

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
#CSSWConf



Download the conference mobile app using this QR code or search "EventPilot" in the Google Play / App Store. for the most up-to-date version of the program.

Please use access code: CSWEAT26

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

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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!

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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.

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 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.

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).*

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.

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
9:00 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
1:30 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
Session 06
Sessions 05, 07, 08
Technology Spotlight I
Session 09
Networking Reception

Thursday, July 17

8:00 AM - 5:00 PM
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
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
Wednesday, July 16				
OGS	Opening General Session	8:30 AM	10:00 AM	
Networking Break		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
Networking Luncheon		11:45 AM	1:30 PM	Exhibit Hall
Tour A	City of Houston – 69th Street Wastewater Treatment Plant	1:00 PM	3:00 PM	
Session 06	Harnessing the Cloud for Smarter Water Management	1:30 PM	3:00 PM	351 CB
Session 05	Stormwater and Coastal Resilience Modeling	1:30 PM	4:45 PM	342 BE
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
Networking Reception		4:45 PM	6:15 PM	Exhibit Hall

SESSIONS-AT-A-GLANCE

Session Number	Event	Start Time	End Time	Room
Thursday, July 17				
Tour B	Keith Wiess Park Stormwater Detention and Water Quality Basin	8:00 AM	11:00 AM	
Session 10	Leveraging Digital Tools for Stormwater Resilience	8:30 AM	10:00 AM	351 CB
Session 12	Digital Innovation for Smarter Wastewater Management	8:30 AM	10:00 AM	342 CF
Session 11	Engaging Communities for Smarter Water Management	8:30 AM	11:45 AM	342 AD
Session 13	Leveraging Technology for Sewer Management	8:30 AM	11:45 AM	342 BE
Networking Break		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
Networking Luncheon		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
Friday, July 18				
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
Networking Break		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: 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
General Assembly A
8:30 AM - 10:00 AM

Room:

1.5 GCHs

- 8:30 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 Majdalanj, 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/WEF CSSW SC 2026 Destination**
- 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

10:45 AM - 11:45 AM

Room: 342 AD

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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10:20 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

10:45 AM - 11:45 AM

Room: 351 CB

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

10:45 AM - 11:45 AM

Room: 342 CF

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 14th 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

10:15 AM - 11:45 AM

Room: 342 BE

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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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.

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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.

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Matthew Brown, ADS Environmental Services

Booth 1823 Force Main Peace of Mind with two easy steps
Stephen Jeffus, RJN Group, Inc.

EXHIBITION INFORMATION

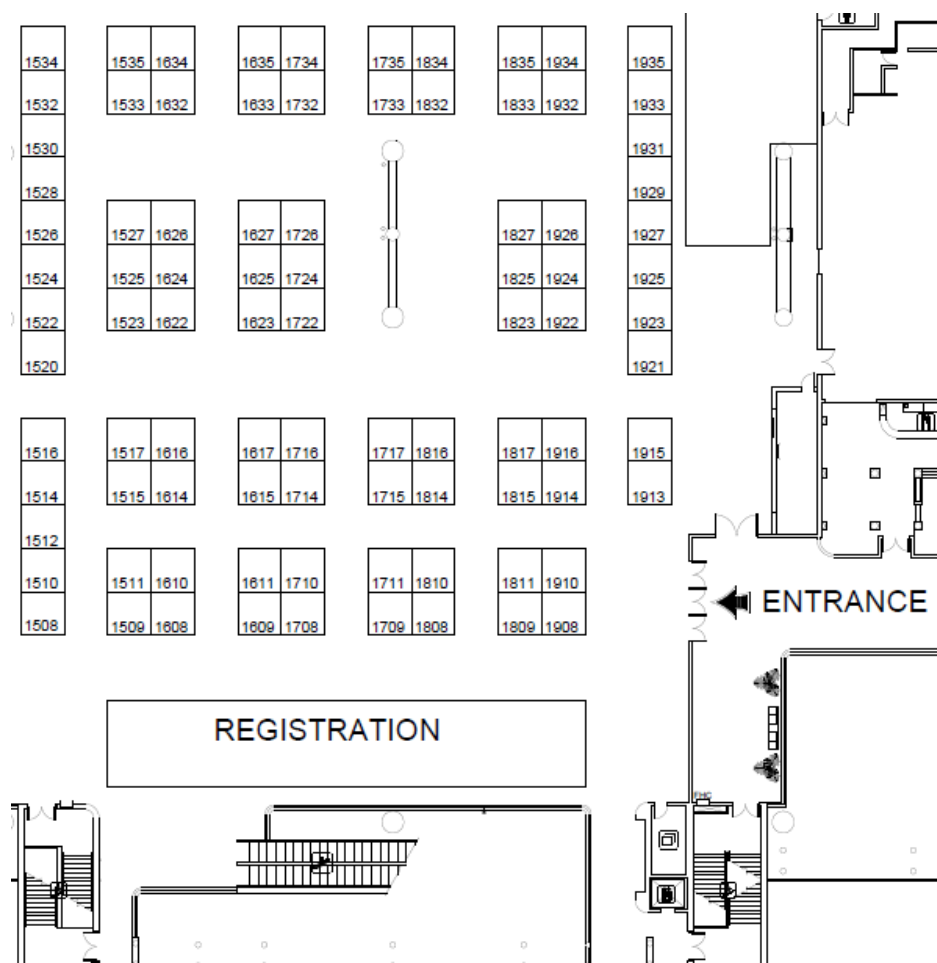
Exhibition Schedule

Wednesday, July 16	10:00 am - 6:30 pm Exhibit Hall Open
	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
Thursday, July 17	10:00 am - 3:45 pm Exhibit Hall Open
	10:00 am - 10:45 amNetworking 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

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

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

Contractor's Source, Inc. Booth 1634

Core & Main Booth 1609
www.coreandmain.com

Cretex Specialty Products Booth 1809
www.cretexseals.com

CUES, Inc...... Booth 1510
www.cuesinc.com

DN Tanks..... Booth 1927
www.dntanks.com

EXHIBITOR DIRECTORY

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

EXHIBITOR DIRECTORY

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

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

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

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



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