



Conference Preview

NASTT 2024 NO-DIG SHOW | APRIL 14-18 | PROVIDENCE, RI



NETWORKING EVENTS | EXHIBIT HALL | TECHNICAL SESSIONS

2024 Planning Committee Member List

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Jennifer Glynn Woodard & Curran

Raj Gondle Umass Lowell

Nick Goodenow Stantec

Brian Huffman Sherwin Williams

Bill Jeffery *TT Technologies Inc.*

Chris Knott BTrenchless

Babs Marquis

Delve Underground

Tiffanie Mendez Sunbelt Rentals Pump and Power Services

George Ragula Ragula Tech

Eric Schuler Onondaga County Department of Water Environment Protection

Andrew Sparks Integrated Trenchless Engineering





Technical Program Committee Member List

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John Altinyurek McMillen Jacobs Associates

Edward Alan Ambler AM Trenchless

Chad Andrews

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Michael Flanagan WSP USA

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Alan Goodman HammerHead Trenchless Equipment

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Black & Veatch

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Chris Knott

BTrenchless

Dan Koo IUPUI

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HammerHead Trenchless

John Kraft Trenchless Technology Center

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Jim Murphy UniversalPegasus

International

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Bennett Trenchless Engineers

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Claude H. Nix Construction

Gus O'Leary Kleinfelder

Matt Olson Lithos Engineering

Brendan O'Sullivan Murraysmith

Kerby (Branako) Primm

Burns & McDonnell

George Ragula Ragula Tech

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Ehsan Rajaei

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John Schroeder Hazen and Sawver

Chris Schuler Miller Pipeline Corp.

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Andrew Sparks

Integrated Trenchless Enaineerina

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Independent Contractor

Greg Tippett Stantec

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Charles Tripp **AECOM**

Madison Veggian Woodard & Curran

Mark Wade

BlueWaters Solutions Group

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Kate Wallin

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APRIL 14-18 | PROVIDENCE, RI
NO-DIG SHOW
2024
BOOTH #501

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NASTT 2024 No-Dig Show Host Hotels

Room rates start at \$195+tax per night. See deadline for each hotel to receive the discount (block may sell out before this date so reserve early). All of our host hotels are in the heart of downtown Providence and within walking distance to the conference. Book your room today by visiting nastt.org/no-dig-show/hotel-information/.

- Omni Providence
- Graduate Providence
- Hilton Providence
- Courtyard by Marriott Providence Downtown









If you have any issues booking a room, please contact Michelle Hill at mhill@nastt.org

NASTT does not use an outside vendor to solicit hotel booking. The link on the conference website is the only official room block link. Only emails from nastt.org and Jessie Clevenger of NASTT are official No-Dig Show communications regarding hotels.









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Taking Trenchless to New Places

Trenchless construction is complicated, but partnering with Michels Trenchless is easy. We bring creative innovations, industry-leading experience and unmatched resources to every new installation and rehabilitation project. Whether you need a landfall approach for an offshore wind development, structural renewal for an aging water main, or options for safe, reliable, environmentally sound infrastructure construction, we are at your side from pre-construction and design through close-out.



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NASTT Awards Program

The NASTT awards program recognizes the commendable achievements and remarkable accomplishments of the individuals and companies associated with the trenchless technology industry.

NASTT Hall of Fame

This award honors
NASTT members
who have made
outstanding
accomplishments
and exceptional
contributions to the
advancement of the North
American trenchless industry
and NASTT.

The Hall of Fame awards will be presented at the Casino Royale event on Tuesday, April 16.

NASTT Chair Award For Distinguished Service

This award

acknowledges individuals who have selflessly given of their time and talents to enhance the Society and the industry. The person selected for the Chair Award is the decision of the NASTT Chair.

The NASTT Chair Award for Distinguished Service will be presented at the Casino Royale event on Tuesday, April 16.

Ralston Award For Young Trenchless Achievement

This award applauds savvy NASTT members under 36 who have demonstrated excellence early in their career by making valuable contributions to the trenchless technology industry, achieving noteworthy professional success, and actively participating in NASTT or its regional or student chapters. With their talent and ability, these impressive people are the future of trenchless.

The Ralston Award for Young Trenchless Achievement will be presented at the Opening Breakfast on Monday, April 15.

NASTT Volunteer Award

The Volunteer
Award recognizes
members who
exemplify the
mission, vision
and core values
of NASTT and
make an impact in the
trenchless industry through their
dedication, leadership and
volunteer contributions to
NASTT during the past year.
Recipients are chosen at the
discretion of the NASTT Staff.

The NASTT Volunteer Award will be presented at the Opening Breakfast on Monday, April 15.

Abbott Innovative Products & Services Award

This award celebrates companies with a state-of-the-art product or service making a significant impact in advancing the trenchless industry in the areas of rehabilitation or new installation. All applicants will discuss their product at the Innovative Products Forum at the No-Dig Show.

The Abbott Innovative Products & Services Awards will be presented during the Exhibit Hall Ribbon Cutting Ceremony on Monday, April 15.





SATURDAY Schedule

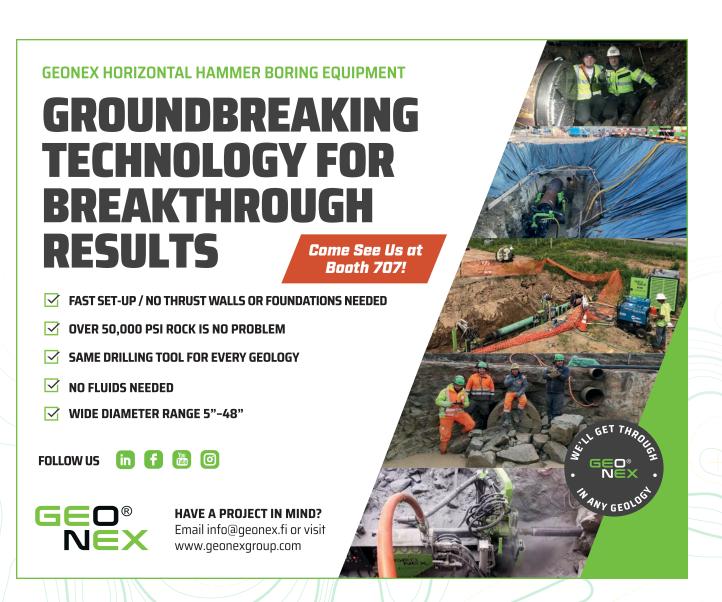
NASTT Board Meeting

9:00 AM - 3:00 PM Room 557

 NASTT Technical Program Committee Meeting & Reception

3:30 PM - 6:30 PMRoom 555AB (Meeting)

Rotunda (Reception)



04.14.24

SUNDAY Schedule

	Attendee & Exhibitor Registration 7:00 AM - 5:00 PM Exhibit Hall Prefunction
	Introduction to Trenchless Technology - New Installations 8:00 AM - 12:00 PMRoom 552AB
	Introduction to Trenchless Technology – Rehabilitation 8:00 AM – 12:00 PMRoom 551AB
	Municipal Sewer Grouting Good Practices 8:00 AM - 12:00 PM Room Ballroom D
	Pipe Bursting Center of Excellence Meeting 12:00 PM - 12:30 PMRoom 555AB
	NASTT Chapter Chair and Vice Chair Meeting 12:00 PM - 1:00 PMRoom 553B
	Annual General Meeting (Current NASTT Membership Required) 1:00 PM - 2:00 PMRoom 555AB
	NASTT Chapter Meetings 2:00 PM - 6:30 PM See Website for Details and Room Assignments
	Student Orientation Meeting 4:00 PM - 5:00 PMRoom 555AB
	Young Professionals/Student/Municipal Scholarship Social (Private Event)
	5:00 PM – 7:00 PMRotunda NASTT Past Chair Dinner
<i>T</i>	(Invitation Only Event) 7:00 PM - 10:00 PMOffsite





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With a 100-year design life, zero allowable leakage, the largest flow capacity and fatigue life, resistance to corrosion, freeze/thaw events, wet/dry cycles, ground movements and earthquakes, HDPE piping is superior for trenchless installations.

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No-Dig Booth 613

LIVE HANDS-ON DEMONSTRATIONS





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A not-for-profit association, the Plastics Pipe Institute, Inc. has the technical information, data, field reports plus professional engineers to help in the design and selection of the proper components for your system.

04.15.24

MONDAY Schedule

	AM – 5:00 PM	on Exhibit Hall Prefunction
-	xer Ready Room AM – 5:00 PM	Room 557
-	ng Breakfast AM – 9:30 AM	Ballroom ACE
		ks 1-6) 551AB, 552AB, 555AB, 556AB, Ballroom B, Ballroom D
Produ	cts & Services Award	emony & Abbott Innovative
	it Hall Open 0 PM – 3:30 PM	Exhibit Hall A-D
		ks 1-6) 551AB, 552AB, 555AB, 556AB, Ballroom B, Ballroom D
	T Annual Educational Fund PM – 6:30 PM	d Auction Ballroom ACE





MONDAY Morning

TRACK - ROOM	TRACK 1 = 556	TRACK 2 = 555	TRACK 3 = Ballroom B
TRACK TITLE	Microtunneling	HDD	Innovative Products
TRACK LEADER	DAVE SACKETT	PAUL BEARDEN	MATTHEW IZZARD
10:00 - 10:25	■ MM-T1-01 Tunneling on the Shores of Lake Erie: Microtunneling Challenges and Considerations through Soft Ground	■ MM-T2-01 Design and Construction of World Record 7,650-ft FPVCP HDD in Florida	MM-T3-01-04 Innovative Products Forum
10:30-10:55	■ MM-T1-02 Design and Construction of Six Microtunnels for GLWA 14 Mile Loop	■ MM-T2-02 New Subaqueous Trenchless Outfall in Long Island, New York - Overcoming Various Challenges to Completion	
11:00-11:25	■ MM-T1-03 Forcemain Twinning Made Possible by Microtunnelling	■ MM-T2-03 Understanding the Importance of HDD Radii	
11:30-11:55	■ MM-T1-04 Going the Distance: Microtunnel Keeps Golfers Swinging	■ MM-T2-04 Mitigating Instances of Pressurized Groundwater During HDD Construction	

MONDAY Afternoon

TRACK = ROOM	TRACK 1 = 556	TRACK 2 = 555	TRACK 3 ■ Ballroom B
TRACK TITLE	Large Diameter Tunneling	Pipe Jacking	Projects of the Year
TRACK LEADER	DON DEL NERO	SAM BRANCHEAU	MIKE KEZDI
3:30-3:55	■ MA-T1-01: A Tale of Many Tunnels: Challenges Urban Areas Creating a Network of Microtunnels to Connect a Large Diameter CSO Pawtucket Tunnel	■ MA-T2-01 Trenchless Shore Approaches: The Role of Pipe Jacking and Direct Pipe for Pipeline and Export Cable Landfalls	MA-T3-01-03 Projects of the Year Forum
4:00-4:25	■ MA-T1-02 Tunneling for Clean Solutions for Omaha	■ MA-T2-02 Implementing Multiple Trenchless Methods In Place of Open-Cut in Downtown Cleveland on the Shoreline Consolidation Sewer Project	
4:30-4:55	■ MA-T1-03 Stormwater Tunnel Extension	■ MA-T2-03 Trenchless Replacement of Aging Sewer Trunk Main in Sonoma, California	

TRACK 4 = Ballroom D	TRACK 5 = 552	TRACK 6 ■ 551
Pipe Ramming & Pipe Jacking	CIPP	Water Main Rehabilitation
ANIL DEAN	AMBER WAGNER	GEORGE RAGULA
■ MM-T4-01	■ MM-T5-01	■ MM-T6-01
Getting Hammered at 8,500 Ft.	Detailed Parameter Sensitivity Analysis and Practical Ramifications for Assessment and Design using the ASCE MOP 145- Design of Close-fit Liners for Gravity Sewers	Repair of 78-in. and 102-in. PCCP Aqueducts by Sliplining Using Centrifugally Cast, Fiberglass-Reinforced, Polymer Mortar Pipe (CCFRPMP)
■ MM-T4-02	■ MM-T5-02	■ MM-T6-02
Pipe Hammering Underneath a Class 1 Railroad for New Drainage	The CIPP Quality Assurance Paradox	Case Study of a New AWWA Class IV Lining System for PCCP
■ MM-T4-03	■ MM-T5-03	■ MM-T6-03
AMICI Engineering Contractors Dual Conductor Barrels Help Facilitate Potential Record-Breaking HDD Project	Big Liners in Small Spaces: Rehabilitation of a 120-Year-Old, 54-in. Brick Interceptor in Lawrence, Massachusetts	Emergency Interconnection Rehabilitation at the Sakonnet River
■ MM-T4-04	■ MM-T5-04	■ MM-T6-04
Reducing Flood Risk Through North America's Largest Microtunnelling Installation- The NWIC Upper Plateau Separation Project	Cured-In-Place Pipe (CIPP): A Proven Systems Technology	St. Paul Regional Water Services: Developing a Self-Performing Pipe Bursting Program

TRACK 4 ■ Ballroom D	TRACK 5 = 552	TRACK 6 = 551
Emerging Technologies	1/1	Project Planning & Delivery
DAVE KOZMAN	CATHY MORLEY	GUS O'LEARY
■ MA-T4-01	■ MA-T5-01	■ MA-T6-01
How One Texas Municipality Implemented a New In-line Inspection Technology to Inspect a Critical Raw Water Line	High-Build Epoxy Rehabilitates Critical 100-Year-Old Structure in Downtown Boston	It Didn't Include Quantities - Advantages and Disadvantages of Indefinite Deliverable Indefinite Quantity (IDIQ) Contracts for Trenchless Sewer Rehabilitation
■ MA-T4-02	■ MA-T5-02	■ MA-T6-02
Introduction to Manufactured In-Place Composite Pipe (MICP)	Implementation of a Multi-Year I&I Source Reduction Improvements Program in Allentown, Pennsylvania	Laguna County Sanitary District Asbestos Abatement UV CIPP Rehabilitation Through Protected Environments in Santa Maria, California
■ MA-T4-03	■ MA-T5-03	■ MA-T6-03
How to Select New and Emerging Technologies for Real Time Pressure	SIPP: Minimizes Disruption Repairing Pinhole Leaks in Distribution Water Main Pipes	Free Swimming Electromagnetic Assessment of Raw Water Pipeline Provides Critical Baseline Data





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TUESDAY Schedule

04.16.24

Attendee & Exhibitor Registrat	ion
7:30 AM - 5:00 PM	Exhibit Hall Prefunction
■ Speaker Ready Room	
7:00 AM – 5:00 PM	Room 557
Morning Wake Up Station	
7:00 AM – 8:00 AM	5th Floor Prefunction
■ Technical Paper Sessions (Tra	cks 1-6)
8:00 AM - 10:55 AM	551AB, 552AB, 555AB,
	556AB, Ballroom B, Ballroom D
Exhibit Hall Open	
10:55 AM - 3:30 PM	Exhibit Hall A-D
■ Technical Paper Sessions (Tra	cks 1-6)
3:30 PM - 5:25 PM	551AB, 552AB, 555AB,
	556AB, Ballroom B, Ballroom D
■ Casino Royale (ticketed event)	
6:00 PM - 10:00 PM	Ballroom ACE





TUESDAY Morring

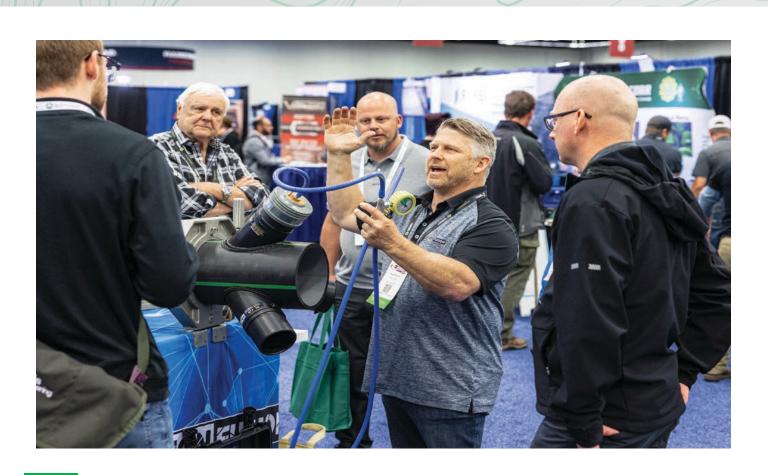
TRACK = ROOM	TRACK 1 = 556	TRACK 2 = 555	TRACK 3 = Ballroom B
TRACK TITLE	Geotechnical Issues	HDD	Emerging Technologies
TRACK LEADER	DENNIS DOHERTY	KATE WALLIN & MARY NEHER	DAVID HAUG
	■ TM-T1-01	■ TM-T2-01	■ TM-T3-01
8:00-8:25	Outside the Box Geotechnical Data Collection Approaches for Trenchless Crossings	Drilling in Paradise: The Race to Replace Aging Pipelines along Florida's Oldest Causeway	Emergency Trenchless Rehabilitation of the East Don River Trunk Sewer and the Highland Creek Interceptor
	■ TM-T1-02	■ TM-T2-02	■ TM-T3-02
8:30-8:55	Trenchless Replacement of Aging Force Main in the Russian River Gorge	Drilling Down to Eliminate Overflows	The Use of a Geo Pilot Bore to Confirm HDD Feasibility
	■ TM-T1-03	■ TM-T2-03	■ TM-T3-03
9:00-9:25	A Novel Approach to Geotechnical Data Collection and Development of Civil 3D Subsurface Model for Large Scale Trenchless Shore Approaches	Pulling HDPE and RJ-DIP in One HDD Installation	Concept for Jet-based Thermal Spallation Boring for Trenchless Tunneling in Challenging Hard Rock Geologies
	■ TM-T1-04	■ TM-T2-04	■ TM-T3-04
9:30-9:55	Ensuring Global Stability Around Large Diameter Structures In Conjunction With Sliplining & CIPP Rehabilitation	Perkins Avenue: A Community Benefits Long-Term from HDD	The Pittsburgh Water and Sewer Authority (PWSA) Large Diameter Sewer Rehabilitation with Geopolymer Lining System (GLS) Mortar
	■ TM-T1-05	■ TM-T2-05	■ TM-T3-05
10:00-10:25	The Execution of GBRs on Trenchless Projects - Are They Working?	Design-Build Coordination and Manage- ment Plan for the Bay Park Conveyance Project Delivery with Dual Trenchless Construction Methods in New York	Direct Steerable Pipe Thrusting for Land-to-Water Installations in an Emerging Renewable Energy Market
	■ TM-T1-06	■ TM-T2-06	■ TM-T3-06
10:30-10:55	Hydraulic Fracture Analysis: Evaluating the Applicability of the Delft Equation Under Undrained Conditions	Differing Site Conditions Claims: Contractor's Right to Rely on Soils Data	Trenchless Solutions for Small-diameter Pipeline Installations

■ Electrical

TRACK 4 - Ballroom D	TRACK 5 = 552	TRACK 6 ■ 551
Renewables	Condition Assessment	Wastewater Pipeline Rehabilitation
GABE GARCIA	MARK WADE	GEORGE KURZ
■ TM-T4-01	■ TM-T5-01	■ TM-T6-01
South Fork Wind: Bringing Offshore Energy to Shore	Force Main Condition Assessment: A Treatise from an Owner, Consultant and Industry Point of View	MID Segment 5 Rehabilitation: Innovative Debris Removal, Spray Lining and Sliplining of a Large Diameter Sewer Without Interrupting Service
■ TM-T4-02	■ TM-T5-02	■ TM-T6-02
ТВА	How to Effectively Perform a Pipeline Health Check for Sewer Force Mains	First Aqueduct Treated Water Tunnels Rehabilitation for Domestic Water with GeoSpray Geopolymer for San Diego County Water Authority (SDCWA)
■ TM-T4-03	■ TM-T5-03	■ TM-T6-03
ASTM F1962-HDD Standard Guide for Placing Polyethylene Pipe-Recent Additions and Status	Visual Inspection & CFRP Strengthening of CIP Liner - The West Trunk Sewer Pipe in Mississauga, Ontario	Rehabilitating a 48-in. Brick Sewer Under a Mass Transit Right-of-Way
■ TM-T4-04	■ TM-T5-04	■ TM-T6-04
Best Practices for Safe, Efficient Shore Approach Design and Construction	Three Case Studies Covering All Aspects of Pressure Pipe Condition Assessment	Choose Wisely: Trusting Permanent Shotcrete Lining to Preserve a Northeast Ohio Culvert
■ TM-T4-05	■ TM-T5-05	■ TM-T6-05
Sioux Falls Replaces Nearly a Mile of Large Diameter Ductile Iron Pipe via Pipe Bursting	Determining Maintenance Strategies for Large Diameter Water Pipelines using RCM	Designing World's Largest Composite Pipe for Sliplining
■ TM-T4-06	■ TM-T5-06	■ TM-T6-06
Old, leaky and Hard to Access - Rehabilitating a 100-Year-Old Water Transmission Main	Inspection of a 50-Year-Old Outfall Forcemain to San Pablo Bay	The Lining Selection Tools between Cured-in-Place Pipe (CIPP) and Spray-in-Place Pipe (SIPP) Lining Methods

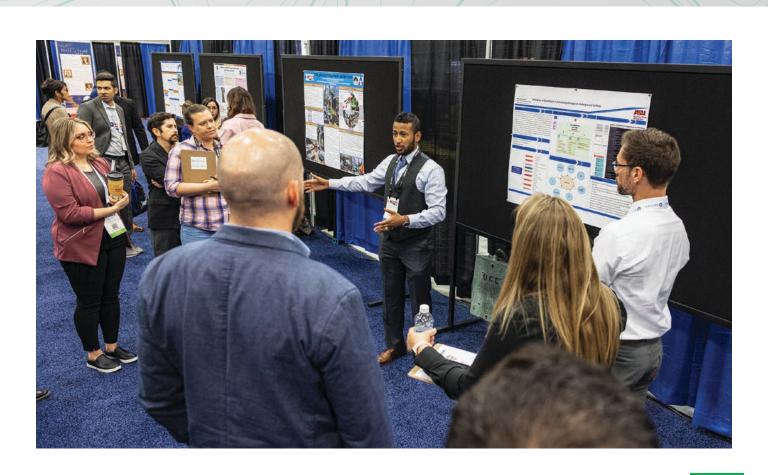
TUESDAY Afternoon

TRACK - ROOM	TRACK 1 ■ 556	TRACK 2 ■ 555	TRACK 3 ■ Ballroom B
TRACK TITLE	Microtunneling	HDD	Pilot Tube Methods
TRACK LEADER	NORMAN CHAN	KYLE WILLIAMS	MICHAEL FLANAGAN
	■ TA-T1-01	■ TA-T2-01	TA-T3-01-02
3:30-3:55	Trenchless Design Challenges and Real World Application in Aurora, Colorado	Challenges and Lessons Learned of Horizontal Directional Drills in South Florida	Northeast Trenchless Outlook Forum
	■ TA-T1-02	■ TA-T2-02	
4:00-4:25	Alternative Delivery and Trenchless Methods used to Install 60,000LF of Pipe on the Bay Park Forcemain Project	16-in. HDD Gas Pipeline Crossing of the Sacramento River in Rio Vista, California	
	■ TA-T1-03	■ TA-T2-03	■ TA-T3-03
4:30-4:55	Microtunnel Specifications - Balanced Specifications and Lessons Learned	Double Trouble: A Tale of Twin Water Main HDD Installations with Two Pipe Types While Drilling in Tight Places	Navigating a 30-in. Hammer through 8-in. River Rock: A Utah Historic Winter Case Study
	■ TA-T1-04	■ TA-T2-04	■ TA-T3-04
5:00-5:25	Microtunneling for Electric Cables in Providence: A Case Study	Determination of Geotechnical Parameters for Design of Horizontal Directional Drilling	Sanitary Sewer Projects Converted to Pilot Tube Method of Guided Boring



04.16.24

TRACK 4 - Ballroom D	TRACK 5 = 552	TRACK 6 = 551
Inspection	CIPP	Sliplining
STEPHEN WELLING	ANDREW COSTA	STEPHANIE NIX
■ TA-T4-01	■ TA-T5-01	■ TA-T6-01
The Perils of Surcharging Interceptors: Unintended Consequences of In-line Storage	Factors Controlling the Ability of Polymer Liners to Prevent Pipeline Leakage Under Differential Ground Movements	LS 23 Force Main Upgrades by HDD & Slipline
■ TA-T4-02	■ TA-T5-02	■ TA-T6-02
Characterization of Critical Concrete Pipes Using Circumferential Waves	Emergency Force Main Repair Using Pressure CIPP	Advancements in Trenchless Technology: San Diego First Aqueduct Treated Water Tunnels Rehabilitation Project
■ TA-T4-03	■ TA-T5-03	■ TA-T6-03
Multi-Sensor Inspection: Assessing the Condition of Large Diameter Pipes With 3D LIDAR Modeling	A Twin Makes It Better! Rehabilitation of the McVean Trunk Sewer System, Regional Municipality of Peel	Rehabilitation of the Confluence of Two Large Diameter Interceptors in Macomb County, Michigan
■ TA-T4-04	■ TA-T5-04	■ TA-T6-04
How to Effectively Perform a Pipeline Health Check for Large Diameter Gravity Sewers	Halifax Water Akerley Forcemain Lining	Design Method of Pipeline in Shield Tunnel Crossing Fault



APRIL 14-18 | PROVIDENCE, RI NO-DIG SHOW 2024

NASTT 20 Educational Fund Auction

NASTT'S 23rd Annual Educational Fund Auction & Reception in the Ballroom!

The Annual Educational Fund Auction helps raise money for important causes. Due to your generosity, NASTT is able to provide targeted trenchless training and courses to the industry, publish resource manuals and sponsor university students' attendance to the NASTT No-Dig Show, as well as award scholarships. *Text NASTT24* to 243725 to start bidding or make a donation!

50/50 Raffle and \$5,000 Cash Prize Drawing

Win some cash for yourself and help our Educational Fund! Buy your 50/50 Raffle tickets through the auction website. The winner will be drawn during the Auction on April 15 and you **MUST** be present to win! The winner splits the cash pot with the fund.



The \$5,000 cash prize drawing, sponsored by Vermeer, is back! All Full-Conference attendees will automatically be entered to win and anyone can buy additional tickets through the auction website. The winner will be drawn during the Auction on April 15 and you **MUST** be present to win!

For more information visit nastt.org/no-dig-show/auction/

APRIL 15

5:00-6:30 PM

Exciting Auction Items

Bid all day via your mobile device on great items like electronics, wine, spirits, industry items and more!

And join us in the Ballroom on Monday evening for food drinks and networking!

Bidding is open to anyone in North America and items will be shipped to winners.

Auction Reception sponsored by:





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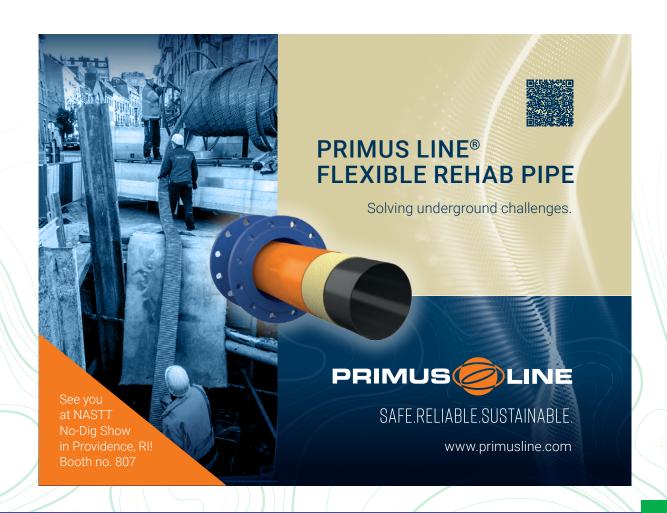


or search "NASTT No-Dig Show" in your app store.

WEDNESDAY Schedule

04.17.24

Attendee & Exhibitor Registration
7:30 AM – 12:00 PM Exhibit Hall Prefunction
■ Morning Wake Up Station
7:00 AM - 8:00 AM5th Floor Prefunction
■ Technical Paper Sessions (Tracks 1-6)
8:00 AM – 9:55 AM 551AB, 552AB, 555AB,
556AB, Ballroom B, Ballroom D
■ Exhibit Hall Open
9:00 AM – 1:00 PM Exhibit Hall A-D
■ Closing Luncheon
12:00 PM- 1:00 PM Exhibit Hall A-D
■ NASTT Good Practices Courses Day 1
1:30 PM- 5:30 PM 550A, 550B, 551AB and 552AB
1:20 DM



WEDNESDAY Morring

TRACK = ROOM TRACK 1 = 556		TRACK 2 = 555	TRACK 3 = Ballroom B					
TRACK TITLE	Project Planning & Delivery	HDD	Safety					
TRACK LEADER	KERBY PRIMM	KIM HANSON	MO NAJAFI & EHSAN RAJAEI					
	■ WM-T1-01	■ WM-T2-01	WM-T3-01-02					
8:00-8:25	The Considerable Cost of the Burrowing Beetle	HDD Construction of a Large Diameter Pipeline Under the Oakland Inner Harbor and Though Soft Clays	Renewables in 2024 Forum					
	■ WM-T1-02	■ WM-T2-02						
8:30-8:55	Pullback Lift Considerations for Horizontal Directional Drills	Golden Ears Forcemain River Crossing Project: Lessons Learned from HDD and Pipe Ramming Crossings						
	■ WM-T1-03	■ WM-T2-03	■ WM-T3-03					
9:00-9:25	Dickenson Road	Highlights of the High Life - Miami Beach's Horizontal Directional Drill Case Study	Seismic Design of HDPE Pipe					
	■ WM-T1-04	■ WM-T2-04	■ WM-T3-04					
9:30-9:55	Options to help Owners Manage Budgets in Volatile Markets	Completing a Short but Challenging HDD River Crossing to Install a 30-in. HDPE Bundle in Mixed Subsurface Conditions	Unique Considerations for Cable System's Landfall HDD Planning and Design					



04.17.24

TRACK 4 Ballroom D	TRACK 5 = 552	TRACK 6 ■ 551	
Gas	Trenchless Research	Asset Management	
JIM MURPHY	RICHARD THOMASSON	CHAD ANDREWS	
■ WM-T4-01	■ WM-T5-01	■ WM-T6-01	
Innovations and Advancements in Liners for Positive Pressure Applications	Styrene Emission Evaluation: An Innovative Controlled Test Setup	A City's Ongoing Rehabilitation Program of Aging Sewer Infrastructure	
■ WM-T4-02	■ WM-T5-02	■ WM-T6-02	
Never Give Up: Completing a Challenging 2,000 ft HDD Beneath I-495/3 That Was a Decade in the Making	The Proper Order of Operations for CIPP Rehabilitation of a Collection System	18.6km Electromagnetic Inspection for the City of Winnipeg	
■ WM-T4-03	■ WM-T5-03	■ WM-T6-03	
Critical Aspects and Construction Challenges for the use of Direct Steerable Pipe Thursting (DSPT)	Sewer UV CIPP Rehabilitation on the River	Geopolymer or not Geopolymer? That is the Question of the Day from the Boston Water and Sewer Commission (BWSC)	
■ WM-T4-04	■ WM-T5-04	■ WM-T6-04	
Comparative Analysis of Load-Deflection Behavior and Crack Sizes in Repaired Pipe Specimens	An Investigation of Methods and Equipment Used to Measure Volatile Organic Compound Emissions during Cured-in-Place Pipe (CIPP) Rehabilitation	Difficult Watermain Pipe Bursting Project Along Shoreline Roadway in Connecticut	

■ Wastewater



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THURSDAY Schedule

04.18.24

NASTT Good Practices Courses Day 2

8:00 AM- 12:00 PM 550A, 550B, 551AB and 552AB



NASTT 2024 No-Dig Show Exhibitors

EXHIBITORS

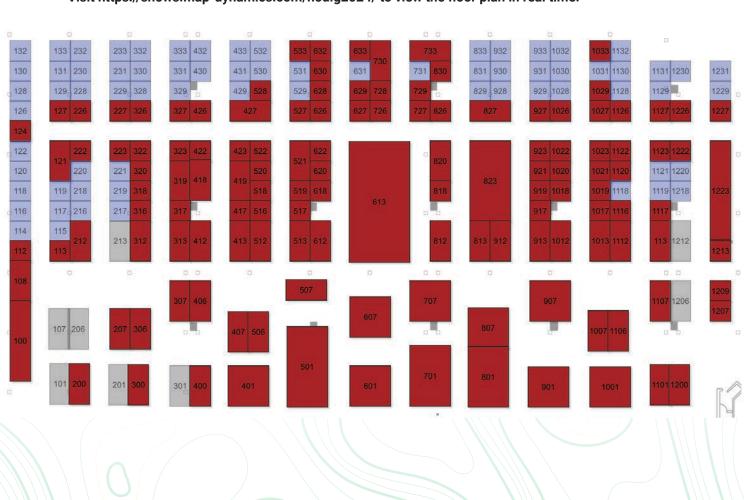
Exhibitor list is accurate as of 2/6/24

Company	Booth	Company	Booth	Company	Booth
Acoustical Control, LLC	517	Geonex Oy	707	PPG	1018
AECOM	727	GeoTree Solutions	521	Precision Trenchless LLC	533
Aegion	801	HammerHead Trenchless	901	Prime Resins	620
AGRU America, Inc.	1126			Primus Line Inc.	807
Akkerman	300	Machinery Co., LTD.	317	Progressive Pipeline Management	729
Allied Centrifuge Technologies		Herrenknecht Tunnelling Systems USA, Inc	407	PSILab, Inc.	1023
Industrial Dynamics	222	Hobas Pipe USA, Inc.	307	Puris Corp	413
Allied Trenchless	401	Holly Pipe Corp	518	Rain for Rent	1022
Anyue Trenchless Materials	1127	HTS Pipe Consultants	527	RapidView IBAK North America	501
AOC Resins	513	Huxted Trenchless	1027	Reline America, Inc.	1001
Aprotek USA, Inc.	830	Hydra-Flex, Inc.	1027	Rockpecker Limited	113
ARIES Industries	823		820	Ruby-Collins, Inc.	731
Avanti International	923	Imerys Innovations Amplified	820 427	SAERTEX MultiCom	921
Ballard Marine Construction, LLC	1116	•		Sauereisen, Inc.	326
Benjamin Media Inc	730	Inrock Drilling	1026	Savy & Sons	633
Bond Civil & Utility Construction, Inc.	313	Interplastic Corporation	912	Sealing Systems Inc	826
Bothar Inc.	108	IPEX USA LLC	406	SEKISUI SPR Americas, LLC	612
Brawo Systems	1123	J. Fletcher Creamer & Son, Inc.	223	Sentinel Solutions LLC	100
Brierley Associates Corporation	1021	Jacobs	412	Sherwin-Williams	607
Brownline U.S.A.	1012	Kobus Inc	907	Source One Environmental	1209
Can-Ex Technologies	319	Kondex Corporation	121	Sprayroq	422
Carboline Global	628	KSW Industrial	1029	Structural Technologies	812
Carylon Corporation	419	Logan Clay Products	322	Sunbelt Rentals	1013
CCI & Associates Inc	506	Logiball Inc.	622	Super Products	400
Channeline International Fiber	000	MADERO Engineers & Constructors LLC	127	Terracon	516
Glass Manufacturing LLC	200	Madewell Products Corporation	927	The Haartz Corporation	226
CJGeo Contractors	1020	Master Builders Solutions	423	The Plastics Pipe Institute	613
COLE Publishing Inc.	124	Mears Group Inc.	913	The Tunneling Company	1117
Coppola Services, Inc.	629	Metaflo Technologies Inc.	227	Thompson Pipe Group	522
Core & Main	507	Michael Byrne Manufacturing	112	Transwest Truck Trailer RV	1223
CUES, Inc.	1213	Michels Trenchless, Inc.	601	Trenchless Rental Solutions	316
Danby PVC Lining	528	Midwest Mole, Inc.	1019	Trenchless Technology Center (TTC)	
Delve Underground	618	Miller Pipeline	626	Trinity Products	726
DLVEWS, Inc.	323	Mi-Tech Services, Inc.	632	TRY TEK Machine Works, Inc.	1207
Doetsch Environmental Services	627	Mott MacDonald, LLC	318	TT Technologies	701
DSI Tunneling LLC	1007	Northwest Pipe Company	1106	Underground Magnetics Inc.	1107
Eartec Co.	917	NuFlow Technologies	813	United Felts/MaxLiner	306
Earth View LLC	113	Numa Hammers & Bits	1222	United Underground Precast &	000
Elgin Separation Solutions	417	OBIC Products	630	Infrastructure, LLC	1033
Emagineered Solutions	418	Olson Construction Law, P.C.	1017	Vector Magnetics	1226
Environmental Noise Control	919	Omega Liner Company, Inc	827	Vermeer Corporation	1101
ENZ Nozzles	327	On Point HDD	733	Vortex Companies	207
Epoxytec LLC	320 —	PICA Corp.	1120	Warren Environmental	512
Faction Fusion	818	Pica corp. Picote Solutions	1120	Westlake Pipe & Fittings	212
FER-PAL/ALTRA	1112	Pioneer One		WSP	1200
FyfeFRP, LLC	519	Figureer one	520		

FLOOR PLAN

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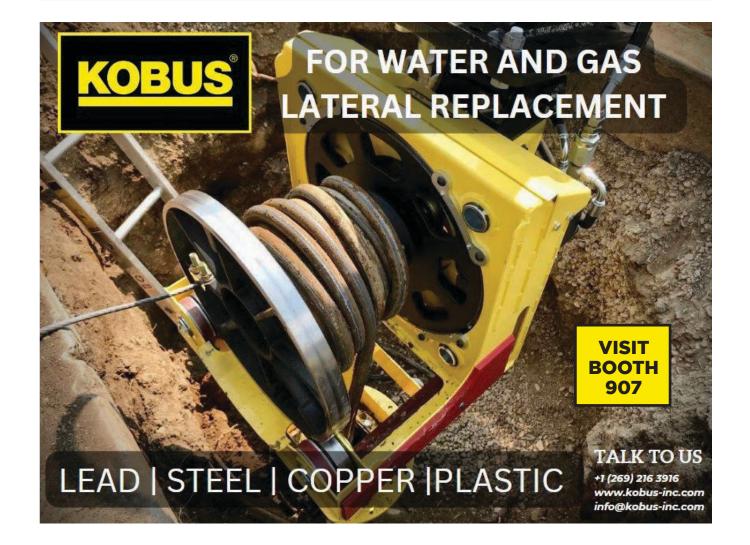




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