, Blue Water Solutions Group, Inc.

**4:45 PM Session adjourns for networking reception in exhibit hall**

## TECHNICAL SESSIONS

### **Session 08: Construction and Project Delivery**

Wednesday, July 16, 2025

1:30 PM - 4:45 PM

Room: 342 AD

2.5 PDHs

**Moderators:** David Servidio, Wade Trim; Abate Wolde-Kirkos, Texas Southern University

**1:30 PM Lessons Learned: Sanitary Sewer Project Converted to Pilot Tube Method of Guided Boring**

Steve Matheny, Logan Clay Products

**2:00 PM Trenchless Applications for New Wastewater Collection and Force Main Pipelines Located in Public Right-of-Way**

Maureen Carlin, Garver

**2:30 PM Advancing the ALCOSAN Clean Water Plan Tunnel System from Concept to Design**

Bradley Boddy, Wade Trim, ALCOSAN

**3:00 PM Networking break in exhibit hall**

**3:45 PM A Case Study of Real-Time Construction Management - Washington Industrial Park Utilities Improvement Project**

Feng Jiang, Vincent Morello, City of Hollywood

**4:15 PM Bulldozing Around Site-Specific Challenges During an Interceptor Force Main Damage Event**

Shirley Smith, Hampton Roads Sanitation District

**4:45 PM Session adjourns for networking reception in exhibit hall**

**Alternate Warning...This Presentation Contains Money Saving Information. Stop Overspending on Detention!**

Phillip Taylor, Oldcastle Infrastructure

## TECHNICAL SESSIONS

### Technology Spotlight I

Wednesday, July 16

3:15 PM - 3:40 PM

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3:15 p.m.	Technology Spotlight Introduction at entrance to exhibit hall
3:20 p.m.	2 Simultaneous Presentation A

**Booth 1635**      **Using Intelligence as a Service**  
Dennis McGinnis, Teledyne ISCO

**Booth 1709**      **Level-Only versus Area Velocity Flow Monitoring - When, Where, Why to Use One versus the Other?**  
Mike Ping, Duke's Root Control, Inc.

## TECHNICAL SESSIONS

**Session 09: Connecting Public Spaces and Protecting Waterways at National Western Center**

Wednesday, July 16, 2025

3:45 PM – 4:45 PM

Room: 351 CB

1.0 PDHs

**3:45 PM Connecting Public Spaces and Protecting Waterways at National Western Center - Delgany Interceptor Relocation & Holding Basin design and construction**

Christi Wisleder, Eric Hein, Merrick & Company

**4:30 PM Q & A**

**4:45 PM Session adjourns for networking reception in exhibit hall**

## TECHNICAL SESSIONS

### **Session 10: Leveraging Digital Tools for Stormwater Resilience**

Thursday, July 17, 2025

Room: 351 CB

8:30 AM - 10:00 AM

1.5 PDHs

**Moderators:** Abate Wolde-Kirkos, Texas Southern University; Caroline Burger, Carollo Engineers

### **8:30 AM Actionable Stormwater Platform - Implementation of a Digital Twin to Enhance Resilience**

John Irza, Alex Carlson, Dax Blake, Fernando Pasquel, Arcadis

### **9:00 AM City Water Resilience Approach: An Engagement & Decision Support Tool**

Thomas Rapley, Arup Canada Inc.

### **9:30 AM Indigenous Fine-Scale Modeling: Innovating Houston's Wastewater Management**

Fazle Rabbi, Deepa Rajbhandari, Lesny Mejia, City of Houston; Pratistha Pradhan, PNA Technical Services, Arcadis; Pranjali Borse, Civitas Junaid Ahmad, Arcadis

### **10:00 AM Networking break in exhibit hall**

### **Alternate Utilizing Artificial Intelligence in Water Distribution and Stormwater Collection Analysis**

Ken Hayes, Core and Main

## TECHNICAL SESSIONS

### **Session 11: Engaging Communities for Smarter Water Management**

Thursday, July 17, 2025

Room: 342 AD

8:30 AM - 11:45 AM

2.5 PDHs

**Moderators:** Rachel Jones, Gwinnett County Department of Water Resources; Ashok Perera, AtkinsRealis

#### **8:30 AM Where Does the Water Go? Making Waves with a Public Engagement Video**

David White, Wade Trim; Curtis Burris-White, Christopher Nastally, Great Lakes Water Authority; Andre Foster, First Fight

#### **9:00 AM Odor Control Begins and Ends with the Community**

Richard Pope, Hazen and Sawyer

#### **9:30 AM Q&A with all speakers**

#### **10:00 AM Networking break in exhibit hall**

#### **10:45 AM Real-Time Data in Naperville, IL Enables Flood Monitoring & Improved Stormwater Management**

Christopher Skehan, ADS LLC; Tony Conn, City of Naperville, IL; Kevin Steltzriede, City of Naperville, IL; Phil Watson, City of Naperville, IL

#### **11:15 AM Reimagining Dugway Brook through Community-Driven Solutions**

AJ Gutz, Wade Trim

#### **11:45 AM Session adjourns for networking luncheon in exhibit hall**

## TECHNICAL SESSIONS

### **Session 12: Digital Innovation for Smarter Wastewater Management**

Thursday, July 17, 2025

Room: 342 CF

8:30 AM - 10:00 AM

1.5 PDHs

**Moderators:** John Killips, GHD; Jennifer Baldwin, Jacobs

#### **8:30 AM Prescriptive Stage Unlocked: Houston's Wastewater Digital Transformation in Action**

Pratistha Pradhan, PNA Technical Services; Fazole Rabbi, City of Houston

#### **9:00 AM Transforming Sanitary Sewer Management: Integrating Cloud Solutions for Optimized Infrastructure Planning**

Fred Gerloff, Aqua America; Alton Whittle, Todd Plank, GHd

#### **9:30 AM Affecting the Grand Trifecta - Integration of Condition Assessment Program to Launch Multi-Billion Dollar Capital Improvement Program Updates**

Nicole Conner; Wes Pierce, Tom Davies, Janice Sloan, Trinity River Authority of Texas

#### **10:00 AM Networking break in exhibit hall**

#### **Alternate Democratizing Sewer Capacity Planning and Capacity Assurance through Digital Innovation**

Varun Srinivasan, Trinnex



## TECHNICAL SESSIONS

### **Session 13: Leveraging Technology for Sewer Management**

Thursday, July 17, 2025

Room: 342 BE

8:30 AM - 11:45 AM

2.5 PDHs

**Moderators:** Nirmal Kumar Balaraman, Inframark LLC; Scott Belz, AECOM

**8:30 AM Can I Level with You? Benefits and Limitations of Level-Only Flow Monitoring Technology**

Samantha Greivell, Tim Montgomery, Evan Tromble, Garver

**9:00 AM Hillsborough County, Florida, Pre- and Post-Rehabilitation Effectiveness Project for Wastewater Assessment Project Using Electrical Resistance Testing**

John Appenzeller, Hillsborough County; Mike App, Chuck Hansen, Matt Campos, Charles Wilmut, Electro Scan Inc.

**9:30 AM Real-Time Sewer Monitoring Optimizes Houston's Sewer Operations and Provides Predictive Data for Hydraulic Modeling as the Growing City Addresses Capacity Concerns**

Fazle Rabbi, City of Houston; Wade Martin, SmartCover Systems

**10:00 AM Networking break in exhibit hall**

**10:45 AM Leveraging the Toolbox to Find Significant I/I**

Jeffrey Griffiths, Christina Camonayan, RJN Group, Inc; Christopher Caro, WSSC

**11:15 AM altaStation: Assessing Urban Drainage Systems with Sight and Sound**

Daniel Murray, US EPA; Michael Bolan, Urbanalta

**11:45 AM Session adjourns for networking luncheon in exhibit hall**

## TECHNICAL SESSIONS

### Technology Spotlight II

Thursday, July 17

10:15 a.m. - 10:40 a.m.

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10:15 a.m.	Technology Spotlight Introduction at entrance to exhibit hall
10:20 a.m.	2 Simultaneous Presentation A

**Booth 1835      Nothing Like the Real Thing: Real-Time Sewer Monitoring  
Leverages Tech & Data to Optimize Operations**  
Wade Martin, SmartCover Systems

**Booth 1825      Risk-Informed Asset Management & Rehab  
Recommendations: Hands-On with a New AI-Driven  
Platform**  
Eric Sullivan, SewerAI Corporation

## TECHNICAL SESSIONS

### **Session 14: Navigating Stormwater Regulations**

Thursday, July 17, 2025

Room: 351 CB

10:45 AM - 11:45 AM

1.0 PDHs

**Moderators:** Laney Nelson, Opti; Greg Williams, StormTrap

#### **10:45 AM Comparative Analysis of Regulatory and Compliance Strategies in Commercial, Industrial, and Institutional (CII) Stormwater Permits**

Chris Meng Horng Hsu, Becky Chen, Michael Baker International

#### **11:15 AM Stormwater Policy Update**

*Speaker TBD*

#### **11:45 AM Session adjourns for networking luncheon in exhibit hall**

#### **Alternate The Clean Water Act, Water Quality, Water Quantity and Stormwater**

Patrick Bradley, Meredith Brock, Michael Baker International

### **Session 15: Tools for Stormwater Inspection and Maintenance**

Thursday, July 17, 2025

Room: 342 CF

10:45 AM - 11:45 AM

1.0 PDHs

**Moderators:** Timothy Palmer, Wade Trim; Kevin Enfinger, ADS Environmental Services

#### **10:45 AM Lights, Camera, Stormwater: Creating an In-House CCTV Inspection Program That Works**

Javier Valdez, RJN Group; Abel Leal, City of Fort Worth

#### **11:15 AM Digital Stormwater Asset Management: A 360° Stormwater System Streamview**

Sarah Fuller, Wade Trim, Ben Fowler, Terrain 360, Chaya Wilks, Wade Trim

#### **11:45 AM Session adjourns for networking luncheon in exhibit hall**

## TECHNICAL SESSIONS

### **Session 16: The Next Generation of SWMM: A Workshop for Stakeholders and Partners**

Thursday, July 17, 2025

Room: 342 AD

1:30 PM – 4:45 PM

2.5 PDHs

#### **1:30 PM Welcome and Introductions**

Dax Blake, Arcadis

#### **1:50 PM Envisioning the Next Generation of SWMM**

Caleb Buahin, EPA ORD

#### **2:30 PM Breakout group exercise - Reflect upon the needs of the end user. What is important to them? What do they need from SWMM, and does it meet that need today or not?**

David Garcia, Aguaze Solutions; Dax Blake, Arcadis; James Brescol, Tetra Tech; Steven Rhodes, Freese & Nichols; Caleb Buahin, EPA ORD

#### **3:00 PM Networking break in exhibit hall**

#### **3:30 PM Breakout groups continued**

#### **3:55 PM Reporting out of outcomes from breakout groups**

David Garcia, Aguaze Solutions; Dax Blake, Arcadis; James Brescol, Tetra Tech; Steven Rhodes, Freese & Nichols; Caleb Buahin, EPA ORD

#### **4:20 PM Next steps**

Caleb Buahin, EPA ORD

#### **4:45 PM Session adjourns**

## TECHNICAL SESSIONS

### **Session 17: Innovations in Green Infrastructure**

Thursday, July 17, 2025

1:30 PM - 4:45 PM

Room: 351 CB

2.5 PDHs

**Moderators:** Kalene Kobs, Stanley Consultants; Greg Williams, StormTrap

#### **1:30 PM A Green Infrastructure and One Water Approach for Fishermans Bend Urban Renewal Area**

Ryan Brotchie, GHD

#### **2:00 PM Beyond Pumps: Blending Blue, Green, and Grey Infrastructure to Reduce Flooding and Optimize Resilience in New Orleans**

Monica Stochl, Jacobs; Meagan Williams, City of New Orleans; Dustin Atchison, Paul Robinson, Jacobs

#### **3:00 PM Networking break in exhibit hall**

#### **2:30 PM Assessment of Green Infrastructures on Runoff Quantity and Quality by Modeling of an Urban Watershed**

Amir Motlagh, California State University - Sacramento

#### **3:45 PM Bringing a Cemetery to Life: Constructing a Living Shoreline for Riverside Memorial Cemetery**

Alan Davis, Alysondria Eason, Hazen and Sawyer

#### **4:15 PM Restoring Resilience to a Flood-Prone Community Park in Chester, PA**

Adi Pise, Suhas Nagavalli, HDR

#### **4:45 PM Session adjourns**

#### **Alternate Downsvew Green Infrastructure Integrated SWM Strategy**

Thomas Rapley, Arup Canada Inc.

## TECHNICAL SESSIONS

### **Session 18: Smarter Sewer Systems: Innovations, Efficiency, and Safety**

Thursday, July 17, 2025  
1:30 PM - 4:45 PM

Room: 342 BE  
2.5 PDHs

**Moderators:** Jennifer Steffens, Ardurra; Bo Cao, STV

#### **1:30 PM Use of Genetic Algorithms for Collection System Rehabilitation Planning**

Edward Bradfuhrer, GHD; Ari Feldman, Suez SES North America; Connor Bannochie, GHD

#### **2:00 PM From Data to Action: Bridging EAM and SCADA Data on AWS for Next-Generation Proactive Pump Management in Lift Stations**

Nahal Maymandi, IMS Engineers; Fazle Rabbi, City of Houston; Pratistha Pradhan, PNA Technical Services; Bo Cao, STV Inc

#### **2:30 PM Data-Driven Blockage Detection in Sewer Collection Systems**

Varun Srinivasan, Trinnex; Jim Costa, Shawn Syde, City of New Bedford

#### **3:00 PM Networking break in exhibit hall**

#### **3:45 PM Evaluation of Innovative and Effective Trash Capture Technologies in Urban Southern California**

Michael Weber; Jonathan Abelson, Serena Zhu, Gurjot Kohli, Ed Othmer, Stantec Inc.

#### **4:15 PM How to Prevent Injury from Tools Used by Sewer Cleaning Operators**

Rusty Nezat, Nezat Training and Consulting Inc.

#### **4:45 PM Session adjourns**

## TECHNICAL SESSIONS

### **Session 19: Smarter Strategies for I&I Detection and Reduction**

Thursday, July 17, 2025

Room: 342 CF

1:30 PM - 4:45 PM

2.5 PDHs

**Moderators:** Scott Belz, AECOM; Hazem Gheith, Arcadis

#### **1:30 PM A Scalable Model-Based Approach to Identifying and Mitigating Inflow and Infiltration (I/I) in Houston's Sanitary Sewer System**

Hazem Gheith, Arcadis; Fazle Rabbi, Joseph Majdalani, City of Houston

#### **2:00 PM Consent Order Lifted Successfully: A Journey from 300+ SSOs to Near Zero**

Daniel Jackson, RJN Group; Obatayo Harold Hounwanou, Little Rock Water Reclamation Authority

#### **2:30 PM Identifying and Prioritizing Critical Sewer Pipes Using GPAD and SSO Metrics**

Sateesh Puri, Ardurra Group, Inc.; Jinia Islam, Fazle Rabbi, Houston Public Works

#### **3:00 PM Networking break in exhibit hall**

#### **3:45 PM Unlocking Efficiency: Flow Monitoring, SSES, and Predictive Modeling, City of Victoria**

Jose Maldonado, Daniela Lopez, RJN Group; Ken Gill, City of Victoria

#### **4:15 PM BASINIQ™ - Revolutionizing Inflow and Infiltration (I&I) Detection in Wastewater Collection Systems**

Jon Borden, RH Borden and Company; Jay Boyd, Grundfos

#### **4:45 PM Session adjourns**

#### **Alternate Building Watertight Sewers - York Region's Inflow and Infiltration Reduction Standard for Sewers Servicing New Development**

Cassie Liu, Ranin Nseir, The Regional Municipality Of York

## TECHNICAL SESSIONS

### Technology Spotlight III

Thursday, July 17

3:15 p.m. - 3:40 p.m.

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3:15 p.m.	Technology Spotlight Introduction at entrance to exhibit hall
3:20 p.m.	2 Simultaneous Presentation A

**Booth 1722      The Doctor Will See You Now: Earn A Clean Bill of Health for your Collection System Through Screening Level Assessments**

Matthew Brown, ADS Environmental Services

**Booth 1823      Force Main Peace of Mind with two easy steps**

Stephen Jeffus, RJN Group, Inc.



## TECHNICAL SESSIONS

**Session 20: Under Pressure: Managing Wastewater Collection Systems with Extensive Pump Stations and Force Mains**

Friday, July 18, 2025

Room: 342 CF

8:30 AM – 10:00 AM

1.5 PDHs

**Moderators:** Kirsten Burns, Eric Harold, Carollo

**8:30 AM Introduction**  
Kirsten Burns, Carollo

**8:35 AM Large Regional Utility: How the 14<sup>th</sup> Largest Wastewater Utility Manages over 100 Regional Pump Stations and 500 Miles of Force Main (Consent decree management, staffing, asset management)**  
Gene Rutledge, Hampton Roads Sanitation District

**8:55 AM Mid-sized Utility: Regional Utility with over 170 Pump Stations and 350 Miles of Force Main (Low pressure systems management, disaster planning, managing manifolded forcemains)**  
Collin Whitehead, CFPUA

**9:15 AM Mid-sized Utility: Utility with 900 Lift Stations and 400 Miles of Force Main (I/I management, aging infrastructure, pump energy management)**  
Nick Wagner, Manatee County Utilities

**9:35 AM Interactive Session**

**10:00 AM Session adjourns for networking break**

## TECHNICAL SESSIONS

### **Session 21: Innovations in Texas Water Infrastructure**

Friday, July 18, 2025

Room: 342 AD

8:30 AM - 11:45 AM

3.0 PDHs

**Moderators:** Derek Schwanke, KFrieze + Lochner; Ashley Smart, RJN Group

**8:30 AM**      **How a Large Texas Utility Leveraged Data Analytics to Optimize Their Flow Metering Maintenance Approach**  
Yushi Yasuda, Garver

**9:00 AM**      **Proactively Evaluate Sedimentation Risks in the Design of Inverted Siphon of Sanitary Sewer System, A TRA Case study**  
Suibing Liu, Jacobs; Brad Pierce, Nick Dons, Trinity River Authority of Texas

**9:30 AM**      **Integrated Solutions for Playa Lake Flooding and Fishing Pond Management: Addressing Flooding, Food Source Sustainability, ADA Ramp Accessibility, and Erosion Control**  
Jaime Ordonez, Emily Daniel, HDR

**10:00 PM**      **Networking break**

**10:15 AM**      **City of Austin - Northwest Area Lift Station Improvement Program Streamlining Regional Wastewater Collection Systems and Improving Flow Conveyance with Strategic Long-Term Planning**  
Shwetha Pandurangi, Allison Densler, K Frieze and Associates

**10:45 AM**      **City of Houston's Use of Artificial Intelligence in Automated Defect Recognition and Coding of Sewer Lines, Reflections, Challenges and Lessons Learned.**  
Ayobamidele Bello, Keval Satra, HR Green; Fazle Rabbi, City of Houston

## TECHNICAL SESSIONS

### **Session 21: Innovations in Texas Water Infrastructure**

Friday, July 18, 2025

Room: 342 AD

8:30 AM - 11:45 AM

3.0 PDHs

#### **11:15 AM Upgrading Lift Station Maintenance: Predictive Insights Through SCADA and AWS Data Architecture for Advanced Infrastructure Management**

Nahal Maymandi, IMS Engineers; Fazle Rabbi, City of Houston; Pratistha Pradhan, PNA Technical Services; Jinia Islam, City of Houston

#### **11:45 AM Session adjourns**

#### **Alternate Engineering Sustainability and Modernization Efforts into Wastewater Systems - The Case of the Great Hills Lift Station in Austin, Texas**

Shwetha Pandurangi, K Friese and Associates; Sam Shorter, City of Austin

#### **Alternate El Paso Uses Real-Time Remote Technology to Monitor its Sewers and Streamline its Preventive Maintenance**

Gilbert Trejo, El Paso Water; Brogan Quist, SmartCover Systems

## TECHNICAL SESSIONS

### **Session 22: One Water Strategies in Action**

Friday, July 18, 2025

8:30 AM - 10:00 AM

Room: 342 BE

1.5 PDHs

**Moderators:** Sarah Fuller, Wade Trim; Katie Zheng, Nexus Water Group

**8:30 AM      Diverting Stormwater to Subsurface Infiltration Facilities to Reduce Flooding, Manage Water Quality, and Provide Community Benefits in Lomita, California**

Jennifer Coryell, Paul Caswell, Hazen and Sawyer; Jenn Howell, City of Lomita; Christopher Jansen, Alysondria Eason, Hazen and Sawyer

**9:00 AM      The One Water Approach in Action: The MacArthur Lake Stormwater Capture Project in Downtown Los Angeles**

Julia Schmitt, Inge Wiersema, Carollo Engineers

**9:30 AM      Using a Dynamic Risk Based planning approach for the City of Fort Myers Infrastructure Improvements Program**

Pradeep Nagarajan, GHD; Jason Sciandra, City of Fort Myers

**10:00 PM      Networking break**

## TECHNICAL SESSIONS

### **Session 23: Community Engagement during Construction**

Friday, July 18, 2025

Room: 351 CB

8:30 AM - 10:00 AM

1.5 PDHs

**Moderators:** Shwetha Pandurangi, K Friese and Associates; Peter Brask, HDR

**8:30 AM Long, Curved Microtunnelling Drives for a New Force Main Through Environmentally Sensitive and Urbanized Community**  
Bradley Marin, GHD Ltd.

**9:00 AM Optimizing Davenport's Sanitary Sewer Capacity to Support Community Growth**  
Alex Potter, McClure; Kim Hanson, Hazen & Sawyer

**9:30 AM Virginia's Eastern Shore Sewer System Improvements – A small Communities Design-Build Project with Large Regional Impacts**  
Alan Edwards, Phil Hubbard, HRSD; Dan Buckley, Garney Companies Inc

**10:00 PM Networking break**

**Alternate Fitzsimmons-Peoria Stormwater Outfall: Reducing Flood Risk in a Highly Urbanized Area**  
Rebecca Falk, Caroline Burger, Carollo Engineers, Inc.

## TECHNICAL SESSIONS

### **Session 24: Flood Resilience for Collection Systems**

Friday, July 18, 2025

10:15 AM - 11:45 AM

Room: 342 CF

1.5 PDHs

**Moderators:** Jennifer Steffens, Ardurra, Niki Foster, Parsons Water & Infrastructure

#### **10:15 AM Driving Resiliency: Evaluating Flood Protection for a Wastewater Treatment Facility in Pinellas County, FL**

Anusha Ravichandran, Kris Samples, Mead & Hunt; Alyssa Thompson, Pinellas County Utilities; Douglas Moseley, Mead & Hunt

#### **10:45 AM Cost-Effective Planning for a Resilient and Sustainable Wastewater Collection and Transmission System for the City of Houston**

Jeffrey Pelletier, AtkinsRealis; Fazle Rabbi, City of Houston

#### **11:15 AM Building Resilience In Boulder, Colorado For Wastewater Infrastructure**

Peter Brask, HDR Engineering, Inc.; Christopher Olson, City of Boulder

#### **11:45 AM Session adjourns**

#### **Alternate Retire or Rehab? Optimizing existing wastewater and collection system facilities to improve resiliency**

Kirsten Burns

## TECHNICAL SESSIONS

### **Session 25: Advancing Modeling for Design**

Friday, July 18, 2025

Room: 342 BE

10:15 AM - 11:45 AM

1.5 PDHs

**Moderators:** Nirmal Kumar Balaraman, Inframark LLC; Marco Reyes, City of Houston

#### **10:15 AM Analysis of CFD Simulations of Structures in Support of the EAA A-2 STA Project**

Angel Gabriel Retana, Carollo Engineers; Daniel Gilbert, Brown and Caldwell

#### **10:45 AM Enhancing Industrial Design: A Comparative Study of CFD and Physical Modeling for Vortex Drop Structures**

Zahra Mansouri, Andrew McCoy, Adrian Strain, Brandon Hilbrich, HDR; Dan Gessler, Flow Science; Andrew Johansson, Verdantas; Lizzie Wilson, BGE; Ryan Jones, Flow Science

#### **11:15 AM It's Alive! Modeling Lifecycle Through Model Maintenance**

Thomas Loewen, AtkinsRealis

#### **11:45 AM Session adjourns**

## TECHNOLOGY SPOTLIGHTS

### Technology Spotlight I

**Wednesday, July 16**

**3:15 p.m. - 3:40 p.m.**

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3:20 p.m. 2 Simultaneous Presentation A

**Booth 1635**      **Using Intelligence as a Service**  
Dennis McGinnis, Teledyne ISCO

**Booth 1709**      **Level-Only versus Area Velocity Flow Monitoring - When, Where, Why to Use One versus the Other?**  
Mike Ping, Duke's Root Control, Inc.

### Technology Spotlight II

**Thursday, July 17**

**10:15 a.m. - 10:40 a.m.**

*The two exhibitors listed below will each hold a 20-minute presentation once each. Participants are invited to attend a different presentation at each of the times listed below. Choose the presentation you would like to attend. Each presentation happens at the exhibitor's booth. Presentations kick off concurrently at: **10:20 a.m.** in each of the two booths.*

10:15 a.m. Technology Spotlight Introduction at entrance to exhibit hall  
10:20 a.m. 2 Simultaneous Presentation A

**Booth 1835**      **Nothing Like the Real Thing: Real-Time Sewer Monitoring Leverages Tech & Data to Optimize Operations**  
Wade Martin, SmartCover Systems

**Booth 1825**      **Risk-Informed Asset Management & Rehab Recommendations: Hands-On with a New AI-Driven Platform**  
Eric Sullivan, SewerAI Corporation



## TECHNOLOGY SPOTLIGHTS

### Technology Spotlight III

Thursday, July 17

3:15 p.m. - 3:40 p.m.

*The two exhibitors listed below will each hold a 20-minute presentation once each. Participants are invited to attend a different presentation at each of the times listed below. Choose the presentation you would like to attend. Each presentation happens at the exhibitor's booth. Presentations kick off concurrently at: **3:20 p.m.** in each of the two booths.*

3:15 p.m.	Technology Spotlight Introduction at entrance to exhibit hall
3:20 p.m.	2 Simultaneous Presentation A

**Booth 1722      The Doctor Will See You Now: Earn A Clean Bill of Health for your Collection System Through Screening Level Assessments**

Matthew Brown, ADS Environmental Services

**Booth 1823      Force Main Peace of Mind with two easy steps**

Stephen Jeffus, RJN Group, Inc.

## EXHIBITION INFORMATION

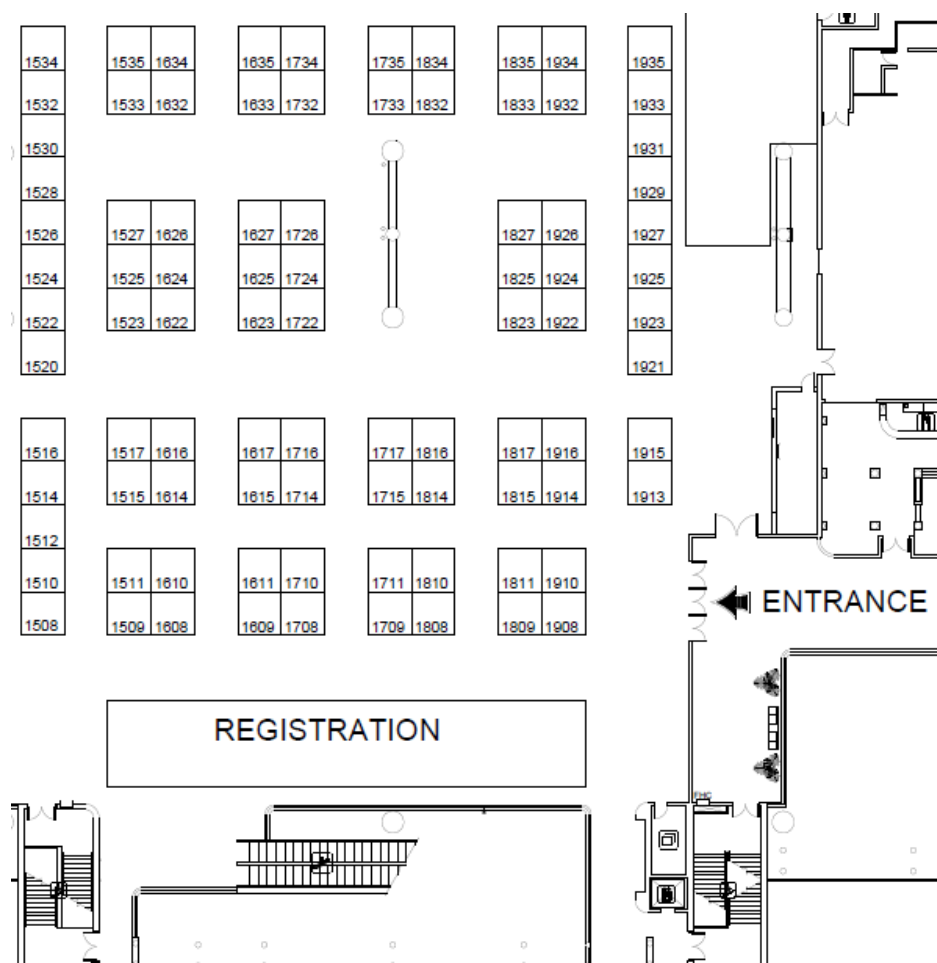
### Exhibition Schedule

<b>Wednesday, July 16</b>	<b>10:00 am - 6:30 pm ..... Exhibit Hall Open</b>
	10:00 am - 10:45 am..... Networking Break
	11:45 pm - 1:30 pm.....Networking Luncheon
	3:00 pm - 3:45 pm.....Networking Break
	3:15 pm - 3:40 pm ..... Technology Spotlight I
	4:45 pm - 6:30 pm ..... Networking Reception
<b>Thursday, July 17</b>	<b>10:00 am - 3:45 pm ..... Exhibit Hall Open</b>
	10:00 am - 10:45 am .....Networking Break
	10:15 am - 10:40 am ..... Technology Spotlight II
	11:45 pm - 1:30 pm.....Networking Luncheon
	3:00 pm - 3:45 pm.....Networking Break
	3:15 pm - 3:40 pm..... Technology Spotlight III

*Individuals under 18 entering the Exhibition must be accompanied by a parent or guardian at all times. The parent or guardian must obtain a badge at registration, and assumes all risk and responsibility for the minor's safety.*

*Due to the proprietary nature of the displays, photography of displays and materials is forbidden without exhibitors' express permission.*

## EXHIBIT HALL FLOOR PLAN



## EXHIBITOR DIRECTORY

As of June 24, 2025

For Company Descriptions, view Exhibitors in the mobile app.

**Ace Pipe Cleaning, Inc.** ..... Booth 1515  
<https://acepipe.com>

**ADS Environmental Services** ..... Booth 1722  
[www.adsenv.com](http://www.adsenv.com)

**Advanced Pipe Repair Inc.** ..... Booth 1626  
<https://www.advancedpiperepair.com>

**Aqua-Aerobic Systems, Inc.** ..... Booth 1710  
<https://aqua-aerobic.com>

**Aquanuity** ..... Booth 1608  
<https://aquanuity.com>

**Aquarius Systems**..... Booth 1516  
<https://aquarius-systems.com>

**Avanti International** ..... Booth 1527  
<https://www.avantigrout.com>

**Badger Meter**..... Booth 1833  
[www.badgermeter.com](http://www.badgermeter.com)

**Compliance EnviroSystems, LLC (CES)** ..... Booth 1724  
<https://www.ces-sses.com>

**Contractor's Source, Inc.** ..... Booth 1634

**Core & Main** ..... Booth 1609  
[www.coreandmain.com](http://www.coreandmain.com)

**Cretex Specialty Products** ..... Booth 1809  
[www.cretexseals.com](http://www.cretexseals.com)

**CUES, Inc.**..... Booth 1510  
[www.cuesinc.com](http://www.cuesinc.com)

**DN Tanks**..... Booth 1927  
[www.dntanks.com](http://www.dntanks.com)

## EXHIBITOR DIRECTORY

<b>Doetsch Environmental Services</b> .....	<b>Booth 1832</b>
<a href="https://doetschenv.com">https://doetschenv.com</a>	
<b>Duke's Root Control, Inc.</b> .....	<b>Booth 1709</b>
<a href="http://www.dukes.com">www.dukes.com</a>	
<b>EGSW Environmental Group Southwest</b> .....	<b>Booth 1520</b>
<a href="https://www.egsw.us">https://www.egsw.us</a>	
<b>Electro Scan, Inc.</b> .....	<b>Booth 1632</b>
<a href="http://www.electroscan.com">www.electroscan.com</a>	
<b>Environment One Corporation</b> .....	<b>Booth 1623</b>
<a href="https://www.eone.com">https://www.eone.com</a>	
<b>Envirosight</b> .....	<b>Booth 1622</b>
<a href="https://envirosight.com">https://envirosight.com</a>	
<b>Essential Equipment</b> .....	<b>Booth 1535</b>
<a href="http://www.essentialequipment.com">www.essentialequipment.com</a>	
<b>Evoqua Water Technologies, Xylem</b> .....	<b>Booth 1908</b>
<a href="https://www.xylem.com">https://www.xylem.com</a>	
<b>Ferguson Waterworks</b> .....	<b>Booth 1525</b>
<a href="https://www.fergusonwaterworks.com">https://www.fergusonwaterworks.com</a>	
<b>Ford Meter Box</b> .....	<b>Booth 1524</b>
<a href="https://www.fordmeterbox.com">https://www.fordmeterbox.com</a>	
<b>Fuquay, Inc.</b> .....	<b>Booth 1625</b>
<a href="https://www.fuquay.com">https://www.fuquay.com</a>	
<b>FUSO America</b> .....	<b>Booth 1512</b>
<a href="https://www.fusoamerica.com">https://www.fusoamerica.com</a>	
<b>Grande Water Management Systems</b> .....	<b>Booth 1508</b>
<a href="https://grandeinc.com">https://grandeinc.com</a>	
<b>Grundfos</b> .....	<b>Booth 1533</b>
<a href="http://www.grundfos.com">www.grundfos.com</a>	
<b>High Tide Technologies</b> .....	<b>Booth 1530</b>
<a href="https://www.htt.io">https://www.htt.io</a>	

## EXHIBITOR DIRECTORY

<b>Hobas Pipe USA, Inc.</b> .....	<b>Booth 1522</b>
<a href="https://hobaspipe.com">https://hobaspipe.com</a>	
<b>InfoSense Inc.</b> .....	<b>Booth 1834</b>
<a href="https://infosense.com">https://infosense.com</a>	
<b>Infrastructure Repair Systems, LLC</b> .....	<b>Booth 1633</b>
<a href="http://irsi.net">http://irsi.net</a>	
<b>Keen Pump Company Inc.</b> .....	<b>Booth 1924</b>
<a href="http://www.keenpump.com">www.keenpump.com</a>	
<b>Krah USA</b> .....	<b>Booth 1916</b>
<a href="http://www.krahusa.com">www.krahusa.com</a>	
<b>Kusters Water, a Division of Zima Corporation</b> .....	<b>Booth 1610</b>
<a href="http://www.kusterswater.com">www.kusterswater.com</a>	
<b>Landia, Inc.</b> .....	<b>Booth 1714</b>
<a href="http://www.landiainc.com">www.landiainc.com</a>	
<b>Logiball Inc.</b> .....	<b>Booth 1612</b>
<a href="http://www.logiball.com">www.logiball.com</a>	
<b>Madewell Products Corporation</b> .....	<b>Booth 1811</b>
<a href="http://www.madewell.net">www.madewell.net</a>	
<b>McCain Waterworks Marketing</b> .....	<b>Booth 1732</b>
<a href="http://www.mccainww.com">http://www.mccainww.com</a>	
<b>McCrometer, Inc.</b> .....	<b>Booth 1509</b>
<a href="http://www.mccrometer.com">www.mccrometer.com</a>	
<b>McIntire Management Group</b> .....	<b>Booth 1514</b>
<a href="https://mmg-solutions.net">https://mmg-solutions.net</a>	
<b>McKee Utility Contractors, LLC</b> .....	<b>Booth 1923</b>
<a href="http://www.mckeeutility.com">www.mckeeutility.com</a>	
<b>Nezat Training and Consulting, Inc.</b> .....	<b>Booth 1528</b>
<a href="https://nezat.com">https://nezat.com</a>	
<b>OBIC LLC</b> .....	<b>Booth 1810</b>
<a href="http://www.obicproducts.com">www.obicproducts.com</a>	

## EXHIBITOR DIRECTORY

<b>Orenco Systems</b> .....	<b>Booth 1814</b>
<a href="http://www.orenco.com">www.orenco.com</a>	
<b>Ovivo USA</b> .....	<b>Booth 1926</b>
<a href="http://www.ovivowater.com">www.ovivowater.com</a>	
<b>Penccco</b> .....	<b>Booth 1922</b>
<a href="http://www.penccco.com">www.penccco.com</a>	
<b>Prime Resins</b> .....	<b>Booth 1614</b>
<a href="https://primeresins.com">https://primeresins.com</a>	
<b>Process Wastewater Technologies LLC</b> .....	<b>Booth 1817</b>
<a href="https://pwtech.us">https://pwtech.us</a>	
<b>Pro-Pipe</b> .....	<b>Booth 1925</b>
<a href="https://pro-pipe.com">https://pro-pipe.com</a>	
<b>Quickstream Solutions Inc.</b> .....	<b>Booth 1532</b>
<a href="https://www.quickstreamsolutions.com">https://www.quickstreamsolutions.com</a>	
<b>Red Valve</b> .....	<b>Booth 1523</b>
<a href="https://www.redvalve.com">https://www.redvalve.com</a>	
<b>RedZone Robotics, Inc.</b> .....	<b>Booth 1726</b>
<a href="http://www.redzone.com">www.redzone.com</a>	
<b>REXA, Inc.</b> .....	<b>Booth 1708</b>
<a href="http://www.rexa.com">www.rexa.com</a>	
<b>RH Borden and Company LLC</b> .....	<b>Booth 1733</b>
<a href="https://rhborden.com">https://rhborden.com</a>	
<b>RJN Group</b> .....	<b>Booth 1823</b>
<a href="https://www.rjn.com">https://www.rjn.com</a>	
<b>Romtec Utilities</b> .....	<b>Booth 1913</b>
<a href="https://romtecutilities.com">https://romtecutilities.com</a>	
<b>RootX Company</b> .....	<b>Booth 1517</b>
<a href="https://rootx.com">https://rootx.com</a>	
<b>SewerAI</b> .....	<b>Booth 1825</b>
<a href="https://www.sewerai.com">https://www.sewerai.com</a>	

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<b>Sewer Sentry Sales &amp; Marketing</b> .....	<b>Booth 1932</b>
<a href="https://sewersentry.com">https://sewersentry.com</a>	
<b>SmartCover Systems</b> .....	<b>Booth 1835</b>
<a href="https://smartcoversystems.com">https://smartcoversystems.com</a>	
<b>Smith &amp; Loveless Inc.</b> .....	<b>Booth 1717</b>
<a href="http://www.SmithAndLoveless.com">www.SmithAndLoveless.com</a>	
<b>Soleno LLC</b> .....	<b>Booth 1921</b>
<a href="https://solenousa.com">https://solenousa.com</a>	
<b>SPRAYROQ INC.</b> .....	<b>Booth 1625</b>
<a href="http://www.sprayroq.com">www.sprayroq.com</a>	
<b>StormTank (Brentwood Industries, Inc.)</b> .....	<b>Booth 1711</b>
<a href="https://stormwater.brentwoodindustries.com">https://stormwater.brentwoodindustries.com</a>	
<b>Stormwater Professionals Group</b> .....	<b>Booth 1715</b>
<a href="http://www.swpgrp.com">www.swpgrp.com</a>	
<b>Structural Technologies</b> .....	<b>Booth 1910</b>
<a href="https://www.structuraltechnologies.com">https://www.structuraltechnologies.com</a>	
<b>Taplin Group, LLC</b> .....	<b>Booth 1815</b>
<a href="https://www.taplingroup.com">https://www.taplingroup.com</a>	
<b>TCEQ MC145</b> .....	<b>Booth 1915</b>
<a href="https://www.tceq.texas.gov">https://www.tceq.texas.gov</a>	
<b>Teledyne ISCO</b> .....	<b>Booth 1635</b>
<a href="https://teledyneisco.com/en-us">https://teledyneisco.com/en-us</a>	
<b>TREKK Design Group, LLC</b> .....	<b>Booth 1615</b>
<a href="https://trekklc.com">https://trekklc.com</a>	
<b>Trumbull MFG</b> .....	<b>Booth 1808</b>
<a href="http://www.Trumbull-mfg.com">www.Trumbull-mfg.com</a>	
<b>Utility Systems Science and Software</b> .....	<b>Booth 1716</b>
<a href="https://uscubed.com">https://uscubed.com</a>	
<b>Vortex Companies</b> .....	<b>Booth 1914</b>
<a href="https://vortexcompanies.com">https://vortexcompanies.com</a>	



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<b>Warrior USA LLC .....</b>	<b>Booth 1934</b>
<a href="https://thermoformliner.com">https://thermoformliner.com</a>	
<b>Wastewater Transport Services .....</b>	<b>Booth 1526</b>
<a href="http://www.wastewaterts.com">www.wastewaterts.com</a>	
<b>Water Environment Association of Texas .....</b>	<b>Booth 1507</b>
<a href="http://www.weat.org">www.weat.org</a>	
<b>WinCan LLC.....</b>	<b>Booth 1622</b>
<a href="http://www.wincan.com">www.wincan.com</a>	
<b>Zone Industries .....</b>	<b>Booth 1933</b>
<a href="https://zoneindustries.com">https://zoneindustries.com</a>	



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