


TRENCHLESSWORKS

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COMPRESSIONFIT ADVANCES INTO XXL PIPELINE MARKET

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Beyond the Ordinary

SPOTLIGHT



Paul Harwood, Managing Director of event organiser Westrade Group Ltd, Publisher, Trenchless Works, Liaison, Board of Directors, International Society for Trenchless Technology

Hello All

October kicked off with the ISTT International No-Dig event, held in Santa fe, Mexico. This was the 39th Annual International No-Dig event and was fabulously hosted by the NASTT Mexican chapter. The event featured an exhibition, seminars, workshops, and debates along with the ISTT Awards Dinner. A fun time was had by everyone. The UKSTT was well represented in Mexico and was on hand to celebrate past Chair Ian Vickridge receiving the Lifetime Achievement Award and current Chair Ian Ramsay receiving a Fellow's Award. A special feature focusing on the ISTT International No-Dig Mexico will be published in the next issue of Trenchless works.

Keeping with events and Awards, 29 November will be a day not to be missed. The day sees the No-Dig Roadshow Bristol taking place at the fabulous Tortworth Court, supported by South West Water and Wessex Water and sponsorship by Reinert Ritz, Stock Rentals Ltd and UIS Ltd.

The evening will come alive with the UKSTT Annual Awards dinner featuring Kyran Bracken as the guest speaker. As always, the evening is sure to be full of fun, whilst recognising the year's best performing and innovative trenchless technologies.

Something to look out for will be the Trenchless Works Rehabilitation special issues. These will be published in December and January 2024. Detailing thought leadership articles and comments from respected industry peers market leaders and consultants will be at the heart of issue. If you would like to be involved and put in front of thousands of CIPP readers, please contact us.

Paul Harwood

The new Minicam service centre in Long Beach, California, USA

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MINICAM OPENS US SERVICE CENTRE

Minicam has recently opened a brand-new service centre located in Long Beach, California, USA. The new pipeline inspection service and repair centre is staffed by a team of experienced technicians dedicated to ensuring that your inspection equipment is quickly returned to you in full working condition with minimal downtime.

For nearly 30 years, Minicam has used industry experience and customer feedback to continually innovate. The company strongly emphasises reliability and robustness, designing systems that are durable during handling and in challenging pipe conditions and that they are efficiently serviced, so that working time is maximised. Designing, manufacturing, and servicing in-house ensures the highest levels of quality and the ability to meet customers' needs for fast delivery and response times. With growth into the American market, Minicam wants to ensure customers are supported and have a trusted partner to rely on.

Minicam's new California service centre will allow it to support customers and offer direct assistance from the manufacturer. Service is also available through the company's trusted dealer, Kaiser. Minicam we directly invests in Kaiser to ensure that customers have a reliable service centre to repair their inspection equipment and ensure that their inspection equipment will be back up and running with minimal disruption to their work schedule. Kaiser also offers opportunities to rent full lateral and mainline Minicam vans.

Every business wants to be successful and provide its customers with the best possible service. With Minicam's fast turnaround times, it helps reduce costly downtime and, therefore, increase efficiency, safety, and on-site productivity. The company repairs all makes and models of push camera systems, with services including rod re-terminations, camera head repairs, and monitor repairs. Minicam also repairs all makes and models of mainline and lateral inspection systems, with services including cable re-terminations, camera head, and tractor repairs. The company also troubleshoots and repairs control units for pipeline inspection, as well as refurbishing control units with new components to get them running like new. The California service centre also offers repairs for all makes and models of cable and pipe locators, metal detectors, and locating receivers.

Minicams teams of highly skilled technicians are experienced and knowledgeable in all aspects of fault-finding and diagnostics and take great pride in providing customers with reliable, professional, and prompt service to get their equipment performing efficiently and delivering maximum productivity. During the strip-down of client's equipment, the technicians meticulously check for wear and tear of parts and will advise customers of any maintenance issues that need attention.

Equipment not in use due to damage, failure, or waiting to be tested and repaired can be costly and inconvenient to a business. Preventative maintenance regularly performed on inspection equipment will reduce the likelihood of failure. For peace of mind, Minicam recommends users take out a service plan at 6 to 12-month intervals to keep equipment in tip-top condition and ready for work in challenging conditions. ■

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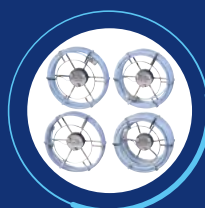
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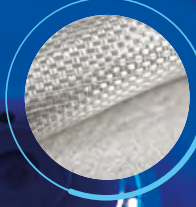
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CAPE TOWN MAKES PROGRESS ON ANOTHER MAJOR BULK SEWER UPGRADE

A typical microtunnel launch shaft



Microtunnelling in use in Cape Town

The Mayor of Cape Town, South Africa, Geordin Hill-Lewis was on-site recently as the City broke ground on the next portion of the major R470 million (£20 million/ US\$25 million) Milnerton Bulk Sewer upgrade, with construction of an entirely new pipeline set for completion by 2025.

This complex project entails the construction of a new bulk sewer in Montague Gardens using innovative microtunnelling technology. The City will also extend and connect the Edgemoor and Century City Bulk Sewers into the new infrastructure.

Once the nearly 4 km of new bulk sewer is built by early 2025, the City will divert sewage along this new line while it rehabilitates the existing Bulk Sewer in Montague Drive, Montague Gardens.

Given that the existing pipeline is under the busy Montague Drive roadway, pipe rehabilitation will make use of trenchless technology. A robotic crawler will first profile pipes to determine the best method of repair, and all work will occur underground with minimal surface level disruption to residents and traffic.

"It was a joy to break ground on yet another major upgrade project of this administration. The existing Bulk Sewer under Montague Drive is operating at full capacity, with an upgrade needed to accommodate future growth in this part of the city. That is why we are constructing an entirely new bulk sewer, which will operate alongside the rehabilitated existing pipeline. The new pipeline will be complete in 2025, the same year as the conclusion of our major Cape Flats Bulk Sewer rehabilitation project, currently the largest in South Africa. In this way, we are future-proofing our city, so that Cape Town can be an even better place to live as the metro continues to grow. When we talk of our long-term vision of building a city of hope for all, it really comes down to projects like this, which bring about better living conditions for residents." said Mayor Geordin Hill-Lewis. >

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The microtunnelling crew on site with Mayor Hill-Lewis

"The new pipeline will be complete in 2025, the same year as the conclusion of our major Cape Flats Bulk Sewer rehabilitation project, currently the largest in South Africa."

Over the next three years, the City will invest a massive R1.4 billion (£60 billion/US\$74 billion) in major bulk sewer upgrades to the Cape Flats, Philippi, Milnerton, and Gordon's Bay lines.

Cape Town is ramping up infrastructure investment, with a 223% increase in its Water and Sanitation infrastructure budget over three years, from R2.3 billion (£98 billion/US\$121 billion) in 2022/23 to R7.8 billion (£332 billion/US\$412 billion) in 2025/26.

Besides bulk sewer upgrades, other highlights include:

- R8.6 billion (£367 billion/US\$454 billion) capital expenditure on WWTW upgrades over three years
- R1.3 billion (£55 billion/US\$69 billion) for sewer spill responsiveness including the proactive jet-cleaning of 200 km of sewers annually
- Quadrupling pipe replacement from 25 km in 2021/22 to 100 km annually, worth R850 million (£36 million/US\$45 million) total over three years.

"Aside from improving basic services, and personal and community dignity, the scale of Cape Town's R43 billion (£183 billion/US\$227 billion) three-year infrastructure pipeline, bigger than Johannesburg and Durban combined, will create an estimated 135,000 jobs in the city over three years." said Mayor Hill-Lewis. ■

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PRIMUS LINE PARTNER DAYS 2023

More than 100 participants from 35 countries at the Primus Line Partner Days 2023

More than 100 guests from all over the world visited the company headquarters of Rädlinger primus line GmbH in Germany in September. The manufacturer of the Primus Line® rehabilitation technology for pressure pipelines invited its international partners to a three-day conference and networking event under the slogan 'Moving forward'.

The partners of Rädlinger Primus Line GmbH travelled from 35 countries. All of them experts in the field of pipeline rehabilitation, among them, many companies that use and install the Primus Line® system for projects in their countries. "It was important for us to show that we are continuously developing as a company. We do not stand still, we move forward!" said Peter Lischewski, Managing Director of the company founded over 20 years ago.

Moving Forward!

With the event, Primus Line now looks to take another step forward globally. After a evening get-together, the two-day lecture programme started the next day.

Learning from each other is an essential aspect of achieving this goal. Best practice projects of several partners showed possible applications of the technology and insights. In addition, the Heads of the 'Water International' and 'Oil and Gas' business units, Andreas Gross and Håvard Høydalsvik, informed visitors about innovations in the product portfolio, current delivery processes, sustainability efforts and projects in partner management. Björn Bergmann, Head of R&D, also presented the current status of all Primus Line certifications in the various countries. Other presentations dealt with cost planning for underground pipeline projects and the cleaning and inspection of pipelines. >

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Off-topic speakers
extended the varied lecture
programme



A test of strength in lifting the mug at the
Bavarian evening



Company owner Werner Rädlinger
tapping the first barrel



In order to make progress, it is necessary to look beyond one's own nose. For this purpose, the owner of the oldest inn in the world was brought on board as a guest speaker. Muk Röhr, owner of the Röhr restaurant, told how to lead a family business in the eleventh generation into the future, about risks, setbacks and successes.


Dr Mark Knight from the University of Waterloo and Rouha Hussaina from ERC Evolution also provided new input. Their presentations dealt with the topics of sustainability and CO² reduction. The speakers addressed the contribution of Primus Line® as a trenchless rehabilitation technology for CO² reduction in pipeline rehabilitation and the steps the enterprise is taking to neutralise its own ecological footprint.

Project of the Year Award

At the end of the lecture programme, the conference participants voted on the 'Primus Line Project of the Year'. Six best practice projects were up for selection. The project to rehabilitate a 10 km-long crude oil collection pipeline in Great Britain, carried out by Danphix S.p.A., came out on top. The demanding project placed special challenges on the pull-in and connector technology, which required individual solutions. This is the second time that CEO Arnold Cekodhima has secured this award. >

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Insight behind the scenes:
Guided tour through the
Primus Line production plant

Networking And Social Programme

A good network among each other is also crucial for the success of Primus Line. That is why the programme went far beyond purely technical presentations. Table football, a hearty Bavarian evening programme and much more invited people to forge closer ties, exchange ideas and get ambitious plans off the ground, even away from the business talks. The event programme was rounded off by a tour of the production plant in Weiding and the new logistics centre in Chammünster.

The Primus Line Family Is Growing

"Our guests felt very comfortable here with us. For us, the Partner Days are extremely important. They strengthen the cooperation with our partners and thus decide on the course for the coming years," explained company owner Werner Raedlinger.

The last event of this kind was five years ago. "From the large number of participants, you can see how the international Primus Line family has grown during the Corona period," said Werner. The company, with its four international branches, has visibly coped well with the challenges of this time and their meaning for international cooperation.

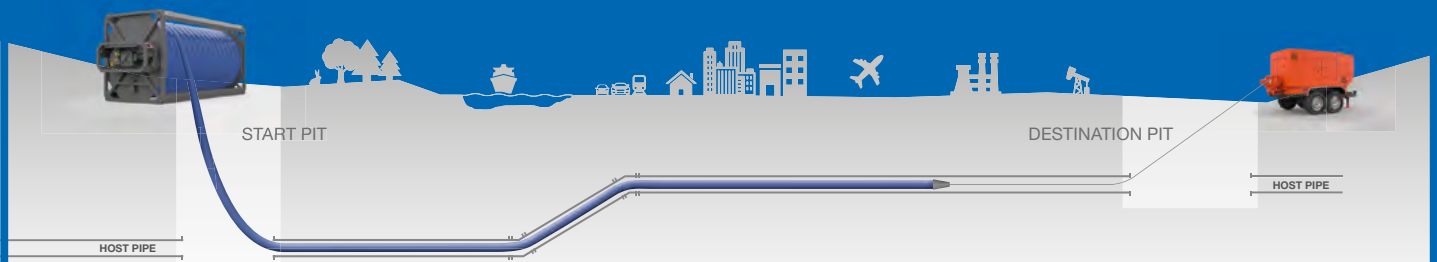
The company also wanted to celebrate that at this event. "My belief and vision in and of Primus Line has always been great. I was always convinced that Primus Line would make it internationally. Now it shows what a good path we are on." Werner concluded. ■

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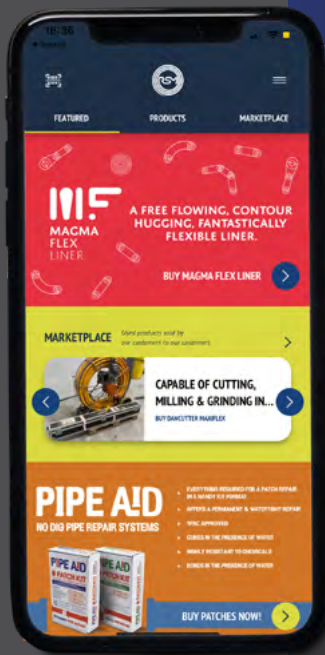
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“We have created a hub not only for the CIPP industry, but for the whole wastewater industry”

From its beginnings, RSM has prioritised innovation and technology and is delighted to announce the upgraded version of its mobile app, a first for the UK water industry, with plenty of great features such as an online shop, trading network, recruitment section and interactive calculators.

The app's easy-to-navigate online shop contains RSM's core range of CIPP materials and equipment, available for purchase for next day delivery. It also contains a 'learn' section with informative videos and documentation for each product, such as technical and safety data sheets.

The marketplace is a quality-controlled space in which users can advertise and purchase used CIPP equipment. This is a completely free of charge service and is a great way to sell unwanted equipment when looking to upgrade an equipment fleet.

The app also has the facility for employers to create and post job advertisements to be seen by potential candidates within the CIPP market. This is a fantastic feature that guarantees the job advertisement will be seen by the right people. Users looking for employment can find industry-specific jobs and obtain all required details to apply directly through the app.

RSM's previous app's main function was its resin and cure time calculators, which have been upgraded to make life easier on-site. The calculator section encompasses a variety of features, inclusive of resin consumption calculators, cure time calculators and liner technical details.

Make sure advertisements are seen by the correct audience by advertising within the app – the app offers two different types of advertising spaces which are shown on the product homepage, marketplace, and recruitment pages to ensure maximum coverage.

RSM's Sales Director, Phil Steele, commented: “We have created a hub not only for the CIPP industry, but for the whole wastewater industry as our new and improved app incorporates a multitude of features easily accessible from your mobile phone.”

The app is completely free to use and is available for download for both Apple and Android users now, simply search for 'RSM' in the app store. ■



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BLUE LIGHT UV LINING OFFERS GREATER EFFICIENCY TO GLANVILLE TRENCHLESS

Preparing a
Blue Light lining
installation

Thames Water has awarded civil engineering and infrastructure specialist Barhale a £16.8 million contract to upgrade an important water trunk main running through the London Boroughs of Barnet and Enfield.

Glanville Trenchless of Plymouth, UK has successfully undertaken a series of demanding lining schemes recently, after taking a significant step forward by acquiring the Blue Light UV Lining System, enhancing efficiency, and delivering outstanding results for its lining projects.


The team introduced the cutting-edge Blue Light UV Lining System in July (2023). Since its implementation, this groundbreaking technology has been employed in numerous lining schemes, consistently yielding high-end results, remarkable durability, and significantly reduced on-site time.

Among the notable recent accomplishments is the successful completion of the Dulverton Water Fit Scheme, in Somerset, UK. Tasked with lining multiple pipes within the Dulverton catchment, the team delivered exceptional outcomes, showcasing an expertise and commitment to excellence. >



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Curing a Blue Light liner



Monitoring the installation process

Prompt action was required to address groundwater infiltration in a sewer pipe. Glanville Trenchless opted for a trenchless solution using CIPP lining due to accessibility and the need for swift rehabilitation. This approach effectively sealed joints and defects along the entire pipe length, preventing groundwater seepage. To reinforce the pipe and mitigate future water ingress, the LED UV system was employed. Despite its slim 4 mm thickness, the chosen lining material proved remarkably durable and efficient in preventing water infiltration.

To ensure a seamless workflow, the team strategically positioned additional manholes to access the underground sewers. One manhole was in a garden, while the second was located in a lane serving twelve houses.

Preserving lane accessibility was paramount in shaping the approach. However, a small bridge over a stream posed a challenge, demanding portable equipment and a minimal installation footprint. By employing essential tools like the LED UV system, the team streamlined operations, efficiently completing the job to ensure convenience for the residents.

Through the successful implementation of the Blue Light LED UV system and a strategic approach, the Trenchless team effectively addressed the issue of groundwater infiltration in a 48 m long, 225 mm diameter clay sewer pipe.

The focus on portability and minimising equipment footprint allowed the team to complete the task efficiently, resulting in substantial time savings compared to conventional methods. Notably, the streamlined process minimised disruption to the access lane while ensuring the long-term stability of the sewer system. This achievement showcases Glanville's commitment to delivering durable solutions and maintaining operational efficiency. ■

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A Vermeer Mix Master™ HD (MXHD) reamer



VERMEER OFFERS NEW REAMERS AND SUB SAVER EPOXY

“These reamers represent a significant advancement in fluid management technology.”

The Vermeer Mix Master™ HD (MXHD) reamers are a new solution for opening horizontal directional drilling (HDD) boreholes in sandy loam, sticky clay and other reactive ground conditions. These reamers have a unique design that directs fluid to the cutting teeth where it is needed, maintaining bore integrity, and hydrating the bore path and cutting teeth. This allows for efficient slurry flow and cuttings removal. Threaded shaft sizes are available in a variety of sizes with cut diameters ranging from 6 in to 36 in (152 mm to 914 mm), making the Vermeer MXHD reamers ideal for small utilities and large-diameter HDD applications.

“The hydro distribution design of these reamer mixes cuttings with drilling fluid and discharges the resulting slurry out of the borehole with directional fluid control,” explained Cody Mecham, Vermeer Cutting-Edge product manager. “This helps manage the risk of the drill operator outrunning their mud during the reaming process. Moreover, fluid ports are always located near the cutting structure, regardless of the cut’s size, limiting areas where mud can accumulate on the plates.”

Vermeer MXHD reamers have an intentional plate angle and engineered open spaces that promote slurry passage and efficient movement of cuttings. On mid-size and larger reamers, plate openings and optimised angles also facilitate slurry flow and help move cuttings behind the reamer.

Small rotary teeth on the Vermeer MXHD reamers minimise overcutting while maintaining the integrity and accuracy of the bore wall. These teeth are strategically mounted in a spiral pattern on the plates, resulting in a smooth pullback and a clean cut. This geometry helps mitigate wandering and cuts an accurate bore path. >

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Vermeer's QuickLock™ two-part epoxy thread locking compound

Vermeer prioritises durability with the MXHD reamers, achieved by increasing plate thickness and adding reinforcing gussets to angled plates on mid-size and larger reamers. The efficient, progressive plate design steps the hole up to the full diameter, with initial plates increasing the diameter in 2 in (51 mm) increments while the final plates finish cutting in 4 in (102 mm) increments. These enhancements help the MXHD reamers be durable, accurate and productive.

"We are excited to introduce the Vermeer Mix Master HD reamers to the market," said Mecham. "These reamers represent a significant advancement in fluid management technology, and we are confident that they will provide our customers with the high-quality performance and reliability that they have come to expect from Vermeer HDD tooling."

Further to this, the Vermeer QuickLock™ two-part epoxy thread-locking compound stabilises threaded connections between the drive chuck and sub saver of a horizontal directional drill (HDD). It cures in as little as one hour, instead of the industry-standard 24-hour period, so HDD crews can get back to drilling quickly after swapping out the sub saver.

Vermeer Cutting-Edge Product Manager Cody Mecham explained: "In the past, HDD crews often chose to wait until the end of the shift to replace a worn-out drill sub saver because of the time it takes traditional thread-locking compounds to cure. With Vermeer QuickLock epoxy, new crews can replace the sub saver, go to lunch, and get back to drilling. This not only helps crews work efficiently but can help prevent thread damage to drill rods because worn sub savers are being replaced sooner."

Vermeer QuickLock epoxy comes in a convenient 2.3 oz (65.2 g) double-section plastic pack that keeps the resin and catalyst separate. It can be quickly mixed within the pack before applying to the threaded joint. It is zinc-free and has a shelf life of up to six years, compared to the normal six-month shelf life of many other thread-locking compound products.

"The extended shelf life and quick cure time make it simple for crews to maintain the sub saver and maximize the life of their drill rod threads," said Mecham. "It is an economic and durable option for threaded tooling connections that require a strong permanent bond." ■



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QUAD-C MANAGEMENT INVESTS IN VORTEX COMPANIES

Vortex offers training facilities as well as trenchless products and services

Quad-C Management, Inc. (Quad-C), a leading middle market private equity firm, recently announced it has closed on an investment in the Vortex Companies, a global provider of trenchless infrastructure rehabilitation products and services.

Vortex is split into two divisions, offering both trenchless infrastructure rehabilitation contracting services and products. Vortex Services operates in 12 strategic locations throughout the U.S. and Europe. Vortex Products maintains two U.S. facilities. Its Sandy, Utah facility formulates, manufactures, and distributes geopolymers, hybrid mortars, polymerics, and resins; while the other, located in Greenville, South Carolina fabricates, trains, and sells sewer robotics, monitoring technology, and installation equipment.

Formed in 2015, Vortex is currently led by its co-founder and CEO, Mike Vellano, who will continue in that capacity. "We are excited to partner with Quad-C to accelerate our growth at Vortex," said Vellano. "We have been seeking a partner with a similar mindset and history of working with companies on an ambitious expansion path."

"Quad-C is very excited to add Vortex to its portfolio. Mike and his management team have done an incredible job of building a profitable company in an extremely competitive environment, with a sustainable growth model," said Tom Hickey, a Quad-C Partner. "We believe Vortex will be a great fit for Quad-C, as we are very focused on the specialty products and services sectors and we have a long history of successfully partnering with privately held, entrepreneurial minded businesses." ■



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VORTEX COMPANIES ACQUIRES LINING DIVISION LTD

The Vortex Companies (Vortex) recently announced the acquisition of Lining Division Ltd (LDL), as it continues to broaden its footprint across the Atlantic. Lining Division Ltd, a leading installer of CIPP pressure liner for rising sewer mains (force mains) and geopolymer mortar for structural manhole and chamber rehabilitation, complements Vortex's products and services growth model. "LDL has always been a quality-oriented business and has an excellent reputation with its customers," stated Mike Vellano, CEO of the Vortex Companies. "We believe the combination of our technologies, materials, and financial resources will help LDL extend its reach throughout the UK."

In 2009, Roy Page and Darren Morgan-Owen, founded Lining Division Ltd with the purpose of partnering with contractors in need of a trenchless lining service to conduct relining applications in wastewater lines. As the company grew, Paul Brooker came on board to lead its operations initiatives. Collectively the three principals built a solid business with an excellent reputation. Both Page and Morgan-Owen plan to transition out of the business over the next few months. "We could not have placed LDL into better hands and will follow the company's success with fondness," said Page, Company Director.

It is no secret that England's water and sewer infrastructure needs repair. "We recognised an opportunity to provide a valuable service to contractors and local water authorities that had embraced pipe relining as a cost-effective alternative to traditional pipe replacement. With Lining Division, a part of Vortex and Mr. Brooker as our partner, we will be in a better position to expand our products and services," added Quin Breland, Managing Director, Vortex Europe. ■



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CAPPAGH MAXIMISE BUSINESS WITH BRAWO MAGNAVITY LED CURING.

The significant investment from Cappagh in LED Curing is continuing to maximise capability of their Lining Division but also add value to their client.

Six months ago, Cappagh Group was the first organisation in the UK to purchase two Brawo Magnavity LED Lining Systems from S1E as they deliver trenchless solutions to Thames Water for the next eight years.

Over the past six months Cappagh have continued to utilise next generation light curing and been leading the way with their ever-growing Lining Division team.

Dean Hansford, Head of Trenchless Innovations, at Cappagh Group said, "The Brawo Magnavity LED lining system has been ticking all the boxes. We wanted a solution that had a small footprint and was easy to manoeuvre, caused less customer disruption and was environmentally friendly, and of course, simple to use and delivered high-quality results too."

"We have increased our productivity on site since using our new LED lining systems and it is enabling us continue to provide customer confidence in us and the products we use."

The first field day saw the new Magnavity LED curing system with Cappagh Group go

as smoothly as the Lining Operations Manager, James Shaw had hoped. 21m of 100mm Pitch-Fibre Pipe with areas of severe deformation was successfully re-rounded and lined to leave it fully serviceable and flowing free.

The time on site for this type of lining work was drastically reduced as the inversion and cure only took two hours to complete. Since, Cappagh's Lining Division have continued to rehabilitate and repair multiple pipelines in the South of England on the Thames Water Network, including 25m of 150mm Foul Water sewer located down a very narrow road affecting multiple dwellings in Oxford.

The Brawo Magnavity is an easily transportable system with a modular, lightweight construction at 60kg, and only needing manhole entry, enabling the team to navigate this project as they needed to completely remedy the sewer as it was on the verge of collapsing.

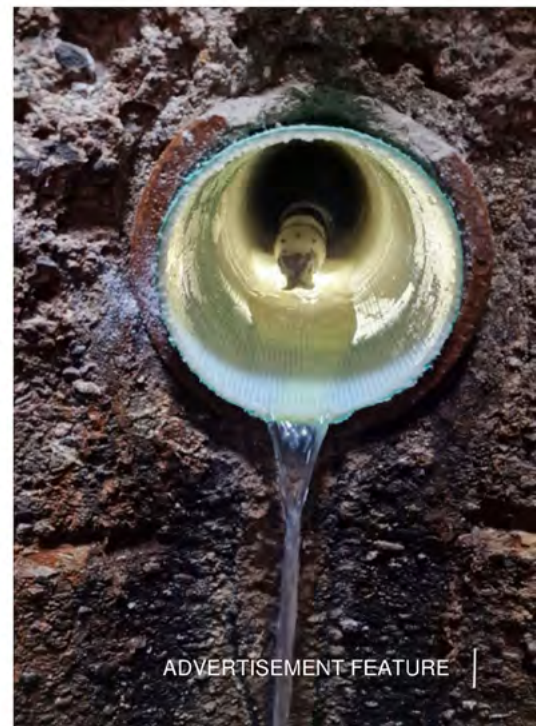
The compact LED curing machine from BRAWO Systems, is capable of curing the range of flexible Brawo® liners in pipe diameters of DN70 to DN300. The system saves time and effort as the unique LED heads allow simultaneous retraction with inversion of the liner, curing is thus carried out immediately after installation.

Terry Ingleby, General Manager at S1E, said: "This has been a fantastic venture to

be a part of with Cappagh Group, and Brawo Systems GMBH. S1E have been part of every stage of the process, and we've continued to be a line of support for the Lining Division."

"The Brawo Magnavity LED lining system is the perfect alternative to traditionally cured liners, due to its ability to reduce risks on site and at the same time drastically increasing the productivity of the lining teams. It is great to see it's continuing to deliver great results on site and provide more trenchless opportunities at Cappagh."

FOR MORE INFORMATION ON THE BRAWO MAGNAVITY: WWW.S1E.CO.UK



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PIG AND SVI SHOWCASE INNOVATIONS

A variety of equipment was displayed and demonstrated at the Showcase

Recently, the UK organisations Pipeline Industries Guild (PIG) and Steve Vick International (SVI) came together to host an exciting event titled 'The Transition from Gas to Water Showcase'. This collaboration, featuring a range of pioneering products and techniques, signifies a significant stride towards breaking down industry boundaries and forging connections between the worlds of gas and water.

The event went beyond mere discussion, bringing innovation to life with live demonstrations of equipment that has successfully made the transition from gas to water applications. Among the products showcased were:

- Hexi Trailer: A revolutionary transport and dispensing system capable of handling 63 to 90 mm diameter coils of all lengths up to 500 m or 150 m of 125 mm diameter PE pipe. >



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Demonstrations underway at the Showcase



Visitors view exhibits at the Showcase event

- **Perpetual Pipe Pusher:** A digger attachment engineered to continuously insert PE pipe ranging from 63 mm up to 180 mm diameter. Utilising hydraulically driven rubberised rollers, it achieves remarkable insertion speeds of up to 25 m/minute.
- **Rapid Rotary Cutter:** An innovative circumferential cutter designed for steel, ductile, and cast-iron mains with diameters of up to 300 mm/12 in.
- **PE Pipe Cutter:** A precision circumferential cutter engineered for swift and safe cutting of large diameter PE pipe in a single rotation.
- **The Pipe Handler:** The original digger-mounted pushing machine designed for Tier 2 mains. It excels in inserting and manoeuvring sticks of PE pipe ranging from 250 mm up to 900 mm diameter and is compatible with 5 to 11 t diggers.

One standout success story from the showcase was the remarkable performance of SVI's Grout Filling services within the water industry. Provided as a Contract Service, Grout Filling has consistently excelled in sealing large diameter utility mains, whether they are being inserted or abandoned, and it continues to gain significant attention for its contributions to the sector.

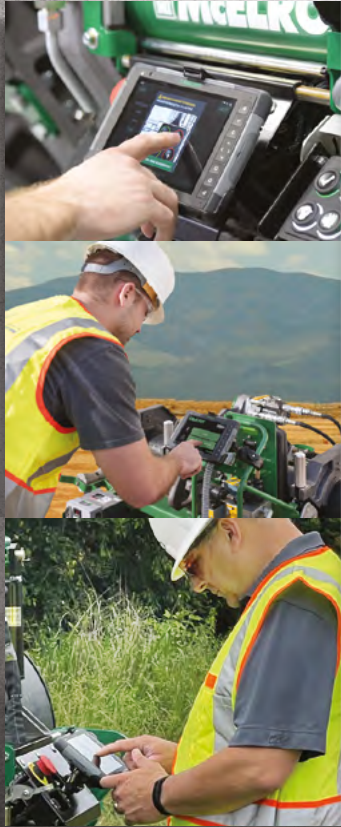
The event drew an enthusiastic crowd of industry professionals and stakeholders who joined in celebrating these innovative advancements. This collaborative effort between the Pipeline Industries Guild and SVI exemplifies a commitment to building bridges and creating a brighter future for the industry as a whole.

As the journey of innovation continues, both SVI and the Pipeline Industries Guild invite interested parties to stay tuned for more exciting developments on the horizon. ■



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PREVIEW TO THE UPCOMING NO-DIG ROADSHOW 2023

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 BUCKHURST PLANT HIRE LTD
 DCR INSPECTION SYSTEMS LIMITED
 DIE DRAW LIMITED
 HERMES TECHNOLOGIE GMBH & CO. KG
 HY-RAM ENGINEERING CO LTD
 IMS ROBOTICS UK
 LATERAL REPAIRS UAB
 MAMMOTH-MTS
 OCU GROUP LTD
 PICOTE UK LTD
 PROKASRO MECHATRONIK GMBH
 PUBLIC SEWER SERVICES LTD
 RADIUS SUBTERRA SYSTEMS
 REINERT-RITZ GMBH
 RELINEEUROPE GMBH
 RSM LINING SUPPLIES GLOBAL LTD
 RSP UK SUCTION EXCAVATORS LTD
 S1E LIMITED
 STEVE VICK INTERNATIONAL
 STOCK RENTALS LIMITED
 SYNTHOTECH LIMITED
 TRACTO TECHNIK UK LTD
 UIS (INNOVATIVE UTILITY TECHNOLOGIES) LIMITED
 VORTEX EUROPE LTD

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Wednesday 29 November 2023, Tortworth Court.

The anticipation is building, and the excitement is palpable as the date for the No-Dig Roadshow 2023 draws near. The underground infrastructure sector is abuzz with the upcoming event, promising a comprehensive showcase of cutting-edge technologies, insightful seminars, and a platform for networking that's second to none.

Embracing Innovation

The No-Dig Roadshow 2023 is set to be a playground for innovation. It will feature a diverse range of exhibitors, each offering a glimpse into the future of trenchless technology. From advanced drilling equipment to state-of-the-art pipeline inspection technologies, this event will be a treasure trove of industry innovation. Over 30 leading companies will be on hand to discuss solutions to underground infrastructure challenges. So come along and chat with industry specialists on hand to help, after all seeing is believing.

The Roadshow features some amazing partners and Sponsors, all with groundbreaking ideas that will shape the future of our industry. >

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Visitors 'on stand' at a previous Roadshow event

Knowledge Exchange

The heart of the roadshow lies in its programme, structured to create an educational atmosphere that encourages the exchange of information and experiences while networking with like-minded colleagues. Experts from round the world gather to share their experiences and insights, covering a wide spectrum of topics. Attendees will have the opportunity to deepen their understanding of trenchless technology, learn about the latest trends, and explore practical solutions to industry challenges.

Networking Extravaganza

One of the most invaluable aspects of the No-Dig Roadshow is the unparalleled networking opportunities it provides. Industry professionals, experts, and enthusiasts will come together to share experiences, establish connections, and forge lasting relationships. The event will serve as a hub for knowledge exchange and collaboration.

Sustainability in Focus

In an era of increasing environmental awareness, the No-Dig Roadshow will place a strong emphasis on sustainability. The event will highlight the role of trenchless technology in reducing environmental impact by minimising excavation and energy consumption. It is a reminder that innovation can be a force for good, promoting a greener and more sustainable future.

The No-Dig Roadshow 2023 promises to be more than just an event, it is a window into the future of underground infrastructure. As the event approaches, excitement is building, and the industry is abuzz with anticipation. Stay tuned for our comprehensive coverage of the No-Dig Roadshow 2023, where we will bring you the latest updates, insights, and highlights from this groundbreaking event. Get ready to be inspired, informed, and captivated by the world of trenchless technology and its potential to reshape the future of infrastructure development. ■

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Visiting the No-Dig Roadshow is **FREE TO ATTEND**.
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The No-Dig Road Show series is organised by Westrade Group Ltd and supported by the United Kingdom Society for Trenchless Technology (UKSTT)

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COMPRESSIONFIT ADVANCES INTO XXL PIPELINE MARKET

By Todd Grafenauer, Education Director, Murphy Pipelines

Insertion Pit during a 56 in (1,422 mm) diameter HDPE CompressionFit project

The principle of CompressionFit was born of necessity and developed over 40 years ago by British Gas and United Utilities (known as Swagelining or die drawing) to address the problem of failing pressure pipeline systems that were buried and entangled with other utilities throughout historic urban areas. At the time, the intended market was to replace distribution mains from 4 in through 12 in (100 mm through 300 mm) diameter. As the technology progressed through years of Research & Development and successfully completed projects, the method crossed into many pressure pipeline markets including water, sewer force main, mining, hydrocarbons, chemicals, bulk products, and gas distribution. The technique was utilised for replacement of ageing pipes of any material in order to extend life of the asset, or new pipelines onshore and subsea as alternatives to a corrosion allowance or use of a CRA pipe material. >

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A 56 in (1,422 mm) diameter pipe string ready for the CompressionFit process



Long section of 48 in (1,220 mm) diameter HDPE pipe during installation with the CompressionFit process



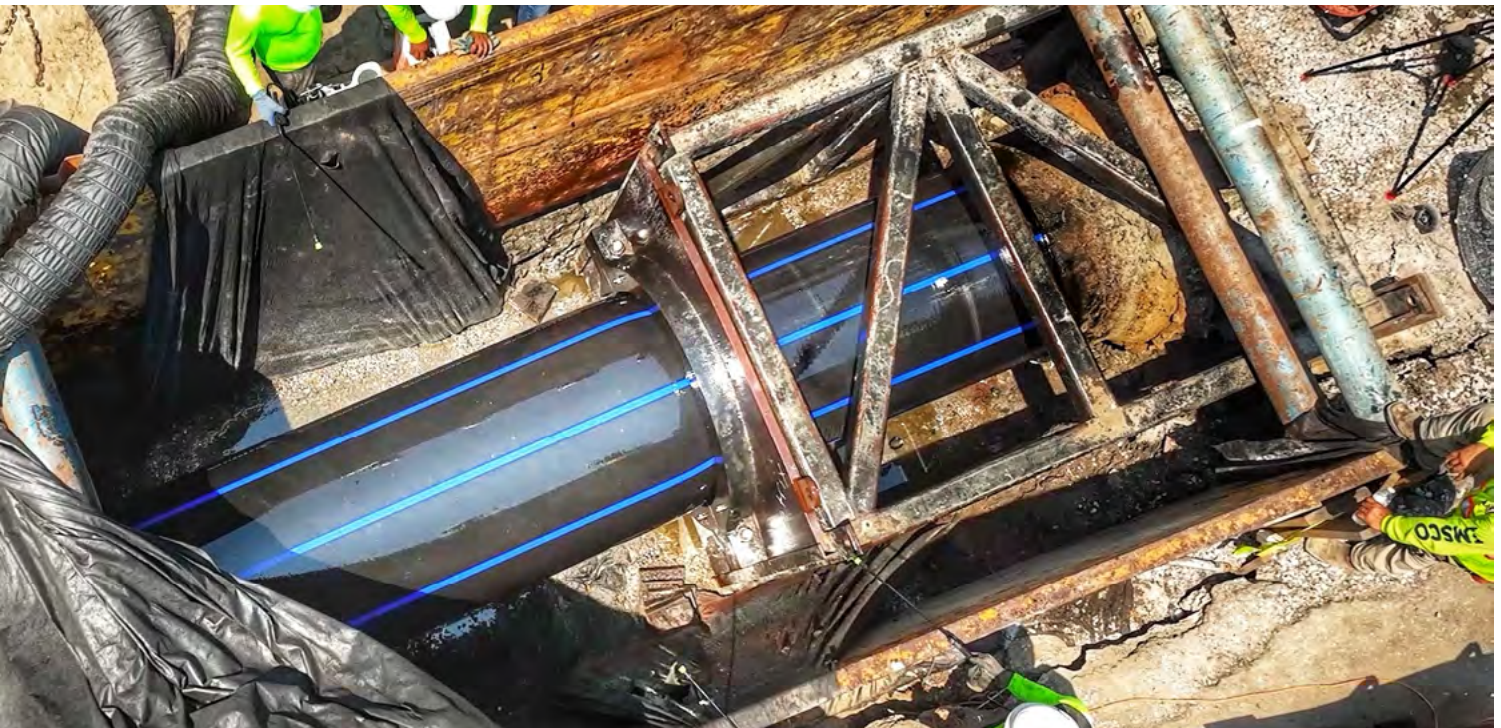
Limited Growth

By the mid-1990s, CompressionFit began to advance into larger diameters around the globe, including a 36 in (915 mm) diameter water transmission main replacement project completed for the Los Angeles Department of Water & Power (LADWP). However, a missing element of explosive growth was due to the lack of education and large resumé of completed projects. With cities taking a conservative approach due to the high responsibility of their infrastructure, the CompressionFit method began the slow process of being implemented as a proven trenchless technology. Quite simply put, very few engineers or utility departments were aware of the method. Over time, an increasing number of projects were successfully completed, building an impressive resume that began to catch the attention and curiosity of utility owners. This proven track record generated interest and 'normalized' the CompressionFit process and the momentum began to increase.

Even as interest grew and an increasing number of larger diameter projects were undertaken, the lack of availability of larger diameter HDPE pipe sizes and wall thickness remained a challenge. Many of the large diameter projects historically installed thinner walled HDPE pipe. This was due to either unavailability of thicker walled HDPE pipe produced within the necessary timeline, or the need to reduce the pulling force to match the equipment that was available to install the HDPE. >

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Installing 48 in (1,220 mm) diameter DR 17 pipe using the CompressionFit process



A 56 in (1,422 mm) diameter HDPE pipe enters the insertion pit



Results – The HDPE pipe forms a tight compression fit to the host pipe after installation

However, fast forward to today and the CompressionFit technology now has a significant track record in America. While Murphy Pipelines experience with the method began with President Andy Mayer's British Gas work during the early days of development, it has been over the past 15 years of tremendous dedication to education of the technology that set the stage in the US. While early work may have included pilot projects, today's work includes award winning projects such as ASCE and Trenchless Project of the Year awards. Additionally, multiple standards now exist, including ASTM F3508 which governs the method of CompressionFit. This has allowed conservative decision makers the ability to make informed decisions on the selection of the technology.

Today almost all diameters and wall thicknesses of HDPE pipe are available. CompressionFit continues to advance in its ability to replace large diameter water transmission and sewer force mains. While the technology forges ahead in both larger diameter and thicker HDPE walls, the method remains constant in delivering expedited project schedules, 92% less excavation than open cut and provide a structural Class 5 or Class 6 solution (per ASTM F3508). "We are seeing the CompressionFit technology selected by some of the largest water and sewer programmes in the world. The method delivers value to the overall programme by maintaining the community's way of life during construction and helping to reduce upfront planning and engineering as the technology follows the existing utility path." commented Andy Mayer, President of Murphy Pipelines.

With advancements in polyethylene and pipe extrusion technology, HDPE pipe is now made up to 138 in (3,500 mm) diameter in the US with a wall thickness over 6 in (150 mm) (Agu America). This allows the CompressionFit and Slip Lining methods the ability to replace water and sewer force mains in any size and pressure class.

This also benefits the Slip Lining process, one of the oldest methods in trenchless. Slip Lining replaces a failing large diameter main by installing a smaller sized HDPE pipe. Potential limitations include a reduced cross-sectional area due to installing a smaller sized pipe, thus reducing flow rates and capacity. Hydraulic calculations need to be considered. For water and sewer projects that need to maximise the Internal Diameter, CompressionFit HDPE pipe lining can add value over Slip Lining. >

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56-inch HDPE butt fusion prior to CompressionFit process

How does CompressionFit work?

Governed by ASTM F3508, the CompressionFit HDPE pipelining technology specifies an HDPE pipe with an outside diameter larger in size than the inside of the host pipe to be replaced. After the HDPE is butt fused to correspond to the pull distance, the pipe is pulled through a reduction die immediately before entering the host pipe. This reduces the HDPE pipe temporarily below the ID of the host pipe allowing it to be inserted.

While the towing load keeps the HDPE under tension during the pull, the pipe remains in its reduced size. The HDPE remains fully elastic throughout the reduction and installation process. After installation, the pulling load is removed. The HDPE pipe expands until it is halted by the inside diameter of the host pipe. The effectively natural 'tight' or 'compression fit' exchanges an existing failing pipeline with a composite pipe in its place.

What are the Class 5 and Class 6 Designations per ASTM F3508?

Class 5 designation provides a dual wall composite pipe in place. When it is deemed that there is value remaining with the host pipe, the combination of the new HDPE plus the value of the host pipe provides a new design life. Class 6 designation provides an unequalled independent liner. The failing host can continue to deteriorate and disappear as the liner stands alone. The method uses the same HDPE pipe and wall thickness installed by other methods such as open cut, directional drilling, or pipe bursting. "The infrastructure value that the method provides to these high-volume flow application assets is significant. These include providing well over a 100-year new design life, corrosion resistance for life, ductility of withstanding water hammer/pressure surges, smooth interior wall (C-factor of 150) increasing operating efficiencies and lowering operating costs and its resistance to extreme weather (freeze/thaw and dry/wet cycles)." commented Richard Crow, Director of Engineering and Special Project with Murphy Pipelines. ■

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SVI CONTRIBUTES TO EUROPE'S LARGEST INFRASTRUCTURE PROJECT

Grouting for
Anglian Water with
JN Bentley

In the ongoing journey of Europe's most extensive infrastructure project, Steve Vick International (SVI) once again played a crucial role in ensuring the success of Anglian Water's visionary project. As part of the final and most challenging phase of this project, JN Bentley appointed SVI to provide a grout filling operation that showcased the adaptability and versatility of its expertise.

Project Overview

The multi-phase initiative, led by Anglian Water, aimed to create a network of interconnected water pipelines stretching across hundreds of kilometres, ensuring a continuous flow of fresh, clean water across the region. This ambitious endeavour represents one of the largest infrastructure projects in Europe, a testament to its scale and importance in safeguarding the future water supply.

Phase three of this colossal undertaking involved constructing a network of interconnecting pipelines from Grantham to Peterborough, a critical link in the chain to secure the region's water supply. This stage presented unique challenges, primarily due to its remote location, which demanded a specialised solution to fill the annular space between the 800 mm diameter steel pipe and the 1,200 mm diameter sleeve. >

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Grouting for Anglian Water with JN Bentley



The SVI Grout Filling Operation

SVI, renowned for its expertise in grout filling operations across various industries, was entrusted with the task of ensuring the integrity and longevity of this vital water infrastructure. Operating in the middle of nowhere, with minimal access, SVI demonstrated the adaptability and versatility of its grout filling procedure.

The company's team deployed a manoeuvrable grout filling rig specially designed to navigate challenging terrains and remote locations. The task at hand was to fill the annular space between the steel pipeline and the sleeve, a crucial step in protecting the newly inserted water main from potential damage due to external factors such as the weight of the earth above or the intrusion of extraneous matter and animals.

The grout filling process was meticulously executed, ensuring the structural integrity of the pipeline and the long-term protection of the sleeve. It exemplified SVI's commitment to delivering efficient, cost-effective and environmentally friendly solutions for critical infrastructure projects.

Alvaro Palacios, Site Agent at JN Bentley, shared his thoughts on SVI's contribution, stating: "We were faced with the challenge of filling the annular space in a remote and difficult location. SVI's grout filling process proved to be the flexible and adaptable solution we needed to overcome this obstacle. Their manoeuvrable grout filling rig and expertise made it possible to protect the integrity of our water pipeline, even in the most challenging conditions. SVI's commitment to excellence and innovation was evident throughout the project."

In the final phase of Europe's largest infrastructure project, Steve Vick International once again played a pivotal role in ensuring the success and longevity of Anglian Water's visionary network of interconnected pipelines. SVI's adaptability, versatility, and commitment to delivering efficient solutions in challenging conditions showcased its dedication to safeguarding the future of clean water supply across the region. ■

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Svanbjörg Vilbergsdóttir was tasked by the government of Greenland to oversee small diameter pipe rehabilitation projects in hundreds of apartment buildings. She chose NuCure CCUV because it combined quality control with a fast and easy-to-execute process.

“I loved the simplicity of the NuCure UV system. And I like how fast UV works in our cold temperatures.”

“Once I learned that it also came with quality assurance documentation – I was sold! I can review the data, including before and after videos, to grade it and create a report right from the portal.”

“The training was excellent. And NuFlow Central offers training videos and support, so we can continue to learn on our own time. It’s a simple and easy system to work with, and easy to teach others.”

Svanbjörg Vilbergsdóttir
Consultancy - Ráðgjöf og eftirlit

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Ridgid recently announced the launch of two new pipe inspection cameras, the MicroDrain APX and NanoReel.

The RIDGID SeeSnake® microDRAIN APX™ with TruSense is a well-suited pipe inspection camera for small pipes and conduits with tight turns. The advanced, high-flexibility push cable and a small-diameter camera design allows inspection through small-diameter pipes, p-traps, and small-radius bends that other inspection systems often cannot inspect. It offers enhanced camera functionality including TruSense technology and auto-image flip for bright, clear in-pipe images and on-screen camera angle and image orientation feedback. The microDRAIN APX includes a kickstand for use with the CSx Via™ and offers enhanced stability.

The RIDGID SeeSnake® NANOREel inspection camera opens up new possibilities in drain inspection with the smallest-diameter camera and most flexible push cable of all SeeSnake® systems. This reel is ideal for long-run, small-diameter runs. Applications where only borescopes could reach can now be inspected using the NANOREel inspection camera. Boiler tubes, supply lines, sprinkler systems and a wide array of specialty applications can be inspected using the NANOREel inspection camera. ■

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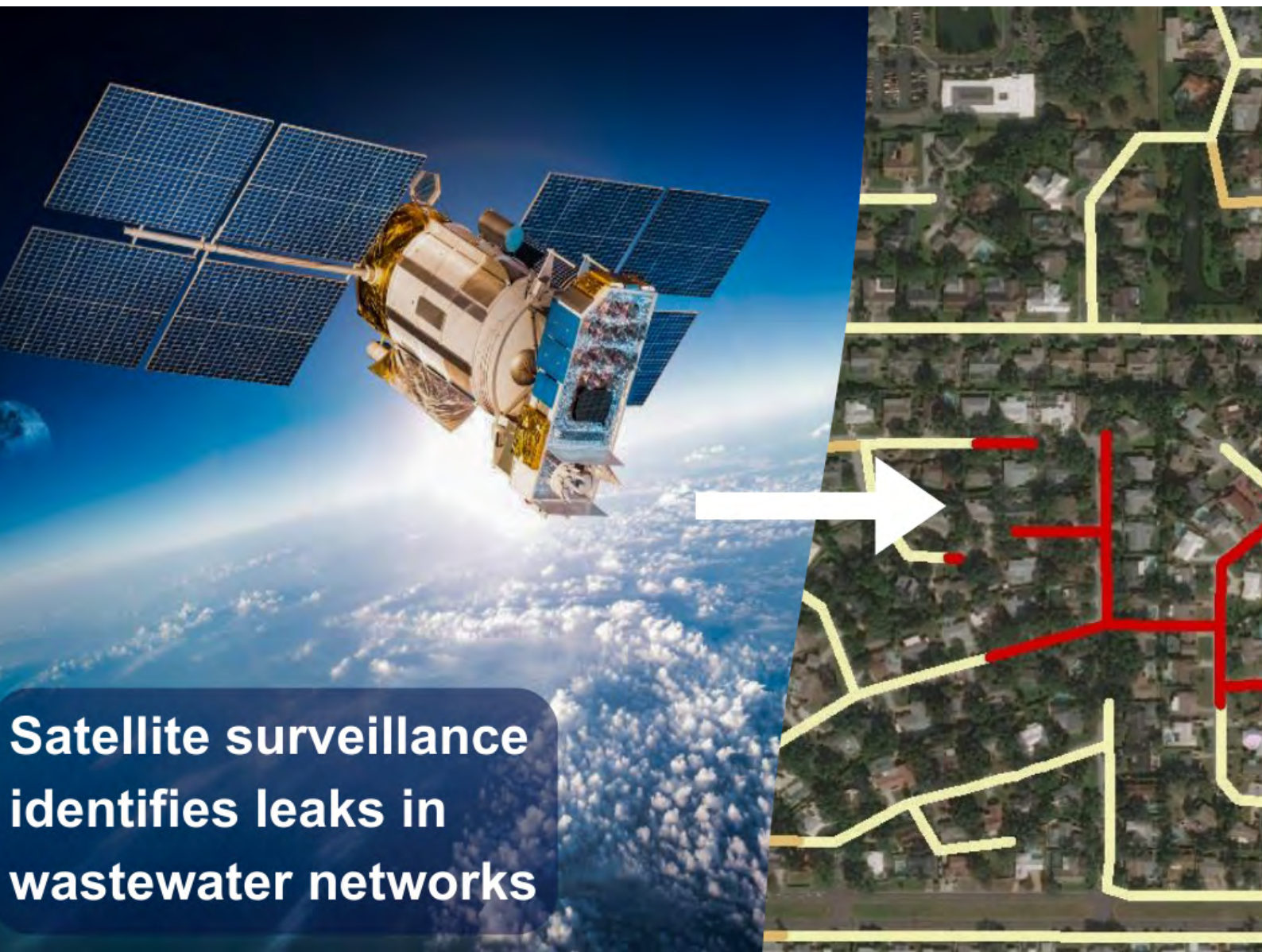
INTERNATIONAL NO-DIG DUBAI 2024

ISTT's 40th International No-Dig Conference and Exhibition

5-6 November 2024

Jumeirah Beach Hotel Dubai





**Satellite surveillance
identifies leaks in
wastewater networks**


SUEZ AND ASTERRA OFFER SATELLITE SURVEILLANCE FOR WASTEWATER NETWORKS

SUEZ, leader in circular and digital solutions in waste and water services, has announced it has partnered with ASTERRA, a global leader in satellite-based solutions, to enhance their advanced joint offering in the UK with the introduction of satellite surveillance for leak detection in wastewater networks.

Robust surveillance of wastewater networks is crucial in environmental protection, particularly in safeguarding water resources and meeting regulations. Constant and accurate monitoring of wastewater impacts is essential for both water utilities and regulatory entities. >

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“Satellite surveillance in wastewater management offers a range of key benefits. It prioritises pipes for replacement and rehabilitation, preventing resources in vulnerable areas and neighbourhoods. Moreover, it mitigates sewer overflows, minimising the negative impact on bathing waters.”

SUEZ and technology partner ASTERRA have a proven history of successful satellite leakage detection service for water utilities in the UK and this wastewater leak detection solution further leverages this track record by revolutionising the leak detection landscape.

The patented satellite surveillance technology provided by SUEZ and ASTERRA, which uses L-Band Synthetic Aperture Radar (SAR) to detect the unique signature of wastewater from space, covers extensive land areas to identify potential leaks. Thanks to the Geographic Information System (GIS) files overlaid with the satellite scans, the solution pinpoints potential leak locations and enables immediate investigation and repair by sending alerts on the water utilities' field crew mobile devices, allowing for a more proactive management approach.

Multiple scans with exceptional precision equip water utilities with a detailed view of pipe conditions, enabling operators to prioritise maintenance and allocate resources efficiently using computer algorithms and Artificial Intelligence. Apart from scoring pipe segments showing signs of subsurface leaks, the technology also identifies leak location clusters, enabling efficient maintenance tasks.

Satellite surveillance in wastewater management offers a range of key benefits. It prioritises pipes for replacement and rehabilitation, preventing resources in vulnerable areas and neighbourhoods. Moreover, it mitigates sewer overflows, minimising the negative impact on bathing waters. This comprehensive solution aligns with regulatory compliance, highlighting its importance in improving wastewater management and protecting the environment.

“Coming on the heels of our success in satellite leakage detection in drinking water networks for water utilities in the UK, with more than 260,000 km of pipes scanned and 83 million litres of water saved daily, we are excited to bring our customer one more innovative and efficient solution for water preservation. It is a non-invasive, cost-effective, and scalable solution that enables problem spots in sewer networks to be identified quickly and accurately, even in hard-to-reach areas.” said Mitch Donnelly, Managing Director of SUEZ Digital Solutions UK.

ASTERRA representative, Conor Foxall, stated: “We are proud to be able to help UK water utilities with their focus on wastewater leakage and make a positive impact on the environment.” ■



iINTERNATIONAL **NO•DIG** 2024 DUBAI

THE 40th INTERNATIONAL NO-DIG

INTERNATIONAL NO-DIG DUBAI 2024

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WELCOME FROM THE CHAIR



Ian Ramsay, Chair, UKSTT

Well for October we have some good news for the industry. It seems that all the pressure on Government from the public, rock stars NADC and UKSTT seems to give us a small stream of light at the end of the tunnel. OFWAT and the Government have announced that over £1.6 billion of new investment will be directed into vital infrastructure to improve the water quality of our rivers, lakes and coastal waters and secure future water supplies, the Government and Ofwat announced.

It follows a request from Defra to English Water Companies to accelerate investments between now and 2025 to tackle storm overflow discharges, reduce nutrient pollution from treatment works and address water resilience challenges.

This announcement comes ahead of the Government's Integrated Plan for Water, which will be published soon, and about time, and will set out how we can achieve cleaner and more plentiful water for future generations. The investment announced recently will ensure improvements are made more quickly to address the unacceptable levels of pollution in waterways and deliver for customers.

As part of the new package of investment, announced by OFWAT, companies will commit £1.1 billion to help eliminate harm caused by storm overflows. A further £400 million will be spent on water resilience schemes and £160 million to help reduce nutrient pollution.

This is the start of something. However, we need to focus on the implementation and the benefits coming to the membership in the form of projects and also the general public. I will be keeping a close eye on this and have several meetings with Government and associated groups coming up.

The negative side of course is how is this going to be paid for? Water bills! They will rise on average by £150 per year per household. Early days but at least something positive for the industry.

I have just attended the ISTT's International No Dig event in Mexico City and took part in the conference programme. It was great to catch up with the international trenchless family and I look forward to the next one in Dubai.

On a final note, I am really pleased with the number of entries we received for the forthcoming UKSTT Awards Dinner, especially in the Young Professional category. This year we have had the highest number of entries in that category and they are all of an extremely high standard.

Good luck to everyone and I look forward to seeing you there.

Ian Ramsay

UKSTT Chair

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JOIN THE UKSTT

Are you looking to make a difference in the field of Trenchless Technology? Do you want to be part of a leading organisation, supporting the advancement of science and practice in this field?

UKSTT is a not-for-profit organisation that was established to advance the science and practice of Trenchless Technology for the public benefit. It was founded in 1993 and since then has been dedicated to providing the best possible education and training opportunities for those in the industry. It is recognised by the industry as the authoritative source of information and advice on the best practice and application of Trenchless Technology.

UKSTT offers a range of webinars, conferences and Masterclasses that are designed to keep members up to date with the latest developments in the industry. It also provides access to experts in the field and offers a wide range of resources for members to use when planning projects, including a FREE technical enquiry service.

Joining UKSTT is a great way to get involved in the field of Trenchless Technology. By becoming a member, you will be part of a network of professionals who are passionate about pushing the boundaries of this industry. You will be able to stay informed of the latest developments and have access to the best resources available and have opportunities to network with other like-minded members and learn more about the industry. The organisation also provides a platform for members to share their knowledge and experience. This helps to ensure that the industry is continually evolving and growing.

UKSTT also acts as an advocate for members and the industry as a whole, promoting the best practice and use of Trenchless Technology. If you are passionate about Trenchless Technology and want to make a difference to the industry, then joining UKSTT is the right choice for you. By becoming a member, you will be part of a network of experts and have access to the latest developments in the field. You will also be able to share your knowledge and experience and help to improve the industry.

Join UKSTT today and make a difference. ■



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MEMBERSHIP SERVICES SUBCOMMITTEE REPORT

So what is the UKSTT Membership Services (MS) Committee? First and foremost, it is a dynamic and vibrant group of individuals from the UKSTT Council (we are also very modest), dedicated to serving the needs of our members.

As the name suggests, the Committee focuses on providing top-notch services to the members of UKSTT, ensuring that they have access to a wide range of benefits and opportunities. With a strong focus on membership retention and growth, this Committee (and its three Sub-Committees), works tirelessly to enhance the value of being a part of UKSTT, educating and promoting Trenchless Technology within the industry.

One of the key responsibilities of the MS Committee is to attract new members to join UKSTT. We actively promote the benefits of becoming a member, highlighting the numerous advantages that come with being a part of this prestigious society. From access to cutting-edge industry knowledge and research to networking opportunities with industry leaders, UKSTT membership opens doors to a world of possibilities.

We utilise various marketing strategies and platforms to reach out to potential members, showcasing why UKSTT is the leading authority in trenchless technology. In addition to attracting new members, the committee also focuses on retaining existing members by continuously improving and expanding the range of services offered.

We are constantly on the lookout for innovative ways to engage members, ensuring that they feel valued and supported throughout their membership journey. From helping organise and promote informative webinars and workshops to hosting exciting networking events, the Membership Services Committee ensures that there is always something valuable on offer for UKSTT members.

A key aspect of the Committee's work is managing relationships with Patrons. These organisations play a vital role in supporting the activities of UKSTT, providing expertise to further the Society's mission. The MS Committee works closely with Patrons to provide members with ample opportunities to showcase their innovations and services to a highly targeted audience.

Overall, the UKSTT Membership Services Committee's work is an essential pillar of support for main Council and for the Society's members. We strive to create an inclusive and thriving community for all Trenchless Technology professionals.

Whether it is through organising informative events or attracting new Patrons, this Committee plays a crucial role in enhancing the overall membership experience.

Of course, we are always open to new ideas, so please feel free to get in touch! ■

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Iain Naismith
Technical & Education
sub-committee Chair



What is your Green Footprint?

TECHNICAL & EDUCATION SUB-COMMITTEE REPORT

Thank you to those who have responded already to last month's request about information on the carbon footprint of trenchless vs traditional methods and how different trenchless methods compare. We know there is relevant information out there, but it is not easily located, so we want find out what is available, identify what is most relevant and signpost where it can be found.

Anglian Water/Affinity Water/Welsh Water have completed an Ofwat funded project 'Enabling Whole Life Carbon in Design' aimed at putting carbon at the heart of both design and governance decision-making processes and on an equal footing with cost.

There is a webinar on it on 4 October 11.00 to 12.00 – free to register here: <https://www.eventbrite.co.uk/e/enabling-whole-life-carbon-in-design-launch-tickets-722597818527>

As previously reported there has been a very good response to the call for submissions for this year's awards. This is now closed and judging is nearing completion. Following a very successful collaborative workshop on water industry standards and regulations in March we will be joining a follow-up meeting in October with FWA, BPF, Water UK Standards Board among others. The aim is to raise the profile of these necessary quality and assurance measures and address the involvement of the supply chain with the water and sewerage companies.

Working Group 2 Events – Chair Iain Naismith

Work continues on preparing the conference programme for the Bristol No-Dig Roadshow where Patrons are being asked to present on their trenchless needs and a Masterclass on CIPP for pressure pipe is being planned for later this year. The 2024 programme is starting to take shape.

Working Group 3 – Education, Client Organisations and Patrons – Chair Tim Sargent

We have held, in September, very positive meetings with representatives from universities and with Patron organisations to explore how best the Society can engage with to meet their needs and build new ways to educate their businesses and spread the word about all trenchless options. ■

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Some of the UKSTT team at a previous Awards Dinner



SETTING THE STAGE FOR EXCELLENCE



The prestigious UKSTT Awards Dinner, an event that signifies excellence and innovation in the world of trenchless technology, is just around the corner. As we prepare to celebrate the extraordinary achievements and contributions to the industry, let's take a sneak peek into what makes this event an eagerly awaited occasion.

Honouring the Best

The UKSTT Awards Dinner is a night to honour the trailblazers and innovators who have made significant contributions to the trenchless technology industry. It is a moment to applaud those who have pushed the boundaries of what is possible and showcased the immense potential of trenchless solutions.

Diverse Categories

One of the most remarkable aspects of the UKSTT Awards Dinner is the diversity of categories that recognise excellence. From groundbreaking projects that have revolutionised infrastructure development to individual awards for exceptional leadership and innovation, the awards offer a comprehensive overview of the industry's best talents.

Inspiring Narratives

The event is not only a platform for awards; it is a stage for inspirational narratives. Award winners and nominees share their stories of dedication, challenges, and triumphs. These stories serve as a source of motivation for everyone in the industry, reminding us of the remarkable journeys that have shaped the world of trenchless technology. >



Awards attendees enjoying the evening

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Networking Opportunities

The UKSTT Awards Dinner is not just a ceremony, it is a networking extravaganza. Attendees have the opportunity to connect with industry leaders, experts, and like-minded professionals. It's a space for the exchange of ideas, forging partnerships, and building valuable relationships that can further advance the industry.

Embracing Innovation

Innovation is the lifeblood of the trenchless technology industry, and the event serves as a showcase for the latest advancements and game-changing projects. From state-of-the-art equipment to groundbreaking construction techniques, attendees will get a firsthand look at how the industry is continuously evolving and pushing the boundaries of what is possible.

A Night of Celebration

The UKSTT Awards Dinner is a celebration of the industry's ingenuity, perseverance, and dedication. It is a night to applaud the accomplishments of those who have made significant contributions to the field and to be inspired by the limitless potential of trenchless technology in shaping a more sustainable and efficient future.

As the UKSTT Awards Dinner approaches, the excitement is building, and the industry is eagerly anticipating this extraordinary evening. Stay tuned for our comprehensive coverage of the event, where we will bring you the latest updates, profiles of award winners, and highlights from this unforgettable celebration of excellence in the world of trenchless technology. It is a night where the stars of the industry shine bright, and where the future of underground infrastructure is illuminated with innovation, achievement, and the potential to change the world. ■



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UKSTT AT NODIG DOWN-UNDER 2023



By Lynn Maclachlan

Attending the ASTT's NODIG Down Under 2023 event was a great opportunity to understand how other Societies run successful events outside of the UK. It was a great show and I am especially grateful to Trevor Gosatti, Ben Crosby and Jeff Pace from ASTT and Albert Shou (ISTT) for being so open and I leave Australia with fresh ideas for UKSTT.

Show review

Welcome Reception and Exhibition Opening – Taking place at the Queensland Gallery of Modern Art, this is a wonderful opportunity for attendees to get to know each other and spend time with colleagues and customers ahead of the exhibition and conference. ASTT President Ben Crosby opened the evening with a welcome speech thanking sponsors and exhibitors.

Conference: Better outcomes through trenchless – The conference focussed on three main themes: Rehabilitation, New Installation and Trenchless Services, Social and Environment. A panel session discussed the current and upcoming infrastructure opportunities within Queensland and debated the importance of trenchless technology and how it benefits the industry. >



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Exhibition – There were approximately 100 exhibitors all showcasing their products, many of whom were UKSTT members Australian counterparts.

What a great evening this was! Held at the Brisbane Convention and Exhibition Centre the NO-DIG Down Under ASTT Awards recognise innovation, advancements in technology, environmental benefits and occupational health and safety benefits in rehabilitation and new installation projects utilising trenchless technology. Six awards were presented during the evening.

Thank you!

Many thanks to everyone I met During NODIG Down Under but especially to Trevor Gosatti, Ben Crosby and Jeff Pace for your hospitality during the whole event. ■



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A MESSAGE FROM THE CHAIR

Hi ISTT members



Keh-Jian (Albert) Shou,
Chairman, ISTT



The Opening Ceremony for
International No-Dig Mexico

With my Best Wishes!

I believe many of you have experienced the very different International No-Dig in Mexico City which ran between 17 and 18 October, with around 60 papers and 50 exhibitors. Right before No-Dig Mexico, I attended the 2023 No-Dig Poland in Krakow, which was also a good one as on previous occasions. In addition, I will attend the 2023 No-Dig Turkey in Istanbul. Again, I must say the No-Dig business is extremely vibrant, especially in the emerging market countries. However, I will try my best to attend as many events as possible to encourage our Affiliated Societies.

For the International No-Dig Mexico, to encourage and allow more attendees, ISTT provided the concurrent Spanish translation. Right before the conference, the ISTT International Council Meeting was held successfully. At the Award Dinner, the ISTT awards, including Life Service Awards, ISTT Fellow, and Best projects were presented. In addition, the best of the student paper competition was awarded. I believe most of the attendees had a good time at the meeting and the stay in Santa Fe. It is worth noting that the performance of the All Souls' Day was definitely unforgettable and now has become part of the history of ISTT events.

As you know, we continue hosting the ISTT educational webinars, that can be replayed in the member space. We will have 1 or 2 more by the end of this year. Furthermore, we expect to have more practical webinars during 2024. ISTT is trying to provide more services to its Affiliated Societies through the website and other communication channels. To enhance our service, we are now doing a survey by the Outreach and Marketing committee, please feel free to provide your comments and suggestions. I will include your contributions towards our plan of action and make our society better and according to your expectations.

Keh-Jian (Albert) Shou
Chair, ISTT



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INTERNATIONAL NO-DIG MEXICO: A HISTORIC MILESTONE FOR TRENCHLESS TECHNOLOGY IN MEXICO



Awards at
International No-
Dig Mexico



The Awards ceremony
venue in Mexico

The International No-Dig Mexico 2023 conference and exhibition marked a historic first for the trenchless industry, becoming the maiden international trenchless event held in Mexico. As enthusiasts and experts gathered, the International Society for Trenchless Technology (ISTT) announced its distinguished Award winners:

No-Dig Award Winners:

- Academic Research Category: Lichang Wang and Wei Long, School of Geosciences and Info-Physics, Central South University, China, for their paper 'New Wall Protection and Drag Reduction Technologies for Long Distance Large Diameter Pipe Jacking in Complex Strata'.
- New Technology Category: Petra, for their innovative 'A Trenchless Multi-Tool: The Petra Platform'.

ISTT Fellows:

- Ian Ramsay, IRR Trenchless Consultancy, United Kingdom.
- Jean-Marie Joussin, Individual Consultant, France.

Lifetime Service Award:

- Mike King, SASTT (Southern African Society for Trenchless Technology).
- Ian Vickridge, UKSTT (United Kingdom Society for Trenchless Technology).
- Jeff Pace, (Australasian Society for Trenchless Technology).

A comprehensive review of their accomplishments and the broader implications for the trenchless industry will be detailed in an upcoming issue of Trenchless Works magazine. ■

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INTERNATIONAL NO-DIG 2023 MEXICO

THE 39th INTERNATIONAL NO-DIG

Conference and Exhibition
17-18 October 2023
Expo Santa Fe, Mexico

ISTT's 39th International No-Dig Conference and Exhibition

ISTT INTERNATIONAL NO-DIG MEXICO 2023 - A REMARKABLE SUCCESS IN UNDERGROUND INNOVATION

In the realm of infrastructure and construction, innovation is key to creating sustainable, efficient, and environmentally friendly solutions. No-Dig Mexico 2023, the premier event for trenchless technology and underground construction, recently took place in Mexico City and left an indelible mark on the industry. This two-day gathering brought together industry leaders, experts and enthusiasts to explore cutting-edge techniques, share insights and network with like-minded individuals. No-Dig Mexico 2023 not only showcased the latest advancements in the field but also underlined the significance of a sustainable, No-Dig approach to infrastructure development.

One of the highlights of No-Dig Mexico 2023 was the diverse range of exhibitors who showcased their products and services. Companies from all over the world presented innovative solutions in trenchless technology, including drilling equipment, pipe rehabilitation tools, and pipeline inspection technologies. This impressive selection allowed attendees to explore various options and gather insights into the state-of-the-art equipment available in the market. Moreover, it emphasised the global reach and importance of the event, creating an environment conducive to international collaboration and knowledge sharing. ➤

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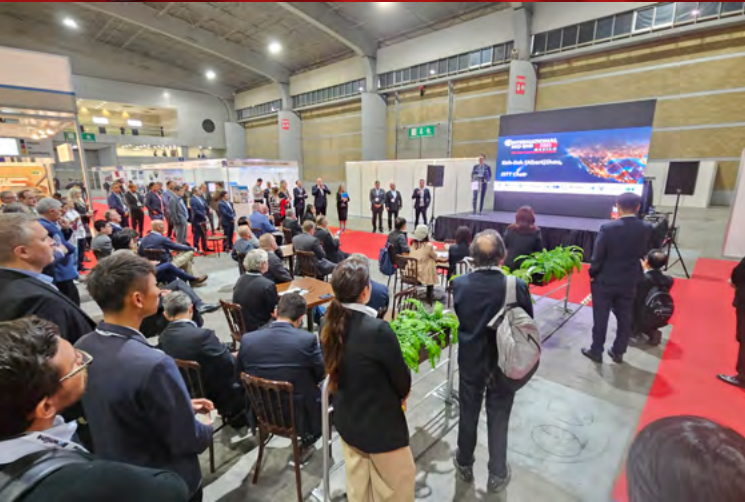


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The Opening Ceremony for International No-Dig Mexico



Attendees at one of the presentation sessions

The core of No-Dig Mexico 2023 was the enlightening workshop, seminars, and debates, which provided a platform for experts to share their knowledge and experiences. Attendees had the opportunity to attend in-depth sessions on topics such as horizontal directional drilling, microtunnelling and pipe rehabilitation techniques. These informative sessions covered various aspects of trenchless technology and offered practical insights, enabling attendees to enhance their understanding of the industry.

The presence of renowned speakers and industry leaders added to the event's prestige. These experts discussed trends, challenges, and opportunities in the field. Their experience and wisdom provided attendees with valuable education and guidance, inspiring them to rethink and reshape the future of underground construction.

No-Dig Mexico 2023 also facilitated networking, encouraging interactions between professionals, exhibitors and enthusiasts in the industry. Attendees had the chance to connect with experts, share experiences and build fruitful relationships. These interactions are invaluable in promoting collaboration and innovation in the underground construction sector. >



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A wide variety of equipment was on show in the exhibition hall in Mexico

One of the standout features of No-Dig Mexico 2023 was its unwavering commitment to sustainability. The event emphasised the importance of trenchless technology in minimising environmental impact. By reducing the need for excavation and lowering energy consumption, No-Dig solutions play a crucial role in creating a greener and more sustainable future. This focus on sustainability resonated with attendees, inspiring them to adopt and advocate for eco-friendly construction practices.

No-Dig Mexico 2023 was an event that not only showcased the latest advancements in trenchless technology but also emphasised the significance of sustainable, environmentally conscious infrastructure development. With its diverse array of exhibitors, enlightening workshops, seminars, debates, networking opportunities, and strong commitment to sustainability, the event provided a comprehensive and inspiring experience for all attendees. It served as a reminder that innovation and environmental consciousness can go hand in hand, shaping the future of underground construction for the better. No-Dig Mexico 2023 was more than just an event, it was a testament to the potential of the industry to evolve and create a more sustainable and efficient future.

Commenting on the event Keh-Jian (Albert) Shou Chairman, ISTT said: "The event was so good because it brought together brilliant minds, fostering innovation and collaboration in one place. Everything ISTT is about." >

Networking – a vital part of the Mexico event which brought together trenchless enthusiasts from across the globe



Sergio Marcial Alvarado Martin, President of NASTT, México Chapter commented: "It was a remarkable event because it left everyone inspired and motivated to achieve more."

Whilst Kim Staheli, who expertly led The No-Dig Mexico organising committee echoed both these sentiments.

Several achievements were acknowledged at the ISTT Awards, including the Lifetime achievement Award for past UKSTT Chair Ian Vickridge and a Fellows Award for current UKSTT Chair Ian Ramsay.

A Mexico special feature will be included in the next issue of Trenchless Works. ■

Lively entertainment at the event's Dinner and Awards evening





ISTT WEBINAR KEY FINDINGS FROM A COMPARISON OF PRESSURE SEWER REHABILITATION TECHNOLOGIES



Iain Naismith
Technical & Education sub-committee Chair

Category: Rehabilitation

Presenter: Iain Naismith

Organization: IKT Institute

Date: 12 December 2023

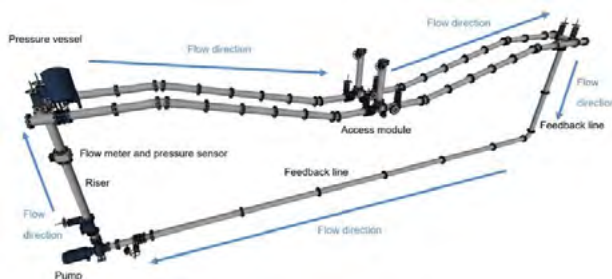
Time: 14:00 GMT (09:00 am US EST, US, 22:00 Beijing, 15:00 Berlin)

[Register](#)

Iain Naismith and Markus Gillar of IKT will present and answer questions on the findings from a comparative evaluation of six systems for rehabilitating pressure sewers. This three-year, 1:1 scale project was undertaken on behalf of a group of German sewer network owners to help them understand the capabilities and limitations of a selection of available technologies for rehabilitating pressure sewers using Class A, fully structural liners. Two close-fit and four cured-in-place-liners were examined and the findings have been used to advise network owners on quality assurance measures they need to consider when embarking on pressure sewer re-lining projects.

About: Dr. Iain Naismith

Dr Iain Naismith is a Senior Research Fellow at IKT with 35 years of experience in environmental, water and sewerage-related research. Based in the UK, he has a particular focus on international projects and knowledge sharing for this not-for-profit engineering research institute. He has been involved in the evaluation of performance of sewerage repair and rehabilitation products and products in contact with drinking water for some 20 years. ■



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Matthew Izzard, Executive Director,
North American Society for Trenchless
Technology (NASTT)

This Trenchless Works issue is the first one after of the 39th International No-Dig and so is a great opportunity to recognise those involved in creating this event and the hard work and belief of so many people. This conference is the conclusion of a three-year development focus to create a trenchless technology community network and education programme in Mexico. We thank the ISTT for its support in bringing International No-Dig to Mexico and the legacy of opportunities this has created.

NASTT completed its family of Regional Chapters to twelve, with the formation of NASTT Mexico (MEXTT) in August, 2021. The Regional Chapters create a local network for trenchless technology professionals with their own conferences and training events within the overall NASTT structure. Grant funding is provided annually to assist with operating these programmes. They work closely with our twenty Student Chapters, creating a direct career path of opportunities for those wishing to have a future in the No-Dig industry and our members.

The Mexico Chapter has since grown its membership, held two seminars, publishes a magazine and has qualified instructors to train on Spanish language Good Practice courses. An incredible achievement that we have been able to support in conjunction with the ISTT in preparation for this year's event. Thank you to all of those founders, Sergio Alvarado (Chair), Itzel Mora, Adriano Cordero, Cesar Alvarado and Milton Chavez for their dedication in creating the foundation of today's MEXTT society.

Thank you to those who have invested their time and money by either exhibiting or sponsoring. Your involvement was critical to enabling the event. We would also like to recognise the attendance of the municipalities at the conference. Their understanding of the environmental, financial and social benefits of utilising the latest technology directly leads to future utility infrastructure projects specifying effective trenchless projects and systems.

Around the exhibition hall and conference area were many students. These people are the future engineers, contractors, manufacturers of tomorrow. They are members of Student Chapters that we are proud to have agreement with including Universidad Nacional Autónoma de México (UNAM) and Instituto Politécnico Nacional (IPN) in providing scholarship places, bursaries, grant funding programmes and access to educational material, including places to the conference.

As they become part of the world-wide trenchless community this event was a unique opportunity to bring our family together. The ISTT Planning Committee putting together the show was supported equally by NASTT and LAMSTT and we thank them for their time in making this such a successful show.

Finally, I would like to also congratulate Paul Harwood, Chantel Avis and the Westrade team for putting together such a great conference. For many years they have consistently provided excellent support to ISTT and its Affiliated Societies, providing us such a great platform for our conferences. Thank you Paul!

For the MEXTT, future regional events themselves are being planned in various cities, including knowledge sessions with municipalities as well as the addition of further student chapters. The future of trenchless technology is bright in Mexico, and we thank you for attending and being a part of the international growth of our family.

Matthew



November 2023

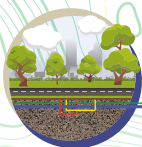


NORTH AMERICAN SOCIETY FOR
TRENCHLESS TECHNOLOGY

TRENCHLESS TIMES

APRIL 14-18 | PROVIDENCE, RI

NASTT 2024 No-Dig Show



GREEN ABOVE.
GREEN BELOW.

EDUCATIONAL & NETWORKING OPPORTUNITIES AWAIT

The No-Dig Show is the trenchless industry's flagship educational and networking event. Each year No-Dig attendees are privileged to the best industry-related content and access to the leading companies and individuals in trenchless technology.

- Engaging networking programs & events
- Prestigious industry related awards
- Technical papers & presentations
- Large exhibition hall
- Specialized trenchless training courses



NETWORKING EVENTS | EXHIBIT HALL | TECHNICAL SESSIONS

Visit nastt.org and nodigshow.com to learn more

Ralston Young Trenchless Achievement

Applauding savvy 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.**

Eligibility: Nominees must be current NASTT members holding membership for a minimum of 2 consecutive years. Nominees must be under 36 at the time of nomination. Student members are not eligible. **Application deadline is November 30, 2023.**

Visit nastt.org for more information



Upcoming CONFERENCES, COURSES & EVENTS

November 7-9, 2023
Western Chapter Good Practices Course and HWEA Conference
Honolulu, Hawaii, USA

November 13-14, 2023
Northeast Regional Conference
Albany, New York, USA

November 16, 2023
Municipal Sewer Grouting Good Practices Course
VIRTUAL

December 13-14, 2023
Pipe Bursting Good Practices Course
VIRTUAL

April 14-18, 2024
NASTT 2024 No-Dig Show
Providence, Rhode Island, USA

October 21-23, 2024
No-Dig North 2024
Niagara Falls, Ontario, Canada

March 30 – April 3, 2025
NASTT 2025 No-Dig Show
Denver, Colorado, USA

March 29 - April 2, 2026
NASTT 2026 No-Dig Show
Palm Springs, California, USA

For more information and the latest course offerings, visit nastt.org/training/events.

NASTT.ORG

educate • train • research • publish



AFFILIATED SOCIETIES

ISTT Affiliated Societies around the world



Austrian Association for Trenchless Technology (AATT)

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1040 Wien, Austria
Phone: +43 664 5184084
Email: office@grabenlos.at
Web: www.grabenlos.at



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01419-002 Brazil
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Bulgarian Association for Trenchless Technology (BATT)

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China Society of Geology - Trenchless Technology Committee (CSTT)

Xicheng District Room 151, 26
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Chinese Taipei Society for Trenchless Technology (CTSTT)

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Web: www.ctstt.org.tw/en_index.asp



Czech Society for Trenchless Technology (CzSTT)

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Republic
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Web: www.czstt.cz



Danish Society for Trenchless Technology - NoDig Infra (DKSTT)

Odinsvej 29 Silkeborg Denmark
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Email: tina@juul-consult.dk
Web: www.nodiginfra.dk/nodig-infra/
startside



Finnish Society for Trenchless Technology (FISTT)

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German Society for Trenchless Technology (GSTT)

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German construction association)
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Email: beyer@gstt.de
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Italian Association of Trenchless Technology (IATT)

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Latin American Society for Trenchless Technology (LAMSTT)

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Web: www.lamstt.org



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The Russian Society Trenchless Technology Association (RSTT)

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Web: www.s-gnb.ru



Southern African Society for Trenchless Technology (SASTT)

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Trenchless Romania Club

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Email: maria.nae@trenchlessromania.ro
Web: www.trenchlessromaniaclub.ro



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United Kingdom Society for Trenchless Technology (UKSTT)

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Web: www.ukstt.org.uk

EVENTS AND MEETINGS

2023

October 31- 1 November: 7th Water Loss Forum and Exhibition

Wow Istanbul Hotels and Conference Center
www.waterlossforum.org/en_US/

November 1-2: No-Dig Turkey 2023 Conference and Exhibition

Darulbedai Cad. No 4 Harbiye Sisli,
 Istanbul 34367, Turkey

November 1-3 November: 18th International ACUUS Conference

Singapore
www.acuus.org

November 8-9: STUVA-Expo 2023 in Munich
 Messe München, Messegelände, Hall C1

81823 München, Germany
www.stuva-expo.de/en/start-stuva-expo-2023.html

November 29: No-Dig RoadShow Bristol & UKSTT Annual Awards

De Vere Tortworth Court, Wotton Under Edge
www.nodigroadshows.co.uk

December 12: ISTT Educational Webinar

Key findings from a comparison of pressure sewer rehabilitation technologies
www.istt.com/index/webapp-registrant-form/id.22

2024

March 5-6 European No-Dig 2024:
 Hotel Andels Vienna House, Berlin
www.european-nodig.com

April 24-26 ITTC 2024:
 Changsha International Convention and Exhibition Center, China
www.cstt.org.cn/

June 26-27 Trenchless Asia 2024:
 SMX Convention Center Manila, Philippines
www.trenchlessasia.com

October 1-3 No-Dig Live 2024:
 NAEC Stoneleigh Park, Warwickshire
www.nodiglive.co.uk

5-6 November: International No-Dig Dubai 2024
 ISTT's 40th International No-Dig Conference and Exhibition
 Jumeirah Beach Hotel Dubai