



PIPELINES 2025 CONFERENCE

Tampa, FL | August 9–13, 2025

*Pipelines – Navigating the Unseen to Connect
Critical Infrastructure and Resources*



Tampa Convention Center

www.pipelinesconference.org

#Pipelines2025

Welcome to Tampa, Florida, for the UESI Pipelines 2025 Conference!

2025 is a milestone year. UESI celebrates “10 Years of Excellence in Sharing Knowledge, Driving Innovation and Growth,” and our conference theme—“Navigating the Unseen to Connect Critical Infrastructure and Resources”—captures both the spirit of the anniversary and the vital work we do every day.

Why Tampa Shines

Framed by sparkling bay views and a revitalized Riverwalk, Tampa blends world-class attractions with a deep maritime and utility heritage—an ideal setting to explore how hidden networks quietly sustain thriving communities.

What Awaits You

- Two days of pre-conference workshops—featuring the Large Diameter Pipeline Forum, Large Equipment Owners Forum, and Asset Management.
- 200+ presentations across 9 concurrent tracks of 72 sessions covering rehabilitation, design, trenchless technologies, AI driven system modeling, seismic resilience, leak detection, alternate project delivery, and more.
- Special events include the Emerging Leaders Program, the Diversity in Engineering breakfast, the UESI Golf Tournament, and a technical tour of the David L. Tippin Water Treatment Facility and the Hillsborough River Dam.
- Exhibit Hall packed with the latest products, services, and live demonstrations from leading suppliers.

- Earn up to 27.5 PDHs while strengthening your professional network.

Celebrating a Decade—Shaping the Next

For 10 years, UESI has empowered professionals to see beyond the surface, tackle unseen challenges, and deliver resilient, sustainable infrastructure. Join us in Tampa as we honor that legacy and chart the innovations that will define the next decade of pipeline engineering.

We can't wait to welcome you with warm Gulf Coast hospitality and an unforgettable week of learning, collaboration, and celebration!

Felipe Pulido, P.E., M.ASCE & Brad Baird, P.E.

Conference Co-Chairs, Pipelines 2025



2025

Schedule-At-A-Glance

Saturday, August 9, 2025

8:00 AM – 12:00 PM	Workshop 250 – Large Diameter Pipeline Forum: Owners Perspective <i>Sponsored by Xylem - Pure Technologies</i>	Florida Ballroom Salon IV
8:30 AM – 11:30 AM	Pipeline Division Executive Committee Meeting	Meeting Room 3
9:00 AM – 11:30 AM	Pipelines Journal Editorial Board Meeting	Meeting Room 2
12:30 PM – 3:30 PM	UESI Board of Governors Meeting	The Veranda Room
1:00 PM – 5:00 PM	Workshop 250 – Large Diameter Pipeline Forum: Users Only Session <i>Sponsored by Plastics Pipe Institute</i>	Florida Ballroom Salon IV

Sunday, August 10, 2025

7:00 AM – 5:00 PM	Registration	TCC 2nd Floor
7:00 AM – 4:00 PM	Exhibitor Move-In	TCC Exhibit Hall 3rd Floor
8:00 AM – 12:00 PM	Workshop 224 – Large Diameter Pipeline Forum: Service Providers Perspective <i>Sponsored by Plastics Pipe Institute</i>	Meeting Room 4
8:00 AM – 12:00 PM	Seismic Design of Buried Water/Wastewater Pipelines Task Committee Meeting	Florida Ballroom: Salon III
10:00 AM – 11:30 AM	Emerging Leaders Program: Welcome Session	Grand Ballroom Salon E
10:00 AM – 12:00 PM	Pressure Pipeline Design for Water and Wastewater Committee	Meeting Room 3
10:00 AM – 12:00 PM	Pipeline Route Selection in Rural and Urban Areas Committee	Florida Ballroom: Salon VI
10:00 AM – 12:00 PM	Bedding, Backfill and Trench Shoring Systems Task Committee Meeting	Meeting Room 6
12:30 PM – 3:30 PM	Emerging Leaders Program: Pipeline Research Symposium	Grand Ballroom: Salon F
1:00 PM – 2:00 PM	Pipe Bursting Task Committee Meeting	Florida Ballroom: Salon V
1:00 PM – 4:00 PM	Testing for Seismic Evaluation of Pipelines Systems Standards (STEPS) Committee Meeting	Florida Ballroom: Salon III
1:00 PM – 5:00 PM	Utility Risk Management Division (URMD) Executive Committee	Florida Ballroom: Salon III
1:00 PM – 5:00 PM	Workshop 10 – Large Equipment Owners Forum	Meeting Room 5
1:00 PM – 5:00 PM	Workshop 369 – Asset Management Workshop	Meeting Room 4
2:00 PM – 3:00 PM	Inspecting Pipeline Installations (MOP 117 Revision) Task Committee	Meeting Room 1
2:00 PM – 3:00 PM	ASCE 38 Standard Guideline for Investigating and Documenting Existing Utilities Committee Meeting	Grand Ballroom: Salon H
2:00 PM – 4:00 PM	ASCE 75: Standard Guideline for Recording and Exchanging Utility Infrastructure Data Committee Meeting	Meeting Room 4
2:00 PM – 4:00 PM	Trenchless Installation for Pipelines (TIPS) Committee Meeting	Florida Ballroom: Salon IV
2:00 PM – 4:00 PM	Subsurface Utility Engineering and Investigation (SUE & I) Committee	Grand Ballroom: Salon G
2:00 PM – 4:00 PM	Pipeline Location and Installation Technical Committee	Grand Ballroom: Salon I
3:00 PM – 5:00 PM	Steel Penstock Design (MOP 79 Revision) Task Committee	Meeting Room 5
3:00 PM – 5:00 PM	UESI Standards and Publications Council (USPC)	Meeting Room 2
3:30 PM – 4:30 PM	Emerging Leaders Program: Younger Member Engagement Committee Meeting	Grand Ballroom: Salon E
4:00 PM – 5:00 PM	Introduction to Trenchless Task Committee Meeting	Florida Ballroom: Salon IV
4:30 PM – 5:00 PM	Emerging Leaders Program: Younger Member Networking Reception	The Veranda Room
5:30 PM – 7:00 PM	Welcome Reception in Exhibit Hall <i>Sponsored by Mid America Pipe Fabricating & Supply LLC</i>	TCC Exhibit Hall 3rd Floor

Monday, August 11, 2025

7:00 AM – 5:00 PM	Registration	TCC 2nd Floor
8:00 AM – 5:30 PM	UESI Doug Jenkins Student Competition	TCC 304-305
8:00 AM – 9:30 AM	Plenary Breakfast and Keynote – Rodney Kite-Powell <i>Sponsored by Uni-Bell PVC Pipe Association</i>	TCC Plenary 3rd Floor
9:00 AM – 10:30 AM	Pipeline Infrastructure (PINS) Committee Meeting	TCC 302
9:30 AM – 4:00 PM	Exhibits Open	TCC Exhibit Hall 3rd Floor
9:30 AM – 10:30 AM	Networking Break in Exhibit Hall <i>Sponsored by Wade Trim</i>	TCC Exhibit Hall 3rd Floor
9:30 AM – 10:30 AM	Headshot Café <i>Sponsored by Black & Veatch</i>	The Waterview Lounge
10:30 AM – 12:00 PM	A1 – Innovative Pipeline Design and Access Solutions	TCC 124-125
10:30 AM – 12:00 PM	B1 – Innovative Rehabilitation and Design Strategies	TCC 122-123
10:30 AM – 12:00 PM	C1 – Transient Modeling for Pipeline Systems	TCC 120-121
10:30 AM – 12:00 PM	D1 – Pipeline Predictive Models	TCC 118-119
10:30 AM – 12:00 PM	E1 – PCCP Management	TCC 116-117
10:30 AM – 12:00 PM	F1 – And Now For Something Really Different	TCC 114-115
10:30 AM – 12:00 PM	G1 – Construction of Deep Tunnels	TCC 107-109
10:30 AM – 12:00 PM	H1 – Trenchless: HDD, Optimization, and Concrete Pipe Installations	TCC 112
10:30 AM – 12:00 PM	I1 – Pipeline Material Selection and Stress Analysis	TCC 111

Track A, B & C	Track D & E	Track F & G	Track H & I
Planning and Design	Condition Assessment	Construction and Rehab	Multidiscipline

10:30 AM – 12:00 PM	Lateral Rehabilitation and Inspection Task Committee Meeting	TCC 302
12:00 PM – 1:30 PM	Lunch with Exhibitors	TCC Exhibit Hall 3rd Floor
1:30 PM – 2:30 PM	Pathways to Professional Growth: An Introduction to UESI 's Certifications with Civil Engineering Certification (CEC)	TCC 103
1:30 PM – 3:00 PM	A2 – Urban Pipeline Construction Innovations and Design Resiliency	TCC 124-125
1:30 PM – 3:00 PM	B2 – Water Supply and Reuse in South Florida	TCC 122-123
1:30 PM – 3:00 PM	C2 – Hydraulic Engineering for Pipeline Systems	TCC 120-121
1:30 PM – 3:00 PM	D2 – O&M – Sewer and Natural Gas	TCC 118-119
1:30 PM – 3:00 PM	E2 – Asset Management	TCC 116-117
1:30 PM – 3:00 PM	F2 – Atmospheric Emissions with CIPP	TCC 114-115
1:30 PM – 3:00 PM	G2 – CFRP Sanitary Sewer Case Studies	TCC 107-109
1:30 PM – 3:00 PM	H2 – Innovations in SUE	TCC 112
1:30 PM – 3:00 PM	I2 – Leveraging Tools for Leakage Detection	TCC 111
3:00 PM – 4:00 PM	Networking with Sponsors and Poster Presentations <i>Sponsored by STV</i>	TCC Exhibit Hall 3rd Floor
3:00 PM – 4:00 PM	Headshot Café <i>Sponsored by Black & Veatch</i>	The Waterview Lounge
3:30 PM – 4:30 PM	UESI Organizational Member Meeting	TCC 309
4:00 PM – 5:00 PM	Utility Asset Management Division Executive Committee	TCC 308
4:00 PM – 5:30 PM	A3 – Advancements Pipe Liner Design and Rehabilitation	TCC 124-125
4:00 PM – 5:30 PM	B3 – Pressure Pipeline Lining and Rehabilitation	TCC 122-123
4:00 PM – 5:30 PM	C3 – Trenchless Design Challenges	TCC 120-121
4:00 PM – 5:30 PM	D3 – Water Loss and Pipeline Inventory	TCC 118-119
4:00 PM – 5:30 PM	E3 – Seismic Considerations	TCC 116-117
4:00 PM – 5:30 PM	F3 – CFRP Case Studies for Non-Potable Water	TCC 114-115
4:00 PM – 5:30 PM	G3 – Florida Case Studies	TCC 107-109
4:00 PM – 5:30 PM	H3 – Trenchless Pipeline Rehabilitation	TCC 112
4:00 PM – 5:30 PM	I3 – Pipeline Installations and Resiliency	TCC 111

Tuesday, August 12, 2025

7:30 AM – 5:00 PM	Registration	TCC 2nd Floor Lobby
8:00 AM – 11:00 AM	UESI Doug Jenkins Student Competition	TCC 304-305
8:00 AM – 9:00 AM	Breakfast with Exhibitors <i>Sponsored by T2 Utility Engineers</i>	TCC Exhibit Hall 3rd Floor
8:00 AM – 4:30 PM	Exhibits Open	TCC Exhibit Hall 3rd Floor
9:00 AM – 10:30 AM	A4 – Optimizing Horizontal Directional Drilling	TCC 124-125
9:00 AM – 10:30 AM	B4 – Collaborative Solutions for Complex Infrastructure Projects in Florida	TCC 122-123
9:00 AM – 10:30 AM	C4 – Large Diameter HDD Design	TCC 120-121
9:00 AM – 10:30 AM	D4 – AI and Modeling Pipeline Conditions	TCC 118-119
9:00 AM – 10:30 AM	E4 – Metallic Pipe Leak Detection	TCC 116-117
9:00 AM – 10:30 AM	F4 – When Bypassing Impacts Operations	TCC 114-115
9:00 AM – 10:30 AM	G4 – Time is of the Essence- Emergency Replacement	TCC 107-109
9:00 AM – 10:30 AM	H4 – Pipeline Projects in Action: Fast-Tracking, Microtunneling, and Urban Replacements	112
9:00 AM – 10:30 AM	I4 – Workforce Challenges and Solutions Networking Breakfast and Workshop	111
10:30 AM – 11:30 AM	Networking with Exhibitors & Poster Presentations	TCC Plenary 3rd Floor
10:30 AM – 11:30 AM	Headshot Café <i>Sponsored by Black & Veatch</i>	The Waterview Lounge
10:30 AM – 11:30 AM	Pipeline Terminology Committee Meeting	TCC 303
11:30 AM – 1:00 PM	Plenary Awards Luncheon and Keynote – Eleanor Allen, P.E., NAE	TCC Exhibit Hall 3rd Floor
1:15 PM – 1:45 PM	Bechtel Lecture	TCC 101-102
2:00 PM – 3:30 PM	A5 – Seismic and Geohazard Resilience in Pipeline Design	TCC 124-125
2:00 PM – 3:30 PM	B5 – Water Transmission and Distribution Design	TCC 122-123
2:00 PM – 3:30 PM	C5 – Fast Paced and Phased Design Challenges	TCC 120-121
2:00 PM – 3:30 PM	D5 – O&M – Water Systems	TCC 118-119
2:00 PM – 3:30 PM	E5 – PCCP Condition Assessment	TCC 116-117
2:00 PM – 3:30 PM	F5 – Geospatial Tools for Rehabilitation	TCC 114-115
2:00 PM – 3:30 PM	G5 – Living Case Studies	TCC 107-109
2:00 PM – 3:30 PM	H5 – Advancing Pipeline Integrity: Soil, Stress, and Non-Invasive Assessment	TCC 112
2:00 PM – 3:30 PM	I5 – Innovations in Pipeline Design, Inspections and Installation	TCC 111

Track A, B & C	Track D & E	Track F & G	Track H & I
Planning and Design	Condition Assessment	Construction and Rehab	Multidiscipline

3:30 PM – 4:30 PM	Networking with Exhibitors <i>Sponsored by Hazen & Sawyer</i>	TCC Exhibit Hall 3rd Floor
3:30 PM – 4:30 PM	Headshot Café <i>Sponsored by Black & Veatch</i>	The Waterview Lounge
4:30 PM – 7:00 PM	Exhibit Hall Move-Out	TCC Exhibit Hall 3rd Floor
4:30 PM – 5:30 PM	A6 – Resiliency and Accessibility in Large Diameter Pipeline Systems	TCC 124-125
4:30 PM – 5:30 PM	B6 – Sustainable Development and Long-Term Protection of Critical Water Infrastructure	TCC 122-123
4:30 PM – 5:30 PM	C6 – Surge Pressure and Air Release Design	TCC 120-121
4:30 PM – 5:30 PM	D6 – Case Studies	TCC 118-119
4:30 PM – 5:30 PM	E6 – Surveying Panel Session	TCC 116-117
4:30 PM – 5:30 PM	F6 – Tunneling Collaborative Risk Management	TCC 114-115
4:30 PM – 5:30 PM	G6 – Metallic Pipe Linings	TCC 107-109
4:30 PM – 5:30 PM	H6 – Ethics in Engineering Panel Session	TCC 112
4:30 PM – 5:30 PM	I6 – Utility Depth Discrepancies, and the Future of Utility Engineering	TCC 111
6:30 PM – 9:30 PM	Off-Site Reception <i>Sponsored by Structural Technologies</i>	Yacht StarShip

Wednesday, August 13, 2025

7:00 AM – 8:00 AM	Breakfast	TCC Plenary 3rd Floor
7:30 AM – 9:30 AM	Registration	TCC 2nd Floor Lobby
8:00 AM – 9:30 AM	A7 – Tunneling and Large Diameter Pipeline Installation	TCC 124-125
8:00 AM – 9:30 AM	B7 – Complexities in Route Analysis	TCC 122-123
8:00 AM – 9:30 AM	C7 – Pipeline Planning, Design, and Cost Estimating Insights	TCC 120-121
8:00 AM – 9:30 AM	D7 – DIP Assessment	TCC 118-119
8:00 AM – 9:30 AM	E7 – New Technology for PCCP Inspections	TCC 116-117
8:00 AM – 9:30 AM	F7 – Rehabilitating Water and Sewer Mains	TCC 114-115
8:00 AM – 9:30 AM	G7 – Large Diameter Pipeline Rehab and Risk Mitigation	TCC 107-109
8:00 AM – 9:30 AM	H7 – Smart Pipeline Management: Data, AI, and Optimization Strategies	TCC 112
8:00 AM – 9:30 AM	I7 – AI and Asset Management	TCC 111
9:30 AM – 10:00 AM	Networking Break <i>Sponsored by Dallas 1 Construction and Development</i>	TCC Plenary 3rd Floor
10:00 AM – 11:30 AM	A8 – Innovative Lift Station and Sewer Design Projects	TCC 124-125
10:00 AM – 11:30 AM	B8 – Navigating Urban Challenges	TCC 122-123
10:00 AM – 11:30 AM	C8 – Advancements in Pipeline Design for Ground Deformation and Seismic Resilience	TCC 120-121
10:00 AM – 11:30 AM	D8 – AI in Water and Rehabilitation	TCC 118-119
10:00 AM – 11:30 AM	E8 – Data-Driven Water Pipeline Management	TCC 116-117
10:00 AM – 11:30 AM	F8 – Technical Assessments of Rehabilitated Pipe	TCC 114-115
10:00 AM – 11:30 AM	G8 – Sewer Pipeline Rehabilitation	TCC 107-109
10:00 AM – 11:30 AM	H8 – Monitoring and Protection: Surveys, Sensors, and Spray Coatings	TCC 112
10:00 AM – 11:30 AM	I8 – Asset Management using GIS and CCTV	TCC 111
1:00 PM – 4:30 PM	Technical Tour – David L. Tippin Water Treatment Facility & Hillsborough River Dam	Off-Site Tour
1:00 PM – 7:00 PM	UESI Golf Tournament	Rogers Park Golf Course



Pipelines 2025 | Technical Sessions

Track A TCC 124-125	Track B TCC 122-123	Track C TCC 120-121	Track D TCC 118-119	Track E TCC 116-117	Track F TCC 114-115	Track G TCC 107-109	Track H TCC 112	Track I TCC 111
Planning and Design 1	Planning and Design 2	Planning and Design 3	Condition Assessment 1	Condition Assessment 2	Construction and Rehab 1	Construction and Rehab 2	Multidiscipline 1	Multidiscipline 2
Track Chair: Alan Swartz	Track Chair: Jennifer Baldwin	Track Chair: Hunter Hanson	Track Chair: Josh Kercho	Track Chair: Karem Carpio	Track Chair: Shelly Hattan	Track Chair: Chris Hoeckler	Track Chair: Aric Farnsworth	Track Chair: Mark Draper
Monday, August 11								
10:30 am – 12:00 pm Technical Session 1								
A1: Innovative Pipeline Design and Access Solutions Moderator: Adam Braun	B1: Innovative Rehabilitation and Design Strategies Moderator: Cecilia Dean	C1: Transient Modeling for Pipeline Systems Moderator: Nathan Cobler	D1: Pipeline Predictive Models Moderator: Matt Gallagher	E1: PCCP Management Moderator: Evan Biedenbach	F1: And Now For Something Really Different Moderator: Samruddhi (Sam) Jagtap	G1: Construction of Deep Tunnels Moderator: Jaime Ordóñez	H1: Trenchless: HDD, Optimization, and Concrete Pipe Installations Moderator: Alan Garri	I1: Pipeline Material Selection and Stress Analysis Moderator: Megan Campbell
144: Is Your Pipe Design Too Flexible? Comparing Flexible Pipe Deflection Design Assumptions to Actual Results, Ben Stephens, Emily Acosta 83: Overcoming by Going Under: Back-to-Back Inverted Siphons Make Way for a New River in Fort Worth, Josh Kercho, Liam Conlan, Carl DeZee 299: Design of Roll-Out and Lift-Out Sections for Improved Pipeline Access, Chris Sundberg, Matthew Gallo, Madelyn Rubin	338: Fast-paced Land Acquisition and Pipeline Design, Matthew O'Connor, Andrew Starling 326: A Strategic Decision-Making Framework for CIPP Liner Evaluation in OC SAN Sewer Rehabilitation, Nita Kazi, Ali Alavi, Patrick Stahl, Victoria Pika, Pegah Bahavon, Alexis Holmdal 51: SimaPro-Based Comparative Ecological Impact Assessment of CIPP Renewal and Open-Trench Pipeline Replacement, Gayatri Thakre, Easha Karkhanis, Vinayak Kaushal, Mohammad Najafi	280: Combined Hydraulic and Transient Models for the Toledo 78-inch Water Transmission Pipeline, Hunter Hanson 71: Transient Considerations for Design of New or Retrofit Wastewater Pump Stations on New and Existing Force Mains, Katie Davis, Gina Cashan 213: Working With Combined Sewers -- Geometric and Hydraulic Elements of Cleveland Egg-Shaped Sewers, Kevin Enfinger	333: Assessing Pipeline Failure Hotspots and Vulnerabilities: A Spatial and Probabilistic Risk Analysis, Yasir Mahmood, Ying Huang 344: A Machine Learning-Based Interpretable Glass-Box Model for Pipeline Failure Mode Prediction Considering Quantitative Coupling Factors, Jiannan Ding, Junyi Duan, Chengcheng Tao, Ying Huang 44: A Comparison of Finite Element Analysis Results with ASCE Manual of Practice 145: Design of Close-Fit Liners for Rehab of Gravity Pipes, Matthew Richie, Andy Sherwin, Jesse Beaver	283: Pressure Points: At What Pressure Should Pipe be Evaluated?, Jane Burnett, Jared Svagera, Russ Deason, Olivia Olsztyń-Budry, Nicholas Winkelmann, Jerry Sneed 211: Numerous Paths, One Destination: Comparisons of North American Condition Assessment Programs, Scott Jouch, John Norton, Glenn Edgeman, Graham Bell, Roberto Mascarenhas 267: Inspecting and Repairing Large Diameter PCCP in a Single Outage: Experience from Silicon Valley, Peter Nardini, Kristen Peterson, Joel Jenkins, Ryan Littell, Christian Ruiz	27: Effectively Purging a Decommissioned Natural Gas Distribution Network, Guohua Li, Luke Prohaska, Randy Dinata, Michelle Mayer, Michael Archard, Hamid Badius 252: Grout Filling and Pipeline Abandonment: A Comprehensive Approach to Nearly 50 Miles of Gas Pipeline at Southern Company/Nicor Gas Dubuque Line, Mark Salvatore 92: Enhancing Pipeline Integrity Through Grouted Sleeve Repairs: A Focus on Axial Strain Capacity, Mohammad Hosseini, Hossein Daneshvar	264: Between Rock and Hard Place!!! A Creative Underground Solution To Very Challenging Surface Conditions, Ram Issa, Rishi Bhattarai 166: The Occoquan River Crossing was a BLAST, Tim Bullford 210: Three Mains, Two Reservoirs, One Goal: Vancouver's Water Mains are Ready to Shake Things Up, Reid Mela, Marc Cheneval, Somnath Zhao, Mark Waterworth, Angus Milne	96: Highlights of the High Life—Miami Beach's Horizontal Directional Drill Case Study, Shari Ramirez, Adrian Reid, Louis Gaudin 239: Trenchless Installation of Concrete Pressure Pipes for Water and Wastewater Applications, Brad Ryan, Yan Lan, Tyler Corcoran 113: Evaluation of Airborne Contaminants and Potential Health Hazards in Cured-in-Place Pipe Rehabilitation Projects, Salar Bavilnezhad, Mohammad Najafi, Vinayak Kaushal, William Elledge, Burak Kaymak, Paria Hamidzadeh	81: Assessing Stress Intensity Factors for Large-Diameter Buried Water Pipes Using Finite Element Methods, Abu Hena Muntakim, Kenny Farrow, Chris Rossiter, Bobby Viradi 206: Calculations for Above Ground Installations of High Density Polyethylene, Alan Ambler, Dan Landry 220: How Pipeline Material Selection Can Mitigate Challenges of AWWA 2023 SOTWI Survey, Roy Mundy
1:30 pm – 3:00 pm Technical Session 2								
A2: Urban Pipeline Construction Innovations and Design Resiliency Moderator: Matthew Durham	B2: Water Supply and Reuse in South Florida Moderator: Omar Rodriguez	C2: Hydraulic Engineering for Pipeline Systems Moderator: Sorena Moore	D2: O&M—Sewer and Natural Gas Moderator: Shelbi Johnson	E2: Asset Management Moderator: Julie Hansen Reviewer: Robin Kumar	F2: Atmospheric Emissions with CIPP Moderator: William Fisher Reviewer: Daniel Applegate	G2: CFRP Sanitary Sewer Case Studies Moderator: Peter Brask	H2: Innovations in SUE Moderator: David Moore	I2: Leveraging Tools for Leakage Detection Moderator: Diego Rivera
309: Urban Pipeline Construction at Night—A Willamette Water Supply Case Study, Scott Gibson 201: Under High Pressure—Relining a 90 Year-Old Pipeline, Taylor Lithgow, Abdelmoniem Abdelsalam 237: Hydraulic Pickleball: Winning Stillwater's Resiliency Game by Sending Water Back and Forth, Erika Cooper, Louis Japacala, Chris Humes	70: Behind the Scenes: A Highlight Reel of Specialty Engineering Services for Hillsborough County's Newest 42/48-inch Pipeline, Brian Glynn, Thomas Cross, Jesse Ellis, Kendall Ryan 149: Dual-Use Pipeline Interconnect to Eliminate WRF River Discharges, Mike McGee, Brian Hickey, Talya Bickie 16: Two Cities, One Vision: A Successful Beneficial Reuse Project with a Record-Setting Horizontal Directional Drill, Thomas Noga, Tusi Shukla, Jeffrey Pearson, Juan Barreneche	169: Moving Water Over Mountains, Aric Farnsworth 261: The Flow Trend Is Your Friend Until It Ends: What Happens When You Tie Two Major Raw Water Supply Systems Together?, Ram Issa, Xu Shi 350: Possible Effects of New Accessory Dwelling Units in Water Distribution Systems, Karem Carpio	7: Condition Assessment Program for 46-Year-Old Sanitary Force mains in the Arctic Region of Canada, Olugbenga Ibikunle 215: From Inspection to Action: Seven Years of North Texas Municipal Water District's Multi-Sensor Inspection Outcomes, Kristin Feng, Scott Hoelzle, Stephen Johnson, Amin Tehrani 259: Assessing the Impact of Network Topology on Seismic Resilience in Gas Pipeline Networks, Sumaya Sharveen, Sandesh Adhikari, Abhijit Roy, Mahesh Shahandashti	226: Advanced Techniques for Spatial Data Collection and Analysis, Mike Jacobson, Edward Adams 79: Managing Pipelines Below Major Freeways and Other Critical Infrastructure, Britt Klein 11: Holy Toledo! Part 2—Asset Management of a WWII Era 78" Raw Water Steel Pipeline, Robert Card	105: Assessment of Atmospheric Chemical Emissions Emitted During Cured-in-Place Pipe Method for Sewer Pipe Rehabilitation, Rasoul Abbas 73: A Comprehensive Analysis of Styrene Emissions in Cured-in-Place Pipe Installations Using Polyester (Styrene-Based) Resin Liners Across Multiple Jobsites, Parisa Beigvand, Burak Kaymak, Mohammad Najafi, William Elledge, Vinayak Kaushal, Ayoub Mohammadi 76: Evolving Design Considerations for UV-Light Cured and Reinforced CIPP Lining Systems, Jeff Maier	33: Hampton Roads Sanitary District York River Treatment Plant Pipeline Rehabilitation Project, Ann Copeland, Anna Pridmore, Aikana Bolton 243: Thinking of CFRP for Repairing More Than Just Pipes for Wastewater Applications – A Case Study, Piyush Garg, Brandon Keezer, Rasko Ojdrovic, Cecilia Dean, Mike Figlio 349: Structural Rehabilitation of a Critical 54-inch Force Main in Downtown Tampa, Timothy Palmer, Tom Wilson, Jack Ferras, Charlie Lynch	327: Suitability of Ground Penetrating Radar in Texas: Best Practices and Lessons Learned, Harshit Shukla, Cesar Quiroga, Luke Cooper, Gary Young 174: Enhancing SUE Investigations and Data Quality with 360-Degree Photogrammetry, Ryan Mikulsky, Michael Woods 214: Virtual Design and Construction for Pipelines, Firat Sever, Chanchal Bhakat	303: Leveraging the Design-Build Approach for Enhanced Efficiency and Cost Savings for Pipeline Rehabilitation, Emily Cernic, Anna Pridmore 29: Unearthing Success: Managing Utility Conflicts on Ontario Line, Taylor Bottorff 57: Socio-Economic Analysis for Open-Trench Excavation and Trenchless Cured-in-Place Pipe Methods for Wastewater Applications, Gayatri Thakre, Vinayak Kaushal, Mohammad Najafi

Pipelines 2025 | Technical Sessions

Track A TCC 124-125	Track B TCC 122-123	Track C TCC 120-121	Track D TCC 118-119	Track E TCC 116-117	Track F TCC 114-115	Track G TCC 107-109	Track H TCC 112	Track I TCC 111
Planning and Design 1	Planning and Design 2	Planning and Design 3	Condition Assessment 1	Condition Assessment 2	Construction and Rehab 1	Construction and Rehab 2	Multidiscipline 1	Multidiscipline 2
Monday, August 11 <i>(continued)</i>								
4:00 pm – 5:30 pm Technical Session 3								
A3: Advancements Pipe Liner Design and Rehabilitation Moderator: George Farah	B3: Pressure Pipeline Lining and Rehabilitation Moderator: Colleen Howard	C3: Trenchless Design Challenges Moderator: Ben Stephens	D3: Water Loss and Pipeline Inventory Moderator: Ron Mick	E3: Seismic Considerations Moderator: William Brick	F3: CFRP Case Studies for Non-Potable Water Moderator: Christine Ellenberger	G3: Florida Case Studies Moderator: Charles Marsh	H3: Trenchless Pipeline Rehabilitation Moderator: Natalie Cronk	I3: Pipeline Installations and Resiliency Moderator: Victor Nataly
256: Evaluating the Effect of Host Pipe’s Integrity on Determination of Liner Thickness in Spray-in-Place Pipe (SIPP) Application for Underground Pipes, <i>Zaid Momani, Kawalpreet Kaur, Sanaz Ghalambor, Mohammad Najafi</i>	225: Overcoming Challenges of Pipeline Rehabilitation in the Grand Canyon: Bright Angel Pipeline Sliplining, <i>Keith Bushdreeker, Nicholas Humphrey, Abigail Tanner</i>	43: Crossing an Iconic Austin Landmark– Lady Bird Lake, A Comprehensive Study on River Crossing Alternatives, <i>Jing Ling, Mueen Chowdhury, Francisco Guerrero</i>	268: Improving Asset Inventory Data Quality for Water and Wastewater Pipe: State-Of-The-Art Review, <i>Ram Krishna Mazumder, Swarnjit Roy, Khalid Kaddoura, Dan Koo</i>	32: Thrust Restraint Analysis of PCCP Using Non-linear Finite Element Analysis, a Comparison Between LCP vs ECP, <i>Masood Hajali, Akram Elaz, Ashan McNealy</i>	179: Trenchless Pipeline Structural Renewal in the South of France, <i>Enk Virmond, Rasko Ojdrovic, Brent Boss, Adrian Muelo, Atilana Bolton</i>	82: The LaSalle Street Drainage Improvements Design Build Case Study, <i>Omar Rodriguez, Fernando Navarrete</i>	142: Retrospective of 15 years for Spray Applied Geopolymer Mortar Linings (SAPL), <i>Joe Royer</i>	241: Open-Cut Installation Renovations, <i>Anister Howard</i>
135: Transitioning to ASCE MOP 145 for Close-Fit Liner Design of Circular Gravity Pipes, <i>David Kazman, Chris Macey, Norman Campbell, Mohammadamin Tara</i>	37: How the Design and Rehabilitation of Twenty Thousand Feet of Severely Distressed PCCP was Completed in Just 12 Months, <i>Michael McReynolds, Seth Urban, Nancy Baker, Ezequiel Montanez, Cristian Ovalle</i>	287: Building Success Together: Collaborative Approaches to Horizontal Directional Drilling with Steel Pipe, <i>Matthew Durham, David Wehner</i>	308: Performance Evaluation of Small Diameter Cast Iron Mains and Their Role in Water Loss, <i>Shaoqing Ge</i>	238: Numerical Study of Buried Pipelines Backfilled of Controlled Low Strength Material Crossing Strike-Slip Fault, <i>Che-Yu Chang, Hsuan-chih Yang, Wenkuang Chang</i>	156: Keeping it Together– Emergency Response Collaboration in the face of Failing Infrastructure, <i>Brandon Reider</i>	148: Buying Pipe and Fittings, How Hard Can It Be?, <i>Jessica Hernandez</i>	66: Under Pressure: Myriad Challenges in Replacing a Critical Water Transmission Main, <i>Matt Gallagher, Chris Stewart</i>	269: Putting Resiliency to the Test – How the SAWS ASR Pipeline has Stood the Test of Time, <i>Jonathan Vorheis, Vicente Garza</i>
217: Planning for Not-So-Trenchless Large Diameter Trenchless Rehab: Lessons Learned & Case Studies, <i>Marya Jetten</i>	229: Applicability of Hole-Spanning Design Equations and FEM Modeling for Carbon Steel Pipe Lined with Spray Applied Pipe Lining, <i>Kawalpreet Kaur, Ehsan Rajaei, Zaid Momani, Sanaz Ghalambor, Mohammad Najafi</i>	353: Promoting Sustainability in Smart Cities Through Trenchless Technology: A Path to Efficient Urban Infrastructure Management, <i>Shima Zare, Mohammad Najafi, Parisa Beigvand, Arash Azizi, Rasoul Abbas, Vinayak Kaushal</i>	232: Estimation of Leak Phenomena in Service Steel Pipeline System by Using Pressure Wave Propagation Field in Non-Steady Water Flow Conditions, <i>Tetsuya Suzuki, Taiki Hagiwara, Asada Yohei</i>	235: Detecting Seismic Hydrodynamic Pressure in an In-Service Pipeline System for Agricultural Irrigation Through On-Site Monitoring, <i>Taiki Hagiwara, Takashi Ohkubo, Koani Hashino</i>	141: Making It Over the Hill: Challenges Faced During the FRP Rehabilitation of Steel Stormwater Pump Station Discharge Pipelines, <i>Raza Fereidoonfar, Ben Stephens, Timothy Peten</i>	345: Replacing a 70-year-old Force Main in the Heart of Downtown Tampa–A Design-Build Success Story, <i>Timothy Palmer, Brad Baird, Charlie Lynch, Jack Ferras, Tam Wilson, Eric Weiss</i>	337: Innovative Utility Relocation Strategies: LA-39 Realignment and Mississippi River Sediment Diversion Project, <i>Ali Alawi, Brad Clark</i>	341: Traversing Rivers and Valleys with the Right Pipe, <i>Derek Nelson, Firas Sever</i>
Tuesday, August 12								
9:00 am – 10:30 am Technical Session 4								
A4: Optimizing Horizontal Directional Drilling Moderator: Scott Gibson	B4: Collaborative Solutions for Complex Infrastructure Projects in Florida Moderator: Shaoqing Ge	C4: Large Diameter HDD Design Moderator: Francisco Guerrero	D4: AI and Modeling Pipeline Conditions Moderator: Cindy Patton	E4: Metallic Pipe Leak Detection Moderator: Ashan McNealy Reviewer: Logan Fesenmair Black	F4: When Bypassing Impacts Operations	G4: Time is of the Essence- Emergency Replacement Moderator: Natalie Parks	H4: Pipeline Projects in Action: Fast-Tracking, Microtunneling, and Urban Replacements Moderator: Ryan Pearson	I4: Workforce Challenges and Solutions Networking Breakfast and Workshop Moderator: Anna Pridmore
191: Efficient Techniques to Stay On-Time and Below Budget: A Successful 3,000 LF Intercoastal HDD Water Main Installation, <i>Jordan Walker</i>	155: Bridging the Bay: Using Collaborative Communication for Project Success, <i>Adriel Shrikissaan, Kimani Thomas</i>	158: Design of Large Diameter HDPE Wastewater Force Main via Horizontal Directional Drilling Under the Colorado River, <i>Nick Lowe, Kane Wei, John Buser</i>	26: Visualizing the Z-Value Uncertainty in 3D Utility Models, <i>James Anspach, Roy Shurgill, John Campbell</i>	134: The Relevance of Acoustic Pipe Condition Assessment to the Structural Integrity of Water Mains, <i>Reza Masleini, Valentino Burtso</i>	165: Felix C. Davis WWTP Emergency Rehabilitations, <i>James Reigart, Chad Abrams</i>	65: Emergency CFRP Repair of the City of Sacramento 120-Inch RCP Pioneer Outfall: Railroads, Levees, and Vacuum Conditions, <i>Mark Pappa, Timothy Moresco, James Pollock, Ubay Sant</i>	297: Time is of the Essence – How St. Johns County Fast-tracked 15 Miles of Pipeline Improvements, <i>Christine Ellenberger, Gordon Smith, Josh Sowards</i>	364: Workforce Challenges and Solutions Networking Breakfast and Workshop, <i>Anna Pridmore, Osai Robinson, Cecilia Dean</i>
263: Horizontal Directional Drilling Feasibility Analysis and Case Studies, <i>Chantel Barua</i>	272: Integrating New Infrastructure Improvements with Existing Utilities, <i>Ana Julia Delarue Salome, Jessica Hernandez</i>	254: Ductile Iron Pipe Horizontal Directional Drilling Pre-Design, Design, and Construction, <i>Peter Ammans, John Simpson</i>	274: Utilizing Artificial Intelligence to Support the City of Miami Beach SSES & Biscayne Bay Water Quality Improvement Program, <i>Samer Alkhatib, Patricia Rendon</i>	233: Burst Localization in Urban Water Supply Networks Using Acoustic Time Reversal Technique, <i>Muhammad Wagar, Mohamed Houcem Eddine Ben Arab, Moez Louadi, Mohamed S. Ghidoui</i>	286: Don’t Get Swamped– Keys to Bypass Pumping Success, <i>Grant Mysterly, Brandon Lawhern, Chris Krpan</i>	127: Threading the Needle: Building Dual 42” Mains in Becks Run Road to Keep Pittsburgh’s Water On, <i>Nick Lewis</i>	298: Microtunneling Under I-75 to Expand Sewer System Capacity in Venice, Florida, <i>Kim Hansen, Drew Coleman</i>	
102: Value of Geological Information and Drilling Data for Annular Pressure Analysis in Horizontal Directional Drilling, <i>Inshik Park, Alireza Bayat</i>	293: Unforeseen Challenges in a Seemingly Simple Large Diameter Water Line Project, <i>Olena Lyrym</i>	307: Large Diameter High Density Polyethylene Pipe Design Considerations and Lessons Learned, <i>Catrina Yantack, Kennor Bursow, Paul Longo</i>	227: Condition Monitoring for Sewer Networks: An Ensemble Machine Learning Approach, <i>Mahnaz Rouhi, Mohammad Najafi, Vinayak Kaushal</i>	289: Lessons Learned From 30&20-inch CIP Leak Detection, <i>Jacqueline Corey</i>	129: Creek Considerations: Large Diameter Sewer Replacement Considerations at Lisbon Creek, <i>Bryanna Batchelor</i>	89: A New Design Method for Anchor Blocks Used With HDPE Pipelines, <i>Harry Stewart</i>	160: Urban Utility Replacements, Art, Science or Both?, <i>George Farah, Savanna Moore</i>	

Pipelines 2025 | Technical Sessions

Track A TCC 124-125	Track B TCC 122-123	Track C TCC 120-121	Track D TCC 118-119	Track E TCC 116-117	Track F TCC 114-115	Track G TCC 107-109	Track H TCC 112	Track I TCC 111
Planning and Design 1	Planning and Design 2	Planning and Design 3	Condition Assessment 1	Condition Assessment 2	Construction and Rehab 1	Construction and Rehab 2	Multidiscipline 1	Multidiscipline 2
Tuesday, August 12 <i>(continued)</i>								
2:00 pm – 3:30 pm Technical Session 5								
A5: Seismic and Geohazard Resilience in Pipeline Design Moderator: Susanne Lockhart	B5: Water Transmission and Distribution Design Moderator: Nancy Maschke	C5: Fast Paced and Phased Design Challenges Moderator: Scott Phillips	D5: O&M–Water Systems Moderator: Kristen Peterson	E5: PCCP Condition Assessment Moderator: Mike Jacobson	F5: Geospatial Tools for Rehabilitation Moderator: Jennifer Tatum	G5: Living Case Studies Moderator: Maria Contreras	H5: Advancing Pipeline Integrity: Soil, Stress, and Non-Invasive Assessment Moderator: Joel Koenig	I5: Innovations in Pipeline Design, Inspections and Installation Moderator: Samantha O'Farrell
278: Defining Pipeline Serviceability from a Seismic Performance Assessment Lens, <i>Jessica Ramos, Brad Wham</i> 334: Axial Resistance in Shallow Buried and Deep Buried Pipelines Subjected to Ground Deformation, <i>Sri Rajah</i> 245: How to Design Geohazard Resistant Steel Pipe in Critical Fault Crossing Areas, <i>Polynikis Vazouras, Brent Kail, Richard Mielke, Spyros Karanamos</i>	168: Construction Sequencing and Phase Planning for Large-Diameter Urban Waterlines, <i>Aric Farnsworth, Ryan Pearson</i> 161: Taking a "SIP" – Implementing JEA's Southside Integrated Piping System in Jacksonville, Florida, <i>Christine Ellenberger, Larry Gunn, Elizabeth DiMeo</i> 291: Design of a Water Distribution System in Japan Using US Standards and Japanese Regulations, <i>Jonathan Kunay, Clay Tappan</i>	203: It's Just a Phase – Coordinating Multiple Separate Ongoing Developments To Meet City Regionalization Desires, <i>David Olf</i> 277: The Art of Doing Twice the Work in Half the Time: A Programmatic Approach to Accelerating Population Growth Demands, <i>Mariya Jettan, Matthew Bennett</i> 128: A Twist on Collaborative Delivery – Construction Manager At Risk and Progressive Design, <i>Ron Mick, Toby Elin, Wayne Lee, Tam Pruitt, Alan Davis</i>	45: Striking a Balance in the North: How Edmonton Gets the Most from Its Water Transmission Main Condition Assessment Program, <i>Justin Hehner, Andrew (AJ) Rees</i> 234: UAV Technology: From In the Clouds to Below the Surface, <i>Chandler Carpenter, Stephanie Segler</i> 355: A Review of the Challenges to Large Diameter Water Pipeline Maintenance Inspections, <i>Jim Geisbush, Madhuri Arjun</i>	314: Risk of Failure of PCCP With Scattered Wire Breaks, <i>Mehdi Zarghamee</i> 18: PCCP Condition Assessment – How Much Data is Too Much Data?, <i>Piyush Garg, Raska Ojdovic</i> 34: Using Multifrequency Near Field Testing to Assess PCCP Mains with Multiple Pipe Classes, <i>Ad Shatat, Martin Korz</i>	246: The City of Tampa's Westshore Water Main Rehabilitation 3.2 Mile Pipe Bursting Project, <i>Alan Ambler, Ray McKenzie</i> 5: Using Inertial Navigation Technology to Obtain Critical Pipeline Data, <i>Darryl Reid, Otto Ballintijn</i> 140: Wastewater Lift Stations Concrete Condition Assessment Utilizing LIDAR Measurements and Digital 3-D Images, <i>Maziar Mahdavi, Brad Watson, Alan Silva, Amin Tehrani, Scott Hoeltzle</i>	170: Hillsborough County's Commitment to I/I Reduction – Pre/Post Results of a Collection System Rehabilitation Program, <i>Zach Smierciak, John Appenzeller</i> 275: From Corrosion to Resilience: Innovative Pipe Rehabilitation Solution Boosts Reliability for Silicon Valley Clean Water, <i>Anir Bhagwat, Xiangquan Li, Travis Stevens, Lance Seccrest</i> 200: Evaluation of Polymeric Spray-In-Place Pipe (SIPP) Liners Under Elevated Temperature Conditions for Nuclear Industry Applications, <i>Somaz Ghahambar, Diego Calderon, Kawalpreet Kaur, Brandon Caldwell, Mohammad Nojafi</i>	240: Soil Migration and Buried Pipe, <i>Amster Howard, Jeffrey Boscher</i> 281: Gross Wrapping Stress of Prestressing Wire and its Effect on Mechanical Behavior of PCCP, <i>David Andres, Idair Espinosa, Kram Efaz, Masood Hajali, Alan Bait, Robert King, Adam Koebel, Ashan McNealy</i> 300: Pilot Project and Validation of Non-Invasive Pipeline Assessment for Localized Wall Loss Detection, <i>Cameron White, Wendy Andaya</i>	285: Innovative Methods for Welding, Inspections, and Quality Control in Large-Diameter Pipeline Projects, <i>Kyle Anderson</i> 346: Integrating Water and Sanitary Infrastructure in Major Bridge Replacement: King Avenue Crossing, Warren County, Ohio, <i>Ali Alavi, Brad Clark</i> 185: Fort Myers Wellfield Expansion Program – Race Against Time to Install Miles of Raw Water Pipelines, <i>Sergio Battadano, Mike McGee, Tyler Wainand</i>
4:30 pm – 5:30 pm Technical Session 6								
A6: Resiliency and Accessibility in Large Diameter Pipeline Systems Moderator: Nicholas Kallmyer	B6: Sustainable Development and Long-Term Protection of Critical Water Infrastructure Moderator: Amin Tehrani	C6: Surge Pressure and Air Release Design Moderator: Stephen Boros	D6: Case Studies Moderator: Kara Britt	E6: Surveying Panel Session Moderator: Allan Ng	F6: Tunneling Collaborative Risk Management Moderator: Dan Atambo	G6: Metallic Pipe Linings Moderator: Jeffrey Shoaf	H6: Ethics in Engineering Panel Session Moderator: Anna Pridmore	I6: Utility Depth Discrepancies, and the Future of Utility Engineering Moderator: Tania Gill
188: Enhancing Resiliency and Increasing Redundancy for a Regional Water Authority: Adding Isolation Valves on Large Diameter Transmission Main, <i>Jovan Reynolds, Corey Brecht, Karilyn Paris, Steve Roberts, Jason Matteo</i> 52: Seismic Performance Evaluation of Multi-ply Metal Bellows Expansion Joints, <i>Jinsup Kim</i>	360: Mountain Home Air Force Base Water Resilience Project: Pump Station/Pipeline Design with Tight Schedule, <i>Michael Georgakos</i> 212: So, You Have Critical Pipelines. How Do You Protect/Perverse Rights to Them Over Time, and Plan for Uncertain Futures?, <i>Robert Freeman</i>	67: Estimation of Linepack Pressure Rise Due to Surge Within a Liquid Transmission Pipeline, <i>Thomas Hill</i> 157: Scour Velocities for Optimal Force Main Design: Rethinking the Need for Automatic Air Release Valves, <i>Michael Demko, Shen Zhou</i>	296: Condition Assessment and Rehabilitation Options for Peters Pipeline: A Case Study of Large Diameter Raw Water Main, <i>Ali Alavi, Darrel Evensen, Kent Norman, Matthew Petersen</i> 279: City of Novi: A Story of Asset Management Best Practices, <i>Mahina Sharma, Ben Gray, Scott Roselle, Samantha Vermillion, Evan Biedenbach</i>	371: Digital Twin Mobile Mapping with Integrating LiDAR and GPR, <i>Allan Ng, Matt Okubo</i>	86: Construction Phase Collaborative Risk Management of Soft Ground Tunnels for the Integrated Pipeline Project in Texas, <i>Charles Cameron, Shelly Hutton, Coy Veach, Ed Weaver</i> 325: Leveraging Collaborative Delivery and Innovation for Record Breaking HDD Saving \$10M, <i>Paul Longo</i>	192: Autogenous Healing of Cement-Mortar Linings, <i>John Bambei, Dennis Dechant</i> 22: The Shawshank Rehabilitation, <i>Anthony Aderholdt, Mohamed Gornal, John O'Leary, Ravi Kanitkar</i>	363: Ethics in Engineering, <i>Anna Pridmore</i>	262: Evaluating Discrepancies in Utility Depth Measurements Using Electromagnetic Locators: A Statistical Analysis of Contributing Factors in the DFW Area, <i>Joseph Murphy, Xi Xie</i> 25: Back to the Future in the Utility Engineering Space, <i>Tyler Bottorff</i>

Pipelines 2025 | Technical Sessions

Track A TCC 124-125	Track B TCC 122-123	Track C TCC 120-121	Track D TCC 118-119	Track E TCC 116-117	Track F TCC 114-115	Track G TCC 107-109	Track H TCC 112	Track I TCC 111
Planning and Design 1	Planning and Design 2	Planning and Design 3	Condition Assessment 1	Condition Assessment 2	Construction and Rehab 1	Construction and Rehab 2	Multidiscipline 1	Multidiscipline 2
Wednesday, August 13								
8:00 am – 9:30 am Technical Session 7								
A7: Tunneling and Large Diameter Pipeline Installation Moderator: Eilhard Meneses	B7: Complexities in Route Analysis Moderator: Harshit Shukla	C7: Pipeline Planning, Design, and Cost Estimating Insights Moderator: Adam Martin	D7: DIP Assessment Moderator: Marya Jettan	E7: New Technology for PCCP Inspections Moderator: Kenneth Kerr	F7: Rehabilitating Water and Sewer Mains Moderator: Himan Hojat Jalali	G7: Large Diameter Pipeline Rehab and Risk Mitigation Moderator: Jonathan Shirk	H7: Smart Pipeline Management: Data, AI, and Optimization Strategies Moderator: Mike Larsen	I7: AI and Asset Management Moderator: Alexandra Isabel Gonzalez Vasquez
324: Assessment of Bearing Capacities and Failure Mechanisms of Socket Joints in Large Diameter PCCP Pipe Jacking: Insights from Zhengzhou, China, Zhou Hou, Huang Sheng, Baosang Ma, Samuel Arinatham 260: Talks, Tracks, and Tunneling: How CM/GC Delivered 20 MGD of Wastewater Underneath Colorado's Railways, Travis Stevens 62: An Integrated Approach for Locating Buried Bedrock Valleys for Tunnelling Projects, Robert Ofon, Liscio Nicolas, Rene Gomez, Carolyn Boone, Ben McClement	330: Sewer Shenanigans: A Deep Dive Into Wichita's 78-inch Interceptor Relocation, Michael Salinas, Diego Medrano 221: The Importance of Geomorphology Analysis in Minimizing Pipeline Failure Risks Along Creek Embankments, Amir Tabesh, Rodrigo Vizcaino 110: Navigating the Unknown – Water and Sewer Department Redundant Force Main Route Study, Luis Torres, Shari Ramirez, Starr Alfonso	175: Into the Matrix: Sewer Trunk Main Study and Multi-Alignment Decision Visualization, McKenna Goddard, Dean Vila 95: Evaluating Buckling in Fusible PVC for Trenchless Installation, Jon Robison, Urso Campos, Tom Marti 282: From Concept to Completion: Improving Cost Estimates for Pipeline Projects, Samantha O'Farrell, Roger Beiseler	318: Inspecting Small Pipes with Big Consequence – Case Studies on Condition Assessment of DIP and BWP at Freeway Crossings, Murat Engindeniz, Troy Bontrager 202: Leaching Damage Detection for Ductile Iron Pipes Using Ultrasonic Wave Pitch-Catch, Donglin Du, Samantha Rubin, Pranav Karve, Sankaran Mahadevan 35: Increasing the Life of Your Ductile Iron Pipe with 'Hot Spot' Protection, Janine Alexander	17: Pro-Active Knowledge-Based PCCP Pipe Asset Management Program, Scott Popovic, Paul Gaykardo, Kevin Weeks 320: Pickleballs and Patience: Thinking Outside the Box to Inspect a Critical 108-inch Force Main, Jeff Griffiths 189: Comparing Near Field Electromagnetic Inspection Tools, Bethany McDonald, Michael Higgins	265: Innovative Approaches to Water Main Replacement: Navigating Environmental Concerns and Spatial Constraints in Davie, Florida, Dave Clarke, Alfredo Montano, Larissa Faria, Oscar Bello, Albert Ruiz 332: From Inception to Completion – Rehabilitation of Large Non-Circular Combined Sewers in Winnipeg Manitoba, Adam Braun, Nathan Kelsler, Stacy Courmayer 257: Innovative Solutions for Historic Sewer Infrastructure: The Rehabilitation of DC Water's Northwest Boundary Trunk Sewer, Emily Cernic, Shikui-Steve Bian, Biserat Abebe, Rasko Ojdrovic	85: Pushing Through Adversity: Sliplining Challenges and Solutions in Large-Diameter Sewer Rehabilitation in Boston, Massachusetts, Stefani Harrison, Irene McSweeney 339: Computational Assessment of Pitting Corrosion in Cast-Iron Pipelines Rehabilitated by Cured-in-Place-Pipe Liner, Junyi Duan, Chengcheng Tao, Xingyu Wang, Ying Huang 258: Parallel Paths: Overseeing Two Pipeline Rehabilitation Projects in Southern California, Garret Toombs, Ian McFarbridge, Shakia Coburn	87: Data-Powered Strategies: Enhancing Pipeline Management for Small Water Systems, Greta Vladoanu, Sepideh Yazdekhasti, Philip Bevans 154: City of Hamilton–Woodward Greenhill 2250mm (90in) Feedermain Leak Repair, Michael Zantingh, Harry Kinas, Kevin Bainbridge 180: Advancing the Science and Practice of Pipeline Condition Assessment in Sewer Pipes, Sihon Zhou, Dulcy Abraham, Tam Isely	219: Development of Dynamic Database for Proactive and Predictive Risk Management of Underground Pipelines, Hui Wang, Sreelakshmi Sreeharan, Hao Wang, Homero Castaneda, Lei Wang 358: Artificial Intelligence-Enabled Pipeline Integrity Management for Detection and Prediction of Corrosion Defects, Bingyan Cui, Hao Wang
10:00 am – 11:30 am Technical Session 8								
A8: Innovative Lift Station and Sewer Design Projects Moderator: Samantha La Hee	B8: Navigating Urban Challenges Moderator: Inshik Park	C8: Advancements in Pipeline Design for Ground Deformation and Seismic Resilience Moderator: Coleman McClain	D8: AI in Water and Rehabilitation Moderator: Joseph Wager Reviewer: Benjamin McCray	E8: Data-Driven Water Pipeline Management Moderator: Olena Lytvyn	F8: Technical Assessments of Rehabilitated Pipe Moderator: Brent Keil	G8: Sewer Pipeline Rehabilitation Moderator: Shelby Warchesik	H8: Monitoring and Protection: Surveys, Sensors, and Spray Coatings Moderator: Nita Kazi	I8: Asset Management Using GIS and CCTV Moderator: Sri Rajah
58: Uncharted Wastewaters: Designing a Lift Station for a Region Still Under Design, McKenzie Cloud 271: We're Going to Need a Bigger Pump; Overview of Design and Construction of SAWS' Second Largest Lift Station and the E-54 Sanitary Sewer Project, Marshall Preas 90: Overcoming Complex Terrain – Engineering Fundamentals Behind ReWa's Gravity-Driven Sewer Operations, Cameron McGaw, Bret Lavey, Martin Deng	186: T-Minus 72 Hours: Installing Valves in a Congested Urban Setting, Kannon Bursaw 276: Shimming the Way Through – Collaborative Approach for Addressing Multi-Stakeholder Challenges, Freddy Betancourt, Ben Tumage, Michael Knowles, Will Poczekaj 306: Making My Way Downtown, Drilling Past and I'm Chip Bound: Designing a 16-mile Pipeline Fast, Jacob Pannell	177: Slippage Based Seismic Design Approach for Critical Ductile Iron Pipe Hospital Supply, Michael Britch 321: Axial Connection Force Capacity: Calculation Process for Seismic Design of Pipeline Systems, Hailey-Rae Rose, Brad Wham 207: Case Study for WWSP Welded Steel Pipe Seismic Design Approach, Mark Hovekost, Michael Britch	348: Integration of Machine Learning and Finite Element Analysis for Assessing the Conditions of Cure-In-Place-Pipe Liner Materials for Damaged Pipe Rehabilitation, Huaxiao Yan, Junyi Duan, Chengcheng Tao, Ying Huang 139: Predicting Degradation Patterns in Water Distribution Networks and Its Influence on Pipe Failure, Reza Maslami, Varsha Prabhakar, Valentina Burtua, Shweta Gowda 362: Applying a Purpose-Driven Methodology to Develop a Pipeline Condition Assessment Plan and Program, Roberto Mascarenhas, Andrew Nicholson, Ben Bryce	13: Enhancing Pipeline Integrity Management: Predictive Analytics and Probabilistic Applied Load Modeling for Water Transmission Networks, Khalid Kaddoura, Rabia Mady, Adil Mohamed, Khaleel Reisha 42: Washington Suburban Sanitary Commission's Forensic Program: Leveraging Data by Performing Material Evaluation on Failed Metallic Water Mains, Blen Jimna, David Daik, Haile Yerdaw 209: Study of Rehabilitation of Broken Wires in Prestressed Concrete Cylinder Pipe (PCCP) and Its Effect on The Structural Continuity of The Pipe, Ahmad Jibreel	368: Experimental Assessment of Trenchless Rehabilitation for Pipeline Bends, Molly Sickler, Sina Senji, Brad Wham, Shideh Dashti 342: Validating Structural Performance of Internal Replacement Pipe Repaired Legacy Pipelines Under Excavation-Induced Transverse Deformations, Sina Senji, Brad Wham, Shideh Dashti 310: CFRP Repair of Distressed PCCP and Other Pipes, Mehdi Zarghamee	40: Calculating the Cementitious Liner's Load Response to Produce an Efficient Wall Thickness, Norman Kampbell 132: Des Moines Water Reclamation Authority Rehabilitates 78-inch Reinforced Concrete Trunk Sewer Using Trenchless SpinCast Methods, Keith Walker, Brett Paige 312: Design of Rehabilitation of the Failed Masonry Sewer WYE Intersection, Divyansh Kapoor, Luiz Vieira, Piyush Garg, Renni Zhao, Shikui-Steve Bian, Anna Pridmore, Rasko Ojdrovic	228: Insights on Condition Monitoring of Water Assets from the Results of an Industry Survey, Diego Calderon, Marjan Moradi, Mohammad Najafi, Vinayak Kaushal 143: Using Sensors to Identify Point Sources of Pollution in a City of Atlanta Combined Sewer System, John Abrera, Cornelius Askew, Catrina Gunn 50: Optimizing Thermal Spray Coating Thicknesses on Varied Substrate Roughness Based on Pull-Off Tensile and Portable Adhesion Tests, Gul Badin, Ying Huang	6: Going Beyond NASSCO PACP Guidelines for Sewer Condition Assessment and Criticality Prioritization (With Case Studies), Okugbenga Ibikunle 84: Leveraging Predictive Modeling of Disinfection Byproducts for Proactive Management of Water Systems – A Case Study, Sepideh Yazdekhasti, Greta Vladoanu, Craig Daly 97: Modernizing Utility Infrastructure Data Exchange and Security, Daniel Calby, Philip Meis

Pipelines 2025 Venue Overview | *The conference will take place across two venues.*



Tampa Marriott Water Street (Saturday and Sunday):



- Pre-Conference Workshops
- Committee Meetings
- Emerging Leaders Program
- Pipelines Research Symposium



Tampa Convention Center

(Sunday Reception, Monday through Wednesday):

- Opening Reception (Sunday Evening)
- Technical Program Sessions (1st Floor)
- Plenary Sessions (breakfast & lunch)
- Exhibit Hall

For Live Updates: Download the 2025 UESI Pipelines Conference App
(Search in your app store.)



Utility Engineering and
Surveying Institute



@uesi_asce



@asce_uesi



YouTube

Utility Engineering and
Surveying Institute

Thank You to the 2025 Steering Committee

Steering Committee

Conference Co-Chairs

Felipe Pulido, P.E., M.ASCE,
Senior Project Manager, Jacobs Engineering

Brad Baird, P.E., *Deputy Administrator of
Infrastructure, City of Tampa*

Technical Program Co-Chairs

Alisa Gruber, P.E., M.ASCE,
Pipeline Project Manager, STV, Inc

Ross Standifer, P.E., M.ASCE,
Principal Engineer, Arcadis U.S., Inc

Advisors to Technical Co-Chairs, Workshops and Posters

Khalid Kaddoura, Ph.D., P.Eng., M.ASCE,
Team Lead – Pipeline Condition Assessment, GHD

Richard Nichols, P.E., M.ASCE, *Technical Director,
Uni-Bell PVC Pipe Association*

Exhibits and Sponsorship Co-Chairs

Jarred Jones, P.E., MBA, M.ASCE,
*Executive Director, North Charleston Sewer District
and North Charleston District*

Matthew Durham, M.ASCE,
*Sales Engineer, AMERICAN Cast Iron Pipe
Company*

International Chair

Diego Calderon, P.E., M.ASCE,
Senior Project Engineer, Jacobs Engineering

UESI Pipelines Division

ExCom Liaison

Jeff Shoaf, P.E., PMP, F.ASCE,
*Principal Engineer, San Diego County Water
Authority*

SAVE THE DATE

Detroit, Michigan
August 1–5, 2026

UESI
Pipelines
CONFERENCE

2026