


TRENCHLESSWORKS

THE VOICE OF THE TRENCHLESS COMMUNITY

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Paul Harwood, Publisher
pharwood@westrade.co.uk

Ian Clarke, Editor-in-Chief
editorial@trenchless-works.com

Austen Lees, Editorial
marketing@westrade.co.uk

Gary King, Group Sales Director
gking@westrade.co.uk

Stuart Hillyard, Sales Manager
shillyard@westrade.co.uk

Leigh Abbott, Group Marketing Manager
labbott@westrade.co.uk

Julie Harris, Design & Production

Lexi Di, Chinese Agent
lexi.di@bestexpco.cn



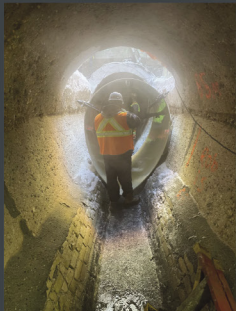
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SPOTLIGHT



Ian Clarke, Editor-In-Chief,
Trenchless Works

Hello All

It is probably just the time of year, given the approach of the financial year end for councils, highways authorities etc., but down here in the southwest of England, roadworks seem to have gone mad (and I am sure it is not just here)!

Everywhere you look, currently and over the past few months, there have been or are temporary traffic lights, diversions (some running to 20 miles or more) or road operatives with Stop/Go signs controlling traffic movements.

One of the slightly disturbing aspects of these operations is that very few, if any, have been utilising trenchless technology as part of their operations. There is, in particular, a lot of fibre installation going on, largely main lines and not house connections (we haven't got that far down here yet particular in the rural areas). Much of it is utilising existing ducting which is positive, but in other areas that have little telecoms connection other than overhead lines there is a lot of small size and narrow trenching happening, but with little thought it seems to using a trenchless option. Mini diggers abound almost everywhere this is happening!

In many instances it appears that the works are being undertaken by local fibre installers and their subcontractors, that, in themselves are smaller operations. This may be why there is little obvious use of trenchless technology. They will usually be working for the larger fibre providers or more local providers but few seem to be engaged in the trenchless market, just looking to get fibre in the ground no matter what.

This raises the question, are we missing a trick here? Whilst we would like to see the contractors engaged more with trenchless technology as they are the ones using the equipment on the ground, should there be some sort of industry push towards enlightening the fibre providers – you know the big names, they advertise broadly enough looking to get your broadband contracts for several years.

It will be these fibre providers that select their installation areas and the contractors that will complete the works. But if they do not know that trenchless options are available to them, that if used are more likely to get them better public feedback as their installations are quicker, quieter and less disruptive, and potentially cheaper, they will not push for trenchless use on their installation works.

Might it be that there is an opening there for trenchless organisations to push in quarters that may not be those usually targeted, with a view to having trenchless works specified by the providers from the start wherever possible, rather than relying on the contractors to do as they please with the equipment they have.

Ian Clarke

Editor-in-Chief Trenchless Works

A GREAT JOURNEY FOR RELINE



The new management team
Christian Beckmann, Patrick
Heimpold and Patrick Mersmann
on Reline's Expansion, Innovation,
and Challenges.

RELINE, a global leader in GRP (Glass Reinforced Polyester) and UV technologies, has experienced a significant transformation since the new leadership team was formed. In this exclusive interview, we talk with CEO Christian Beckmann, CTO Frank Mersmann and CFO Patrick Heimpold about their vision, the company's focus, and what the future holds for RELINE in terms of new markets, changes and innovations.

Christian, a bit over a year ago you started as CEO of RELINE. As a newcomer to the industry, what are your thoughts on the market and what excites you the most?

Christian: I have been impressed by the personal yet business-like nature of the industry. The open exchange with customers, partners, and competitors is a unique and enjoyable characteristic. Additionally, the industry is young and constantly evolving, which presents numerous opportunities for those who are willing to apply themselves.

That also sounds like a lot of opportunities! Frank, what do you believe is the most critical step for RELINE?

Frank: The classic field of non-pressure pipe rehabilitation, in which RELINE has established itself as a leading global manufacturer for over a decade, is an exceptionally exciting market. Further developments in terms of the product itself, pressure applications and the process are firmly anchored in our strategy for this area. Personally, I also see, based on my experience in the supplier market for trenchless solutions, excellent opportunities for our products in these growing sales markets in the medium to long term. >

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RELINE is introducing its newest innovation, the RE COMPACT UV Curing System, early may at the RO-KA-TECH Fair in Kassel.

From an outsider's perspective, the market for GRP and UV technologies appears highly unique and innovative. RELINE is the only company in the world that offers both high-tech product lines and runs its own Glass Center of Excellence. This provides you with a clear market position. However, I am sure that you face daily challenges such as shortages of skilled labour, persistent resource constraints, energy crises, and much more. What makes you so successful in overcoming these challenges? Patrick what is your perception about that?

Patrick: RELINE has a very strong foundation centred on the company's past, the way in which it was built by its founders, the bond we share with our customers and, most importantly, the people working in the company today. Talking about workforce, the special thing for me is the high level of diversity we have compared to similarly sized companies. Our team is very international and comprises people with significant experience in various professional fields, coming from a wide variety of different industries that are either complementary to our sector or more mature.

Combining these areas of expertise and providing extensive room for new ideas enables us to master the most difficult challenges and to be innovative.

A good example for our innovation capabilities is the world's largest CIPP Liner project that was recently successfully installed in South Korea by one of our customers. Being able to offer complete packages of product, technology and service is becoming increasingly important. In this specific case, our application engineers worked hand in hand with our customer throughout the implementation of the project, starting with the project planning. >

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Precision and strength at work. Loading 5 boxes of Alphaliner DN2000, with a combined weight of 31.7 tonnes, destined for Korea.



Frank, you are also making progress in the field of pressure pipe rehabilitation. You have recently completed several projects with the AQUA.UV (potable water) and Alphaliner PN (other media) in France, which sounds promising. Can you tell us what challenges you face as a manufacturer in this area?

Frank: The challenges we face are clear to us and that is exactly what to work on further development every day. It is larger diameters, higher pressure-rates, sometimes temperatures and the type of media that are transported in pressure pipelines that continually challenge us. Furthermore, every construction site has its individual requirements which we must overcome while managing the installation together with our certified local partners. In addition, the different approval procedures in each country represent another ongoing challenge to face. In this regard, we GRP-Liner manufacturers are required and supposed to work together and present a united technological platform. This is the only way to ensure that innovations relating to our process are also approved for new applications and that we are thereby able to provide our customers with new growth prospects.

Now the industry is already feeling the first changes in your company since you joined. Visually, too: Christian, you implemented the relaunch in just a few months. What motivated you to be one of the first to take this step?

Christian: One corporate group, multiple public images. I found this irritating, and I was certainly not the only one. At the same time, however, it was not the most important factor in this decision. It was about the value proposition that we offer our customers, one that they should be able to connect with.

The brand relaunch is just one element of the corporate organisation's continued development. The RELINE ACADEMY, which for years has stood for the sharing of technical and practical expertise across international borders, the strengthened internationalised internal sales service, and the expansion of application engineering, including for pressurised applications, are further building blocks of the company's development. Our clear objective is to expand the services we provide to our customers and make them available in the various markets around the world with a strong brand, a strong, centrally managed organisation, and local employees.

We are proud that we have already been able to make great strides in just a few months. Also, you can expect to hear about many more exciting topics. The focus here is on RELINE ACADEMY. >

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A relaunch is approached step by step with a clear goal in mind: What were your requirements for the company's new image and how did the project launch go?

Christian: This is an exciting topic that I would be happy to discuss with you in detail. To give you a brief insight, for today's purposes I will stick to the requirements that are most important to us. We are focusing on presenting ourselves as a unified organisation, no matter where in the world we are, and on having an appealing image, in both classic and digital settings. It goes without saying that our customers need to be able to easily find and access our services. It does not matter whether it is a brief interaction, providing the required support during the project preparation phase, supplying documents, assisting with project implementation or simply classic communication: all these aspects will continue to develop step by step.

The project itself went very well and I am convinced that we will look back on a great success in the coming weeks. In short sprints, we implemented sub-projects in expert teams, whether that be the redesign of the website, which will be gradually overhauled following the relaunch, or the expansion of RELINE ACADEMY, which will take place at the same time. This year alone, we have hosted more than 15 international training groups at the ACADEMY. Municipal authorities and processing companies were brought up to date regarding the planning process for UV lining and how it is used in practice and took part in in-depth technical discussions with us. Also, they got to experience the new face of RELINE along the way.

It sounds as though you have a highly motivated team and, of course, a big task to contend with. What elements do you see as playing a role in the new design and ensuring a high degree of brand recognition?

Christian: Those who look at our new appearance and the associated evolution of our logo will immediately see that we use clear lines and refrain from extensive descriptions in the headlines. Clarity plays a big role for us in general. This is also reflected in the colour choice. The dark blue stands for fluid media and technical brilliance, while the yellow stands for constant activity, openness, customer proximity as well as the application itself. The elegant design is reflected in every detail of the implementation, so you will recognise it everywhere in the RELINE locations in the future. >

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Teamwork in the new modern workspace - the employees thrive in an environment that encourages collaboration and creativity, leading to innovative solutions and breakthrough ideas.

Christian, and now to our last question. Were there any other details that had a positive influence on the relaunch and above all, we are curious about what else awaits us?

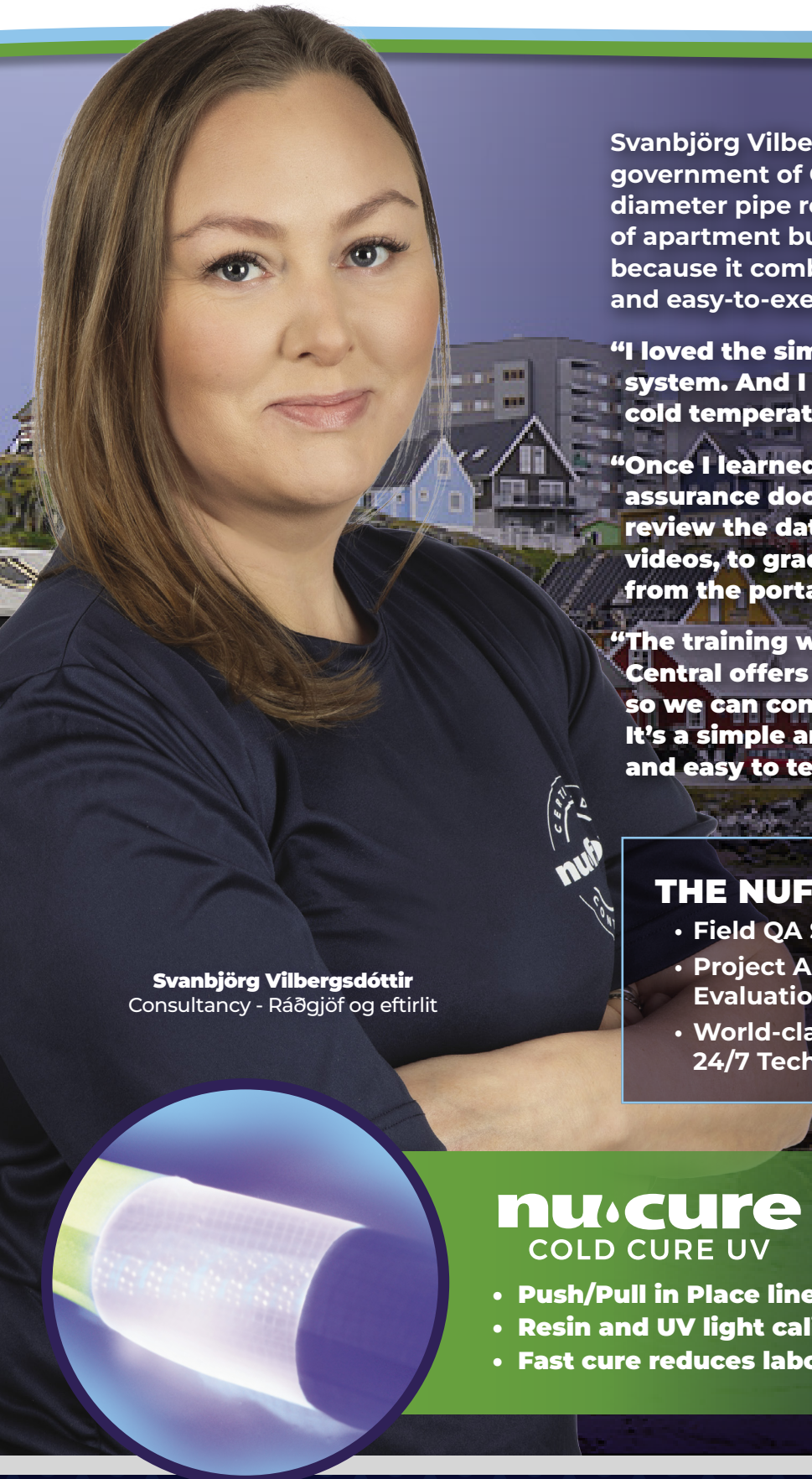
Christian: As always, it is the people who bring about change and so I would like to extend my special thanks to them. Whether it is the team in our company who worked on the design, or the craftsmen who brought it to life with great commitment and creativity, it is all thanks to them.

As for what is to come, I do not want to say too much. However, I would like to invite everyone to come and experience what has already been implemented here in Rohrbach. Whether it is through training, talking to us, or simply visiting, perhaps in connection with the RELINE ACADEMY or at the RO-KA-TECH in Kassel in early May, we say - Welcome!

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“SIMPLE AND EASY SYSTEM TO WORK WITH!”



Svanbjörg Vilbergsdóttir
Consultancy - Ráðgjöf og eftirlit

Svanbjörg Vilbergsdóttir was tasked by the government of Greenland to oversee small diameter pipe rehabilitation projects in hundreds of apartment buildings. She chose NuCure CUV 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.”

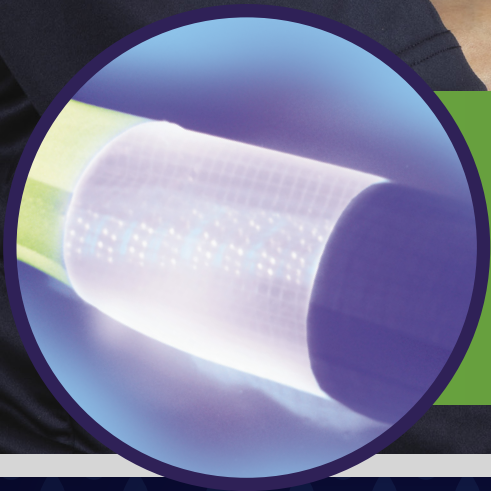
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MCELROY MONGOLIAN DISTRIBUTOR AND SHARP AWARD

McElroy was recently recognised for its commitment to workplace safety and its participation in the Occupational Safety and Health Administration (OSHA) Safety and Health Achievement Recognition Program (SHARP).

McElroy, one of the world's leading designers and manufacturers of thermoplastic fusion equipment, recently announced the addition of a new distributor to sell and service fusion machinery in Mongolia. EES Engineering is based in Khoroo, Mongolia and caters to the country's fast-growing mining industry.

Munkherdene Sanjdorj, head of Business Development at EES Engineering, said his company was first introduced to McElroy equipment while working with the Oyu Tolgoi Mine in the southern part of the country. "Our company was founded in 2015, at which time the mining industry in Mongolia was still quite young," said Sanjdorj. "The core of our business is mining equipment and maintenance, so when we were introduced to McElroy equipment, we were quite excited to get involved."

"EES, LLC is a new and growing company, and we are excited to help play a part in their success," said McElroy CEO and President Chip McElroy.

The company prides itself on promoting the latest technology, services, and equipment to boost productivity, quality, and safety in Mongolia.

"From the start, we (EES Engineering's ownership) wanted to introduce Western brands to the country, as well as an understanding of the equipment itself," Sanjdorj added. "Our mining industry is still in a maturing phase, and local companies still have a lot of room for learning."

Sanjdorj said the company was also drawn to the service training available for McElroy equipment. Through McElroy University, McElroy offers multiple levels of technician and service training, allowing distributors to maintain the highest standards in terms of quality and reliability.

To join McElroy's distributor network, companies must demonstrate a commitment to providing the same level of service and support that has been a cornerstone of McElroy since its inception. Distributors understand McElroy equipment and the fusion process and are trained to provide service and support. >

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“This year’s safety designation is especially worth celebrating. In 2022, McElroy had zero recordable safety incidents, with more than 700,000 total hours worked.”

“We need to be self-reliant when it comes to looking after our machines,” he said. “In the last three years, when many technicians could not enter the country, we were tested to the maximum. We realised the benefit of self-sufficiency and self-reliance when it comes to maintaining and servicing our equipment.”

SHARP AWARD

Further to this it has also been recently announced that on 15 February, 2023, McElroy was recognised for its commitment to workplace safety and its participation in the Occupational Safety and Health Administration (OSHA) Safety and Health Achievement Recognition Program (SHARP). Oklahoma Labour Commissioner, Leslie Osborn presented the company with a proclamation commending leadership and employees at McElroy’s 51st Street campus, located at 5124 S 100th E Avenue in Tulsa. She and OSHA Consultation Director Jason Hudson also presented company leadership with a flag announcing McElroy’s SHARP-certified status.

McElroy Environmental Health and Safety Manager Tony Little said this year’s safety designation is especially worth celebrating. In 2022, McElroy had zero recordable safety incidents, with more than 700,000 total hours worked.

SHARP is an on-site consultation programme that offers confidential occupational safety and health services to small- and medium-sized businesses in the U.S., free of charge. Consultants from local agencies or universities work with employers to identify workplace hazards, provide advice for compliance with OSHA standards, and assist in establishing and improving safety and health programmes.

“We all can use another set of eyes to help make sure we are doing the right thing here at McElroy and providing a safe workplace for our team.” Little said.

While addressing the crowd during the presentation, Osborn commended McElroy’s continued emphasis on employee safety. McElroy, she said, has a long history of ensuring safe working conditions for the hundreds of team members who come to work each day.

To become SHARP certified, companies must first reach out to their local OSHA representatives for a consultation visit. During the visit, representatives study the company’s entire workplace, doing walk-throughs of facilities, examining existing safety programmes, interviewing employees, and going through the company’s training records. The process is time and labour-intensive, and once completed OSHA representatives provide a report of their findings.

The company has a long history of dedication to workplace safety. In 1964, McElroy founder Art McElroy asked for OSHA to visit and help assure compliance with OSHA standards. This predated federal OSHA requirements and is a testament to McElroy’s culture of safety.

“Even back in those days, Art knew that it would be good to have someone come in and help make the workplace safer for his team.” Little said.

McElroy has been SHARP certified since 1999 and is one of 16 SHARP-certified workplaces in Oklahoma. This certification extends from December 2022 to December 2024.

“We are proud of this SHARP Award, but it is only a checkmark in our safety journal. The real value of the award is [employee] safety, day in and day out.” said Paul Lui, McElroy’s Vice President of Operations.

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FLORIDA CIPP ORDER FULFILLMENT CENTER FULLY OPERATIONAL

A new HammerHead® Trenchless Order Fulfillment Center (OFC) located in West Melbourne, Florida, USA is now fully operational. Cured-in-place pipe (CIPP) installers throughout the Southeast United States are receiving their orders for consumables faster.

The West Melbourne OFC is made possible through a partnership with Florida Warehousing and Storage, a leading third-party logistics company in Florida's East Coast region. Florida Warehousing and Storage offers multiple logistics services and warehouse solutions with over 75,000 ft² (6,970 m²) of storage space it owns and operates.

An earlier OFC established in Greencastle, Pennsylvania, USA in mid-2022 serves customers from Ohio to Massachusetts and south to North Carolina. For those who prefer to collect their orders directly from the OFC facility, both OFCs also offer prescheduled pickup.

Paul Waskow, HammerHead Inventory Control Manager, said the OFC concept ensures reliable, quick delivery of consumables by shortening shipping routes. Shorter routes not only reduce time in route but also a shipment's exposure to the potential for mid-route delays that can impact delivery time, such as weather.

Martin Short, HammerHead East U.S. Sales Manager, said giving CIPP installers close access to HammerHead consumable solutions can make a huge difference. One is the ability to confidently take on spur-of-the-moment jobs as they come up. "Many CIPP installers just do not have the ability to keep sufficiently large supplies of product on hand," Short said. "The OFC means they do not have to."

HammerHead customers served by the new West Melbourne OFC will not notice any change in their ordering experience. "The only difference," Short said, "is in more reliable availability and quick delivery times, knowing they will have what they need when they need it."

The West Melbourne location began operations in November 2022, starting with trial runs and increasing the size of loads. Short said the OFC is now fully operational and capable of meeting anticipated increases in product demand and accommodating Hammerhead Trenchless installers overall.

www.hammerheadtrenchless.com

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DCA LAUNCHES 'BE SAFE' MICROSITE



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Safety

Safe work practices are guidelines and procedures adopted for carrying out specific tasks that ensures workers' exposure to hazardous situations, substances, and physical agents is controlled in a safe manner. The site will foster awareness to safety and risk within the construction industry. **Meaning of SAFETY** is the condition of being **safe** from undergoing or causing hurt, injury, or loss. (Merriam-Webster)

A screen grab of the new DCA 'BE SAFE' Microsite.

Distribution Contractors Association (DCA) has dedicated a new Be Safe auxiliary microsite (dcabesafe.com) to foster risk awareness and mitigation within the construction industry. The site gives construction industry professionals a user-friendly, single point of access to guidelines and procedures that reduce the potential for damage, injury or loss while performing specific workplace tasks.

The Be Safe site is subdivided into sections: videos, updates, resources, training, safety recognition, and events. Each section emphasises the need to prioritise safety above all to help ensure everyone goes home safely each and every day. They include guidance and best practices from manufacturers, training programmes and agencies throughout the underground and construction industries.

Be Safe is the fifth microsite the DCA has launched to achieve its overall goal of making education, training and recruitment tools easily accessible throughout the underground industry.

DCA officially launched its workforce development worksite Let's Get to Work (www.dcaletsgettowork.com) in October 2020, the result of a partnership between DCA and Mike Rowe.

Two more microsites were launched in 2021 – Trenchless and OQIP. Trenchless (www.dcatrenchless.com) is dedicated to minimally invasive pipe installation, maintenance, and repair techniques. OQIP (www.oqip.org) is an industry coalition created to develop a process framework to elevate the integrity of Operator Qualification relies on many provisions found within ASME B31Q. Voluntary actions overseen by OQIP will increase consistency and standardization by 'raising the bar' above and beyond current regulations and serve as a guide for continuous improvement for the operator and contractor.

A DCA Government Relations (www.dcagovrelations.com) microsite went live in 2022. Its objectives are to educate members on regulatory and legislative issues the industry is currently facing and to explain the actions it believes its members should take at state and national levels.

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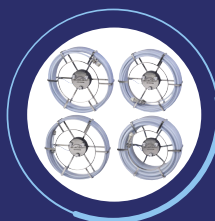
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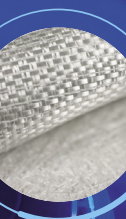


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100,000TH SAERTEX-LINER SUCCESSFULLY INSTALLED



The construction crews from STLIMA and the specialists from SAERTEX multiCom celebrate the 100,000th liner.

SAERTEX multiCom recently announced the successful completion of a very special trenchless rehabilitation project. The 100,000th pipe liner from SAERTEX multiCom was successfully installed in the major Spanish city of Valladolid. The installation was carried out by the Spanish installation company STLIMA on behalf of the local network operator AQUAVALL as part of a major project that included 49 km of sewer rehabilitation.

By the end of 2022, SAERTEX multiCom GmbH, based in Saerbeck, Germany, successfully delivered and installed the 100,000th pipe liner in the company's history in cooperation with the Spanish sewer rehabilitation specialist STLIMA. Since its founding in 1996, the family-owned company has been producing glass-fibre-reinforced (GRP) pipe liners for the trenchless rehabilitation of sewers and portable water pipes. "We are particularly pleased with the successful installation of this anniversary liner," said Kai Diecks, Global Managing Director at SAERTEX multiCom. "Because even though this SAERTEX-LINER was tailor-made for the project in Valladolid, over the past 27 years we have managed to make trenchless rehabilitation already state of the art in many countries around the world and thus part of everyday life in many rehabilitation projects."

The company's 100,000th GRP pipe liner, which was installed in downtown Valladolid, was used to rehabilitate a dilapidated section of sewer with an egg-shaped profile. The SAERTEX-LINER used had a diameter of 1,200 mm x 800 mm and a length of 98 m. It is part of a comprehensive rehabilitation project of the Valladolid sewer network of the local network operator Aquavall. Since the start of construction work in 2019, 49 km of the dilapidated wastewater and stormwater pipes in the urban area of the major city in northern Spain have already been rehabilitated using the trenchless method. "The advantage of light-curing pipe lining is that it can be done quickly," said Dr David Greciano, site manager at STLIMA. "The rehabilitation of a dilapidated section of sewer, such as here with the 100,000th liner from SAERTEX multiCom, is usually completed within a day. That is why we are moving ahead quickly with the project, without causing any major disruption to the daily lives of local residents."

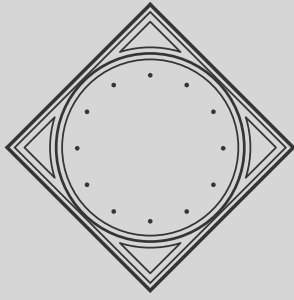
Trenchless rehabilitation with pipe liners is carried out using the existing manhole systems of the sewer system. A liner made of glass fibre reinforcements pre-impregnated with resin is pulled into the host pipe, set up with compressed air and cured by means of a UV light chain. By eliminating earthwork and tree felling, trenchless rehabilitation reduces the environmental impacts of other methods, such as noise, dust and traffic disruption. The technical service life of a pipeline rehabilitated with glass-fibre-reinforced pipe liners is designed for 50 years.

To view the video of the project please click the QR code.



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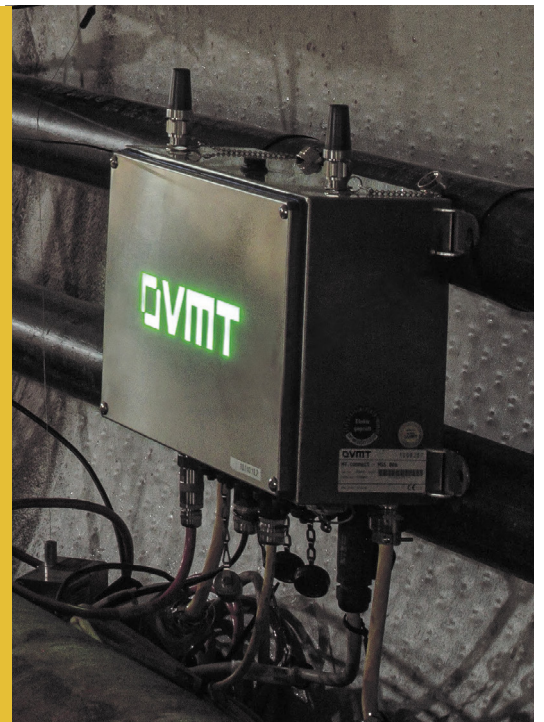


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MTS EXPAND SERVICE FACILITIES



MTS Suction Systems UK Ltd's newly opened Northern Service Depot in South Yorkshire, UK.



MTS Suction Systems UK Ltd recently announced the official opening of its new Northern Service Depot in South Yorkshire, UK. The creation of the service centre is part of the company's ongoing policy of investment in quality service and support for the company's growing number of MTS users across the country.

Both the new depot and existing main depot in Ely are managed by Chris Cunningham, the company's recently appointed Service Manager. It is equipped to complete service and maintenance works on the full range of MTS equipment. Additional investments in the support team and software packages enables all work scheduling to be via one point of contact.

The new location benefits from excellent road connections with easy access for all clients based in the North, North East, North West and East Midlands areas. A full portfolio of services for MTS equipment is offered including full scheduled maintenance packages, yearly MTS inspections and diagnostic testing. Full-service reporting is provided via the company's recently upgraded software system to ensure all clients are fully informed on works completed on their equipment.

The MTS North Service centre is located at Units 1 – 2, Plumtree Industrial Estate, Plumtree, Doncaster, DN11 8EW, UK. Email: info@mammoth-mts.co.uk

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 17-18 May
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 Kuala Lumpur Convention Centre, Malaysia

TRENCHLESS ASIA SET TO BE ASIA'S BIGGEST EVER TRENCHLESS EVENT

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With less than two months to go, the global trenchless community now has its sights firmly set on the Trenchless Asia exhibition and conference which is taking place at the prestigious Kuala Lumpur Convention Centre on the 17th and 18th May.

This is the third time Trenchless Asia has visited the beautiful Malaysian capital with this year's show set to be the biggest trenchless event ever staged in Asia. The timing also could not be better with huge government investment driving major underground utilities project across the region. The high growth market for sustainable infrastructure techniques has resulted in unprecedented demand. The exhibition space now stands at over 5000sqm showcasing the products and services from around 150 businesses and 25 different countries.

What is certain to be a buzzing exhibition will be more than matched by one of the best conference and content programmes ever put together for a trenchless event. Over the course of the two days there will be no less than four conference streams expertly curated by Dr Dec Downey. Experts and thought leaders will showcase the latest innovation and techniques while also providing valuable insight into major infrastructure projects in Asia and around the world.

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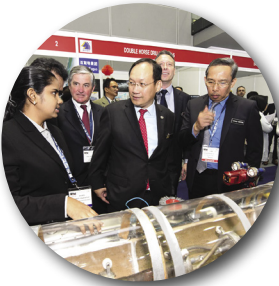


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"I'd also like to recognise the Malaysia Association for Trenchless Technologies (MATT) for all the hard work they have put into the event, their proactive approach has added real value for everyone involved in the show."



Overwhelming support for the event has been mirrored by our host country and the Malaysian authorities including The Ministry of Natural Resources, Environment and Climate Change whose Minister, Nik Nazmi Nik Ahmad, will be officially opening the show. Other prominent supporters include Indah Water Konsortium (IWK) and the Department of Industrial Relations (JPP).



Commenting on how Trenchless Asia has captured such global interest Westrade's Managing Director, Paul Harwood, said: "We can't wait to join our trenchless colleagues in Malaysia in a few weeks' time. In addition to the amazingly well supported exhibition and conference there will also be a great social programme ensuring there is plenty of time to catch up with old friends and make new ones. I would like to take this opportunity to thank all our supporters and sponsors without who this event would not be possible. I'd also like to recognise the Malaysia Association for Trenchless Technologies (MATT) for all the hard work they have put into the event, their proactive approach has added real value for everyone involved in the show. Registration is now open so please visit the Trenchless Asia website and register for free – see you in KL!"

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ATTEND**
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PROJECT TAWAU: UV CIPP REHABILITATION IN NORTH EAST MALAYSIA

MATERIALS, MACHINERY, TRAINING, PLANNING & IMPLEMENTATION

Citi Trenchless Team, together with the Director of JPP Mdme Jennieve Peters and colleagues, and JBP and BKP Trainers, on-site at UV CIPP training and demonstration

In early 2023, Citi Trenchless Sdn Bhd, a Malaysian company specialized in providing trenchless solutions for underground infrastructure maintenance and rehabilitation, started work on important rehabilitation project in Tawau, Sabah, in the northeast of Malaysia. Contracted by the governmental authority responsible for the sewer pipeline network - JPP Sabah, consultations with JPP started earlier in 2022. The on-going project is for the rehabilitation of 6km's of sewer pipes.

Citi Trenchless Sdn Bhd - Regional Trenchless Technology Specialist

Citi Trenchless Sdn Bhd, with its focus on sustainable solutions for underground infrastructure maintenance, opted for use of a UV Cured-in-Place Pipe (CIPP) solution for this project, and from the very early on in the project enlisted the technical and material support of JBP Composites S.L. Citi Trenchless are able to offer CIPP rehabilitation methods as well as pipe bursting and other auxiliary services such as pipe jetting works and CCTV inspection.

JBP Group of Companies - Technical support and technologies provider.

Citi Trenchless chose JBP's international offices, to support it in this project, due to JBP's extensive experience in the sector. Although JBP Composites S.L are based in Spain and located far away from Sabah, Malaysia, JBP's commitment to technical support and training on the >

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Citi Trenchless Staff
receive certification as
approved BKP Installers



usage of UV rig and installation of liners was not lacking. JBP, together with a technician from BKP, provided Citi Trenchless with one full week of in-house training, and we were also able to conduct a demonstration for Citi Trenchless's client JPP on the method of installation of liners with the assistance of JBP.

JBP had the additional benefit for Citi Trenchless in having a local presence through one of its sister companies in the JBP Group – JBP Consultancy Services Sdn Bhd through whom we had received earlier training in pipe condition assessment coding via one of JBP's Trenchless Training programme courses.

JBP, together with BKP, delivered a week of pre-project in-house training to Citi Trenchless's team, in Tawau, for use of the UV curing system equipment, project and site set-up and related short-liner repair. Representatives from JPP Sabah were invited to join and observe parts the training. >

Citi Trenchless UV CIPP
Truck on-site in Tawau





JPP and Citi Trenchless Staff inspecting the IMS UV 12000 Compact rig used for the project.

Berolina-Liner – the system supplier.

The Beroliner-Liner system, manufactured by BKP Berolina Polyester GmbH & Co. KG in Germany, was selected for the project due to its high mechanical characteristics, delivering design flexibility and minimal loss of cross section as well as the assurance of quality controlled ease of deployment on site, directly from BKP's factory. BKP's global reputation as an international provider and innovator for UV CIPP liners, and earlier successful rehabilitations in Malaysia using the Beroliner-Liner system also influenced the decision to adopt its system.

The Tawau project

The project, awarded to Citi Trenchless by JPP Sabah, the public utility authority with responsibility for the management and maintenance of the sewer pipeline network, is for the rehabilitation of 6 km's of pipes with diameters from 150mm to 300mm. Tawau is located on the Semporna Peninsula, on the southeast coast of the state of Sabah.

Before the CIPP work commenced in Tawau, information was gathered on all conditions of sewerage pipelines through the CCTV reports and helped determine the appropriate rehabilitation of pipes. Liners were then ordered and produced in BKP factory in Germany, and then sent directly to Tawau, Sabah.

The project's successful commencement has been ensured by careful preselection of the right partners, close communication, detailed planning, focused training and fantastic teamwork from all those involved.

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SOLUTION SUPPLIER IN MATERIAL, MACHINERY & TRAINING FOR TRENCHLESS PIPELINE REHABILITATION

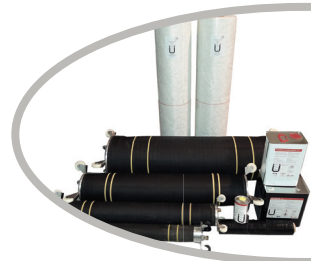


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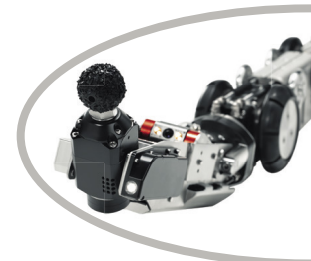


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RECORD REHABILITATION PROJECT IN FINLAND



Finland's oldest city became the stage for a new record setting trenchless pipeline rehabilitation project where 1,000 m of old pipe were successfully rehabilitated in just 40 days using 10 Alphaliner1800H with a total weight of 212 t.

Facilitated insertion of the Alphaliner1800H DN 1800 was achieved by using a conveyor belt with a folding device.

The sewer rehabilitation company EEROLA OY has been well established on the Finnish market for almost four decades. With more than forty employees, the family-owned company rehabilitates over 40 km of old pipe annually, and yet the project in Finland's former capital, Turku, was a special case in its history. Not only the need for meticulous planning was a challenge. In particular, a reliable partner had to be found that could not only produce and deliver GRP liners with the appropriate requirements, but also provide and operate the required equipment for installation.

Trusted and Reliable Partnerships

"We knew that if we were going to do this complex job, it would only work with a partner who had experience in both fields. Producing large-diameter GRP liners in the shortest possible time and also being able to supply the equipment that is 100% compatible with these," said Petteri Eerola of Putkistosaneeraus (PSE) EEROLA. "With RELINE as our supplier, we knew that they were capable of providing us with meticulous and expert support in all the planning and preparations. This is the only way to implement a project of this complexity." >

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Successful installation thanks to an exceptionally trained team and coordinated technology.

“A total of 10 Alphaliners with a total length of 1,000 m were installed in the south-western Finnish metropolis.”



Liners Installed in The Shortest Time Ever

Turku, is today a pioneer of sustainable and ecological urban development, was the scene of this equally sustainable and environmentally-friendly record setting project, which started at the beginning of October 2022. A total of 10 Alphaliners with a total length of 1,000 m were installed in the south-western Finnish metropolis. Particularly remarkable were the dimensions, lengths and weights of the GRP liners, which were deliberately ordered with peroxide-free resin. The 10 Alphaliner1800H liners were produced, loaded and installed within 40 days. The DN 1600/WT 18.4 mm and DN1800/WT 20.5 mm Alphaliners were delivered safely and on time to the site 2,000 km away in variable, reusable, timber-clad metal racks. >

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As far as the eye can see – a total of 1,000 m of old pipe was rehabilitated.

"In each week of the project, around 35 t of Alphaliner1800H were produced and loaded at our factory in Rohrbach and that without affecting further deliveries to our other global customers. We attach great importance to this!" said Philipp Bergman, Area Sales Manager of RelineEurope GmbH. "It is important in such extraordinary projects that we are involved in the preparations of the installing companies and can also provide advice and offer implementable solutions from here as well as on site, practically as 'construction site consulting'." Another successful element of this project is, of course, the use of our UV technology, which is specially adapted to our GRP liners. There, every piece of the puzzle is individually matched."

First Stage Completed In 40 Days

In addition to the folding packer (segmental end cans) from RELINE, an in-house developed conveyor belt with folding device and the REE4000 UV curing system were used on site. This allowed a curing speed of 250 mm/min to be achieved for the Alphaliners with a diameter of DN1600 and a wall thickness of 18.4 mm, and the first stage of the project in Turko was successfully completed within the specified time frame.

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LINING SYSTEM A 'GAME-CHANGER' IN BATTLE WITH HIGH-RISE DAMP

One of the UK's leading drainage and wastewater specialists is promising to transform the rehabilitation of vertical drainage stacks in high-rise buildings with a revolutionary LED pipe lining system. Lanes Group plc has proven it can significantly speed up the previously difficult process of lining both rainwater and foul stack pipes, with less disruption, using far less energy and creating less material waste.

Lanes Group lining tall building drain stacks using the Brawo Magnavity LED light cured in place pipe (CIPP) system.


The company has become the first contractor in the UK to line tall building drain stacks using the Brawo Magnavity LED light cured in place pipe (CIPP) system supplied by trenchless technology specialist S1E. The system makes lining drains in high-rise buildings much easier and more sustainable, just at a time when problems caused by faulty drainage systems are becoming a maintenance priority for social housing landlords.

Mark Scott, Manager of the Lanes Birmingham depot, which is leading the company's investment in the Brawo Magnavity technology, said: "Stack repair has been a challenging problem in high-rise buildings for years. This technology is a game-changer. It means stacks can be lined more quickly, cost-effectively and to a consistently high-quality standard. So, landlords can be confident a significant maintenance headache can be resolved effectively for the first time."

Lanes is lining stacks on high-rise blocks of flats for a main contractor working for a West Midlands council. The results have been so successful that more blocks are being added to the programme. The process involves inserting a resin-impregnated flexible felt liner, >

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The Brawo Magnavity system uses LED light to cure the resin.

often with a polyurethane or polypropylene coating, into a pipe. The resin then cures to create a tough, waterproof pipe-within-a-pipe, eliminating defects.


The Brawo Magnavity system uses LED light to cure the resin. Its LED light array is combined with a powerful electric magnet that holds the lights in place as the liner is inverted into the pipe with compressed air.

Once the liner is in place, the light pack, with its 96 UV LED lights, detaches from the magnet and cures the resin at a speed of up to 0.6 m/minute as it is pulled back through the pipe. Because the magnet guides the liner so effectively through the pipe, it can negotiate multiple bends, up to 90°, something other CIPP systems fail or struggle to do. The specialist 3D liners used by Lanes are flexible and can accommodate the 70 mm to 100 mm changes in diameter in the stack pipes being lined.

The system, which can also be used on horizontal pipe systems, also allows liners to be 'blind shot' into pipes from a single chamber, rather than between two chambers.

The advanced low-odour resin developed by Brawo is stable until exposed to UV light, giving the Lanes lining team all the time it needs to prepare the liner for curing. By contrast, ambient cure liners must be inserted in a specified time before the resin starts to harden. Lanes is able to install and cure each of the 47 m long stack liners for its West Midland client in around two hours.

Mark Scott said: "The same task would be impossible with hot water CIPP due to the weight of the water in the liner, and would be risky with ambient cure CIPP because of the unpredictability of curing times, and the production of toxic vapours during the process."



The Brawo Magnavity system requires a relatively small footprint for operation.

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VORTEX COMPANIES ADD SMALL DIAMETER PIPE UV CURING TECHNOLOGY TO UV CIPP SOLUTION SUITE



The Vortex Companies (Vortex), a leading provider of advanced trenchless water and sewer technologies and infrastructure renewal services, recently announced the addition of the small diameter IMS MICROcure LED CIPP Curing System (MICROcure) to its portfolio of UV CIPP solutions. Source One® Environmental (S1E) is Vortex's exclusive distribution partner in the United States for the technology.

The small diameter IMS MICROcure LED CIPP Curing System (MICROcure).

"The addition of a small diameter UV curing technology rounds out our product line-up and provides a system specifically designed for laterals and interior building piping systems," said Mike Vellano, CEO of Vortex Companies. "We have partnered with S1E, whose core customers include residential and commercial plumbers, to be our distribution and sales partner."

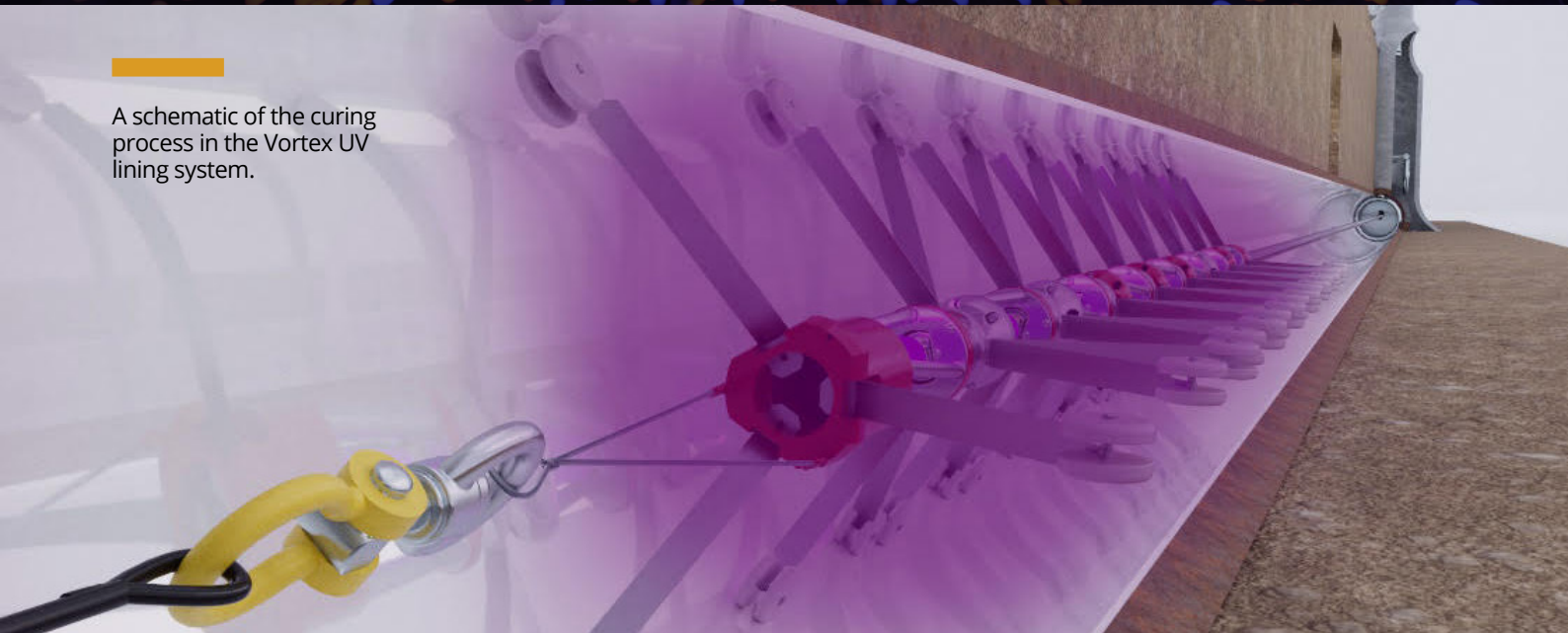
"We are extremely excited to add MICROcure to our catalogue of pipe repair solutions," stated Ron Smith, President of S1E. "There is a huge need for this non-invasive pipe renewal technology, and we are excited to present it to our customers looking to grow their business."

MICROcure is specifically engineered to reline sewer mains, laterals, and interior plumbing systems ranging from 3 in (75 mm) to 10 in (250 mm) diameter and works with both inversion and CIPP methods. Designed for portability, MICROcure is built on a two-wheel carriage and weighs only 176 lb (80 kg). The system comes with two light sources for optimum curing: a 2 x 400 W unit that easily navigates multiple bends up to 90° for 3 in (75 mm) to 6 in (150 mm) diameter pipe, and an 8 x 100 W unit that accommodates 6 in (150 mm) to 10 (250 mm) diameter pipes. Vortex and S1E's training support resources will be valuable to help educate the North American market about MICROcure's advantages for small-diameter trenchless rehabilitation, supporting domestic adoption of the technology.

"MICROcure's application versatility, and compact size make it a sensible addition to a plumbing contractor's services," added Smith. "It will potentially create a new income stream for plumbers wanting to invest in a trenchless and non-invasive solution for repairing or renewing in-building piping systems as well as structures' lateral and sewer lines." >

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A schematic of the curing process in the Vortex UV lining system.

Further to this, Vortex has also recently introduced its new, comprehensive UV CIPP Systems solutions portfolio. Vortex's UV CIPP curing equipment systems, liners, and custom truck builds backed by expert training and support, enable the company to be a valuable partner in the rehabilitation of aging infrastructure.

"UV CIPP is a powerful addition to a contractor's CIPP toolbox," said Mike Vellano. "With demand growing for UV CIPP as an alternative solution, we are a single source for everything contractors need to add UV CIPP to their trenchless rehabilitation solution set."

Commonly used in Europe, UV CIPP provides contractors, engineers, and asset owners with a proven approach to expand their existing use of CIPP technology in a way that allows additional installation flexibility and environmental advantages. Vortex offers the most advanced UV curing equipment options available through its strategic partnership with IMS Robotics. Accommodating pipe diameters 6 in (150 mm) to 80 in (2,000 mm) diameter, Vortex's IMS UV Curing Systems deploy an ultra-violet 'light chain' and infrared sensors to capture data every 12 in (300 mm) to ensure a complete cure and improve installation efficiencies.

"We are set up to sell curing technology to customers looking to expand or upgrade their current fleet," said Matt Timberlake, SVP Shared Services at Vortex. "Our Greenville, South Carolina facility is also equipped to custom build UV CIPP trucks for both new and existing customers."

Vortex's new EnviroCure UV® Liner, developed in partnership with Applied Felts, is pre-impregnated with resin and constructed using a corrosion-resistant, styrene barrier sleeve, non-wicking fiberglass to enhance physical strength while delivering a thinner pipe wall design. Its unique construction enables reinstatements to be performed quickly and correctly the first time with reliable dimpling that clearly identifies junctions between laterals and the main line, saving several minutes per lateral to return assets to service faster. Additionally, the liner is cold and hot weather-friendly, ideal for environmentally-sensitive locations, manufactured in the USA and readily available, as quickly as two weeks, to speed project completion.

To ensure new customer success, Vortex also offers an immersive training programme that includes classroom-based operations instruction equipment training and live field training, backed by ongoing remote technical support.

"This advanced approach to UV CIPP system support significantly increases a contractor's early success and long-term growth in this expanding segment of the CIPP installation market," added Timberlake.

www.vortexcompanies.com

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LIGHT CURING ONE STEP FURTHER

The new BRAWO®
Magnavity SX
lining system.

BRAWO® SYSTEMS recently presented its new, further developed light curing system, BRAWO® Magnavity SX to the market. The innovative system offers users a unique form of light curing which is smart, efficient and as powerful as usual with an even longer range of 60 m, yet still with compact dimensions and light weight.

The new, compact system has an even higher level of operating convenience, a further increase in installation safety and, at 60 m, a 20% longer installation length.

The two LED heads, Nano and Mega, enable the rehabilitation of diameters from DN100 to DN300 with BRAWOLINER®, and the BRAWO® LR and BRAWO UVPox light resins. The curing takes place automatically and the entire rehabilitation process is documented.

The BRAWO® Magnavity SX claims to be the only system that can be used to rehabilitate pipes featuring bends over distances of up to 60 m from one access point. High installation safety and the usual high quality of BRAWO® Tech is guaranteed, which is underlined by the CE conformity and the NRTL certification of the system for the U.S.A. and Canada. With BRAWO® Magnavity SX, BRAWO® SYSTEMS guarantees its customers maximum flexibility on the often difficult-to-plan construction sites involving building and property drainage.

Smart – Efficient – Strong

The three attributes also apply to the BRAWO® Magnavity SX, which makes curing with light even more efficient, smarter and more powerful. The system consists of an intelligent LED head, a 60 m long combination hose with integrated power and compressed air supply, a retraction unit and a control box. >

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The BRAWO® Magnavity SX control system.



The innovative, unique design of the LED head allows it to be retracted simultaneously with the inversion of the liner. Curing is therefore carried out immediately after installation of the liner, without the need for additional insertion of the eel. In this way a complete work step is saved!

Furthermore, this means that only one access point is necessary even for longer rehabilitation lengths with bends. The LED head does not need to be pulled in via another access. In many cases, this is the only way to make rehabilitation possible at all, where an additional access opening (e.g. inspection opening, shaft) cannot be created easily or only with considerable effort in construction.

The core of the system is an electromagnet integrated in the LED head, which can be remotely unlocked via the system's control unit after inversion. The pull connection is released and the LED head, which is then activated, can be retracted at a speed of 0.1 to 2.0 m/min by means of the retraction unit. The liner cures completely using 96 high-power UV LEDs with over 50% efficiency instead of the usual 30%.

The system's installation log can be accessed and processed via an interface on the mobile device.

Thanks to its modular construction, compact design and comparatively low system weight, easier transport of the BRAWO® Magnavity SX is guaranteed even under the most difficult access conditions.

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ASSISTING SEWER REPLACEMENT AT UK COASTAL TOWN

A Goliath GRUNDORAM from TRACTO played a key role in the process of installing a casing pipe as part of the HDD project.

Budleigh Salterton is a popular and picturesque seaside town situated within the East Devon Area of Outstanding Natural Beauty in the southwest of the UK. Located at the start of the stunning Jurassic Coast, a UNESCO World Heritage Site recognised for its outstanding rocks, fossils and land forms, it is a year-round tourist destination.

The regional water company recently took preventative action to replace a worn stormwater/sewer pipe that has serviced the whole of the town for over 100 years. A Goliath GRUNDORAM from TRACTO played a key role in the process of installing new 500 mm diameter PE pipe to replace the former aged clay pipe.

Whilst pipe renewals can often be a straightforward job, this was anything but due to the ground conditions. The underground bore, some 530 m in length, comprised a section under the wash to the other side of the estuary and required an installation depth of 50 m at an entry angle of 18°. Specialist trenchless contractor, GMAC Utilities, was awarded the job with a brief of keeping the existing pipe in place whilst installing the new PE pipe, to ensure continuity of service for local homeowners and businesses.

However, the ground make-up, which included cobbles and gravels to a depth of 17 m where the sandstone rock head started, prohibited the use of a standard rock drill due to the risk of a ground collapse and inability to achieve borehole stability through the challenging materials. The job required a specialist piece of pipe ramming equipment and the company turned to leading manufacturer TRACTO to hire the Goliath GRUNDORAM to assist with the installation. A 1 m diameter steel casing in 12 m lengths had to be welded together to achieve the ➤

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An aerial view over the HDD launch site whilst installing the casing pipe.

60 m length required and to ensure the most accurate, efficient job. Arnie Bailey, a freelance ramming expert, was brought in to operate the rammer. He worked in partnership with the Site Manager from GMAC and its team of operators and welders to prepare the equipment prior to the ram. Arnie, who previously worked for TRACTO UK for over 2 decades, now consults on Geothermal drilling projects nationwide and is a big fan of TRACTO technology.

"The Goliath is a powerful hammer capable of installing 100 m of 1 m diameter pipe. Using this technology saves a huge amount of time over auger boring, which would have been an alternative solution. Using the TRACTO rammer took just 3 weeks, whilst an auger would have required 9 or 10 weeks. This time saving period of 6 or so weeks translated into a huge financial saving for the local council," Arnie said.

Thanks to Arnie and his experience of operating the rammer, the job was a huge success. Arnie commented: "The accuracy of the GRUNDORAM was second to none, in fact, it was 99% accurate with the rig going in at 18°. This level of precision is vital and I always know if we use the TRACTO product it will deliver. The team on site is very happy with the solution."

Chris Brodie, Gmac Utilities Ltd Business Development Manager, agreed, saying: "The Goliath Grundoram performed beyond expectations, easily installing the casing in time and to budget. We were also pleased with the highly efficient service from TRACTO UK getting the equipment to site, as well as great product support from their representatives who visited site before and during the ram. This installation then enabled us to complete the remainder of the HDD bore."

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MARKSMAN™ HDD GUIDANCE SYSTEM EXPANDED

The latest in the Marksman series of HDD guidance systems.



To streamline and simplify HDD guidance for operators completing shallow bore projects, Subsite recently introduced The Marksman. The Marksman is the second product introduced in the Marksman series of HDD guidance systems, following the release of the Marksman+ in 2021.

The Marksman features single-button calibration, minimising the risk of human error and speeding up the preparation process. Six frequency options and simplified features make the Marksman ideal for completing shallow bores for service installation, enabling operators to quickly move from one jobsite to the next. The Marksman is an economical option for contractors that want to stay efficient and increase drilling uptime.

"Efficiency is a top priority for our customers. That is why we developed this simplified HDD guidance system to help operators get in and out quickly," said Braxton Smith, HDD guidance product manager at Subsite. "The intuitive interface of the Marksman gives operators the confidence they need to successfully prepare for any shallow bore directional drilling projects." >



The Marksman system on site.



The Marksman is compatible with Subsite's TD Recon and Commander 7, as well as the Subsite Field Scout. The Marksman is operated with a single joystick control, with no extra buttons or triggers, for a more intuitive operator experience. The system also gives operators their choice of the user interface. The commonality of user interface options provides operators with a simplified transition between products, saving time on the jobsite for crews to learn a new interface. The compatibility and streamlined controls work together to help operators be more productive from day one.

"The ROI and simplicity of the Marksman for contractors doing routine bores make it an obvious choice in HDD guidance systems," said Smith. "The familiarity and intuitive features of the Marksman make it easy for operators to improve efficiency as they prepare to drill."

<http://www.subsite.com/products/hdd-guidance/marksman-series/marksman/>

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DITCH WITCH INTRODUCES ITS LARGEST ALL-TERRAIN DIRECTIONAL DRILL



Designed to push through rock and tough ground conditions, the new AT120 is designed to provide a mid-size solution for projects typically reserved for maxi-size drills.

To enhance underground construction operators' productivity while working in tough ground conditions, Ditch Witch recently introduced the AT120 All Terrain (AT) directional drill, the largest AT system from Ditch Witch to date. The AT120 gives operators the power and stability needed for efficient fibre, pipeline and utility installation through hard rock. Furthermore, as the successor to the Ditch Witch AT100 and American Augers' DD110, the AT120 enables maxi-rig drill operators to move down a class size to meet jobsite constraints without compromising jobsite productivity.

The AT120 features 15,500 ftlb (21,000 Nm) of rotational torque and 3,000 ftlb (4,070 Nm) of inner rotational torque, a 50% increase over the AT100. With 120,000 lb (54.4 t) of thrust and pullback, the AT120 allows operators to take on a wide variety of projects, as well as move through longer bores and larger diameter installations more efficiently. The drill is powered by a 280 hp (209 kW) Cummins Stage V diesel engine that meets European emissions standards for cleaner jobsites.

Built to boost jobsite uptime, the AT120 offers a 20 ft (6 m) end-to-end drill pipe on board, helping operators put more pipe in the ground. New technology enhancements include a patent-pending Virtually Assisted Makeup and Breakout (VAM) solution, which ensures the drill pipe and tooling are at the correct levels observed by the torque gauge during a bore. This makes it easier for operators to automatically add or remove drill pipe during a bore and increase jobsite productivity. >

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Top: A front view of the new AT120 HDD rig.

Bottom: The drill operator's control panel.

To further maximise uptime, The AT120 offers a saver lock design to protect the drill pipe and drive system against wear and tear. With an updated engine compartment and access panel design, operators have increased access to critical components that frequently need to be maintained, streamlining maintenance routines and the serviceability of the drill.

"Anyone drilling through hard rock needs a machine that has the brawn to push through," said Jeff Davis, Ditch Witch HDD product manager. "The AT120 delivers the exceptional power that these jobs require. Also, as our largest AT drill yet, the AT120 pushes Ditch Witch users to larger-scale jobs that typically run maxi-rigs, which means maxi-rig operators can bring less equipment to the jobsite, maximising cost savings and boosting jobsite uptime."

The AT120 also offers a multimode joystick, the first production unit in the Ditch Witch line-up to market with this. The multimode joystick boosts operator productivity as operators can set up their joystick controls to their style of drilling. This not only improves operator confidence while running the drill, but also reduces time spent training, ultimately saving time, money and increasing jobsite uptime.

Additionally, the AT120 shares a common design with the latest Ditch Witch family of horizontal directional drills. This commonality enhances operator comfort and ease of use, and streamlines training, helping operators stay productive and efficient.





VERSATILE ELECTRIC PIPE-CUTTER MAKES UK DEBUT

Top-down view of Climbolino unit including display, hose, cutters, and tools.

The first all-electric, battery-operated, lateral pipe-cutter to enter the UK market has secured sole distribution with pipeline equipment specialist Ant Hire Solutions.

Hächler, the German manufacturing company that invented the Climbolino E cutter, is working in collaboration with Ant Hire to ensure its availability for hire and sale from March 2023.

Compared with traditional cutting machines, the Climbolino E reduces energy consumption by 90%, making it a sustainable choice for companies looking to reduce energy use on routine operations in line with water companies' net zero carbon ambitions.

Climbolino E can be used to remove a range of obstructions in sewerage and wastewater pipes, including iron, steel, tree roots, and build-up of non-biodegradable substances. The cutter can also be used to open lateral connections after pipe lining and for general rehabilitation work.

Each unit comes with a detachable LED display, a full range of tools, four different cutting heads, and 30 m long hose. Should the hose or cutting head become damaged, they can be quickly and easily replaced on site by the operator reducing downtime making it, it is claimed, one of the most productive pipe-cutters in the UK market.

Time-Saving Design

Climbolino E is specifically designed to be ergonomic and compact, ensuring it operates efficiently and is not cumbersome to use. This saves operatives time and minimises interruptions to workflow. >

To optimise use of space, the Climbolino E does not require a compressor to power the cutting motor making it is easier to transport, handle, and set up. This also means it is well suited to locations with limited access and noise restrictions, for example in residential or urban areas. >

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Climbolino unit with hose and cutting head attachments.



Above right: Climbolino 12 in (300 mm) detachable LED display.

Adrian Thompson, managing director, Ant Hire Solutions said: "Listening to feedback from Ant Hire customers over many years, we know that maximising efficiency on site and minimising downtime are of the upmost importance to them. The Climbolino E offers a fantastic solution in both these areas and Ant Hire is very excited to have the privilege of bringing it to the UK market."

The Climbolino, with its optional pipe guides, is suitable for pipelines ranging from DN60 to DN300 (60 mm to 300 mm diameter), significantly boosting the range of pipe sizes that can be serviced using a single cutter.

Robotic Functions

The entire unit is powered by interchangeable 56 V DeWalt batteries, which can be quickly replaced to enable continuous power supply and operation. When in operation, the robotic cutting heads are controlled with a one-handed joystick mechanism for easy manoeuvrability. Paired with the fully flexible hose, it can navigate pipe bends up to 90°.

To achieve a full picture of the pipework obstruction, a camera lens is used to transmit an image onto a clear and detachable 12 in (300 mm) LED display for full visibility.

Rolf Peters, managing director of Hächler said: "When demonstrating, I always see the amazement from customers when I push the Climbolino E through their various test sections, often effortlessly. Not many customers expect to see the outstanding flexibility and enormous power of the cutter, hose, and camera combination, which is what makes it so special and unique as a milling robot. Hächler is very excited to be working with Ant Hire to debut it in the UK market."

As part of the collaboration, the hire and sale of the Climbolino E will be fully supported by Ant Hire Solutions' service and repair centre with demonstrations and training available to customers on the UK mainland.

Video link: <https://www.youtube.com/watch?v=NAuRwehps1M>

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KWIK-ZIP SPACERS AID CORROSION MANAGEMENT

kwik-ZIP spacers fitted to a pipe for protection.

Corrosion accelerates degradation and reduces the life of pipeline infrastructure, costing the industry millions of dollars in rehabilitation, rebuilding, and down time. kwik-ZIP knows the importance of having a corrosion management system in place and spacers are a readily available solution component available to help and reduce costs.

All pipelines are exposed to a range of physical, climatic, and chemical elements that can cause corrosion. This is often exacerbated in harsh environments where pipelines are exposed to high salt levels or extreme temperatures that can accelerate the rate of decay.

Ignoring the effects of corrosion can be costly for asset owners, and planning for corrosion control and mitigation has many advantages, including extending the life of an asset and reducing maintenance time and costs.

Stopping Corrosion


According to kwik-ZIP Managing Director Jason Linaker, an appropriate spacer system is one simple tool that asset owners can employ as part of their corrosion management system. "Choosing an appropriate spacer system can help mitigate the effects of corrosion on new and rehabilitated pipelines," said Linaker. "Spacers made from inert materials such as high-grade thermoplastic are the best choice for pipeline installations as they are resistant to the effects of corrosion."

This is particularly important in harsh environments where spacers made from other materials such as metal do not hold up as well.

"For instance, some areas may have acid sulphate soils (ASS). A metallic spacer would be subject to severe corrosion if it were to come into contact with ASS. Even stainless steel is subject to accelerated corrosion from such soil conditions." said Linaker. >

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Installing a pipe into a casing utilising kwik-ZIP spacers.

“kwik-ZIP casing spacers will protect pipes, make installation easier and assist to extend the life of your asset.”

While corrosion can be transferred via the metallic spacer to the steel pipeline itself, inert non-metallic pipe spacers are resistant to such conditions. Corrosion can also be transferred when a new pipe is inserted into an old pipe for rehabilitation. This transfer can occur if the new pipe is made from steel, or if metallic spacers are used. Even if the new pipe is not steel, corrosion can still breach the grout seal around the new pipe.

“Inert non-metallic spacers are resistant to the transfer of pre-existing corrosion, ensuring they remain intact throughout the life of the pipe.” Linaker said.

The kwik-ZIP Advantage

kwik-ZIP spacers are an Australian designed and owned spacer available in the UK market. Designed and developed by drilling professionals, the kwik-ZIP range of spacers is manufactured from its engineered thermoplastic blend, which is characterised by its high resistance to corrosion, even when in contact with organic substrates for long periods of time.

“kwik-ZIP casing spacers will protect pipes, make installation easier and assist to extend the life of your asset.” said Linaker.

The HDX and HDXT Series casing spacer can be used for medium to heavy weight pipe materials including steel, ductile iron, GRP, FRP, concrete, PVC and PE. Furthermore, it is suitable for both pressure and non-pressure pipelines in grouted and un-grouted installations.

The casing spacers utilise a segmented design that enables the system to be used on a variation of carrier pipes from 100 mm o.d. to 3,000 mm o.d. Spacers for smaller diameter carrier pipes are also available.

The spacers incorporate low friction high abrasion resistant wear pads, attached to load sharing runners. The number of segments required for each spacer is determined by the outside diameter of the carrier pipe.

Although small relative to the entire pipeline infrastructure, kwik-ZIP spacers make a large difference in the overall success of pipeline installations and corrosion management.

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ROTREX GROUP EXPANDS FLEET OF UP40 WINCHES



Rotrex Group, which provides winch hire, sales and support worldwide along with high level cradle and fall protection equipment services across the UK and Europe, has ramped up its fleet of rental winches after investing in a number of UP40 winches which are manufactured by OMAC in Italy.

One of the UP40 winches now on offer for hire by Rotrex Group.

The investment means the Group now offers customers the largest fleet of 4 t rental winches in the UK. In the recent years, the UP40 has become a popular winch in Rotrex's portfolio due to its exceptional capabilities and features. It is suitable for use across many industries - including telecoms and the wider utilities sector, for both above and below ground projects.

The UP40 boasts a maximum pull of 40 kN, a maximum speed of 65 m/min, a 12 mm diameter maximum rope capacity, and steel rope fitted up to 1,300 m. It has a light composite material canopy and is more streamlined than comparable winches, making it efficient for towing while allowing for more rope to be carried. With a superior speed of rope pull, it reduces man hours on site and delivers constant and reliable tension.

It also has a raft of built-in tech including onboard Wi-Fi for data transmission and the latest data recording technology. Customers can use the supporting app and benefit from bespoke demonstrations, ongoing technical support, and training courses provided by Rotrex's experienced team. The new fleet of UP40's is available for next day delivery right across the UK.

Rotrex Group, a sister company of LGH UK, has bases in Alfreton, Atherton, Crayford, Rainham, Motherwell and Aberdeen. It is one of the leading winching firms in the UK and currently has the largest and broadest range of winches in Europe. It is currently supporting several large contractors on major projects throughout Europe, providing winches, Softrak all-terrain vehicles, cable drum trailers, and cable pushers/blowers.

Rotrex's team of mobile engineers works with customers on numerous hire set-ups, pulls, on-site testing, refurbishment works, servicing, and training. Additionally, the special project team designs, manufactures, installs, and commissions bespoke winches. Rotrex is the only UK distributor of OMAC winches and is expanding its sales offering.

Don Wilkinson, General Manager at the Rotrex Group, said: "This new investment in our rental fleet further solidifies Rotrex's position as one of the UK's leading winch hire specialists. As a business, we are constantly analysing the marketplace and are laser focused on delivering the products that our customers need. The demand for the UP40 is only set to grow and we ready to support our customers around the UK by providing them with the best solutions to make their projects run smoothly and more efficiently."

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SVI SUPPORTS ANGLIAN WATER PROJECT

The SVI Contract Service team provided grout filling operations on new pipework for Anglian Water in the UK.

The Steve Vick International Contract Services team recently assisted Anglian Water, through JN Bentley, in a project which involved building a new network of interconnecting water pipelines from Lincoln to Grantham, UK. The 34 km section starts south of Lincoln, near Waddington, and ends near Harrowby, east of Grantham.

This project is part of a bigger project with Anglian Water to create hundreds of kilometres of new, interconnection water mains to keep fresh, clean water flowing across the region. It is one of the largest infrastructure projects in Europe. Once complete, the new network of pipelines will be longer than any UK motorway and will help tackle future water shortages.

The SVI Contract Service team provided grout filling operations on the new pipework running under road sections across the 34 km stretch. The grout filling operation involved filling the annular space between the concrete/steel sleeve and the new PE or steel water main. Sizes ranging from 1,200 mm to 400 mm diameter.

The grouting enabled the void between the two pipes to be filled ensuring that the newly inserted water main was protected from the risk of damage from the weight of the earth from the road above and the unnecessary ingress of extraneous matter or animals. The grout will help to maintain the pipes strength and structure and prevent damage to the sleeve ensuring the integrity of the road surface.

JN Bentley, Works Manager, Andy Young commented: "We were thrilled with the work Steve Vick carried out for us on this infrastructure project. The gravity-fed grout offered a safe, fast, and cost-effective solution to filling the annular space and will help prevent damage to this newly inserted water pipeline keeping fresh, clean water flowing across the network." >

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The mixing point for the one of the grout filling operations.



SVI has a rich history of working on a variety of grouting projects for different industries. The company has used grout to fill old fuel lines on the air side of Heathrow Airport where the airplanes taxi and has also completed a number of railway projects such as the A2 railway crossing in Dartford where grout was used to fill the annular space in a 120 m long length of pipe.

A grouting operation completed on site.





SOCIETY NEWS

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A MESSAGE FROM THE CHAIR



Keh-Jian (Albert) Shou,
Chairman, ISTT

Hi ISTT members!

As you may be aware, 'physical' conferences were full of attendees and exhibitors recently, a situation I believe will last for some time for the beginning of the post-pandemic era.

We will have many International and regional No-Dig events this year, such as the 26th International Trenchless Technology Conference and Exhibition in Suzhou, China in April; the NASTT 2023 No-Dig Show, in Portland, USA; the 4th Trenchless Latin American Conference in Cartagena, Colombia, all of which will be followed by 2023 Trenchless Asia in Kuala Lumpur and the Italia No-Dig Live 2023 in Milan in May. I can tell our field is extremely vibrant. I will try my best to join all those events to encourage our Affiliated Societies. According to the current statistics, in addition to the International No-Dig in Mexico, we will have at least 6 more events.

The preparations for International No-Dig Mexico, which will be held between 17 and 18 October, 2023 in Mexico City, are well under way. To encourage and allow more attendees, we have extended the **Call for Abstracts to 1 May, 2023**. Please be aware that we will have other activities like the ISTT Awards as usual, so please prepare and submit your applications. In addition, please kindly register and book your ticket as early as possible as I believe it will be a big event after a the long silence during the pandemic.

ISTT is trying to face the changing world by providing more services to our Affiliated Societies through our website. We will provide more technical and non-technical material, in addition to our other sources like the technical guidelines, technical papers, and educational webinars. We will have two webinars, one in April and the other one in May, focusing on HDD and the Infrastructure Earthquake topics. Please check and register through our website.

Again, please kindly keep watching our new developments, and feel free to provide us with your comments or suggestions. I am looking forward to seeing you soon during our webinars and those No-Dig events held in around the globe.

With my Best Wishes!

Keh-Jian (Albert) Shou
Chairman, ISTT



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WARMING UP FOR TRENCHLESS ASIA 2023



Opening speech from the Director General of Malaysia's Sewerage Service Department (JPP) Tuan Hj. Wan Abd Rahim Bin Wan Abdullah



Great attendance at IWK's Langat Sewerage Treatment Plant

MATT HOSTS A ONE DAY SEMINAR FOR TRENCHLESS INNOVATION & OPPORTUNITIES WITH A REGIONAL PERSPECTIVE.

Trenchless methods and solutions have been an integral part of underground infrastructure management, expansion and modernisation in Malaysia, and with ever increasing importance.

In the greater Kuala Lumpur area masterplan, trenchless works have enabled the completion of several regional sewerage projects, connecting millions of households to a centralised system which provides better treatment control and monitoring, thus protecting our precious rivers for many more millions to enjoy. Pursuing one of its core aims and with a focus to drive awareness of trenchless benefits and applications in Malaysia, the Malaysia Association for Trenchless (MATT) organised a one-day seminar in the auditorium at Indah Water Konsortium's Langat Sewerage Treatment Plant (LSTP).

SUPPORT

The Director General of Malaysia's Sewerage Service Department (JPP) Tuan Hj. Wan Abd Rahim Bin Wan Abdullah opened the event with a speech echoing the importance of use of trenchless methods, raising awareness and training.

The day had a packed programme, with further presentations from a variety of experts from the sector including Ir. Mohd Zuki Muda (IWK), Ts. Angie Ng (I Green), Dato Danny Cheng (ICOP), Dr.Ir. Chung Siung Choo (Swinburne University of Technology), Tom Sangster (Downley Consultants), Jan Borje Persson (JBP) and Mdm Trisha Sun Min Min from Singapore's Trenchless Society (SgSTT). >

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Thumbs Up for a successful day's work!



The first sessions in the programme were delivered by MATT's President Faizal Othman and JPP's Director YM. Raja Baharudin Bin Raja Mamat.

Ir. Dr. Choo Chung Siung (Swinburne University of Technology, Sarawak Campus and Committee Member of MATT) presented recent advances in the use of machine learning for uncovering insights into how decisions are made at pipe jacking sites. Based on case studies from the Kuching Wastewater Management System project, the research showed the potential of artificial intelligence in uncovering hidden knowledge for pipe jacking operations, especially in variable and adverse geologies.

Mdm Trisha Sun, from W&M Consultants and as current Chair of the Singapore Society for Trenchless Technology (SgSTT), shared insights on the forefront of irregularly shaped pipe jacking. Mdm Trisha presented the plans for Singapore to utilise its underground space.

Amongst the other presentations were two delivered remotely by Borje Persson, from JBP Consultancy Services Asia Sdn Bhd, who shared a retrospective assessment of UV Cured-in-Place Pipe Rehabilitation, and Tom Sangster who focused on Pressure Pipe Inspection for Water and Rising Sewer Mains.

Attendance on the day exceeded all expectations, in excess of 100, and was an opportunity to promote the value and opportunities offered through being part of a National Trenchless Association such as MATT.

For those who were not able to attend, several of the presentations will be made available via the association's web site www.matt.org.my, in the near future.

A special thanks must go to Ts. Angie Ng, MATT's Secretary and her two assistants for all their efforts and hard work in ensuring the day was a success, and also to the event's sponsors including JPP, IWK, Trenchless Asia 2023, G-Cast, Fibrwrap Construction, I Green Engineering, TPP Manufacturing, Waras Megah, JBP Trenchless Training.

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To be amongst the worlds leading providers and show your innovations, book a stand at International No-Dig Mexico.

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SÃO PAULO NO-DIG 2023



Trenchless
operations being
undertaken in
São Paulo.

Trenchless Technologies have grown exponentially in Brazil due to the need for massive expansion of underground infrastructure and renovation due to the deterioration and aging of rainwater drainage pipes, drinking water, sewage, oil, and gas networks. With this, cities have increasingly sought to meet this demand with techniques that cause the least impact on society and are faster, cleaner, and at a lower cost than conventional techniques.

São Paulo No Dig Show 2023 responds to this demand. It aims to introduce, promote, and connect public and private companies, cities, and industries with suppliers of the most advanced Trenchless Technologies in the world. Therefore, it is with great pleasure that Brazil presents the São Paulo No-Dig Show 2023.

EVENT

The event, organised in partnership with ABRATT and AESabesp, will take place between 4 and 6 July, 2023, at the Instituto de Engenharia de São Paulo. It will be the first LIVE event in South America with working demonstrations of No-Dig methods.

Participants will be able to see what is most modern and advanced in the world in terms of non-destructive technology - MND (Trenchless Technology) at the open-air exhibition with state-of-the-art equipment that will provide live demonstrations. There will be national and international exhibitors, making the event of global scope and great importance for the Trenchless community. Do not miss this opportunity! >

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A variety of trenchless systems have been utilised on works in Brazil.

In addition to the equipment exhibition, the São Paulo No-Dig Show 2023 will have technical lectures on installing new pipes, replacing pipes, pipe rehabilitation, underground surveying, and other non-destructive techniques. Great projects will be presented that used various methods including Horizontal Directional Drilling (HDD); Bursting with Increased Diameter – Pipe Bursting; Structural Rehabilitation of Drinking Water Mains and Large Sewage Collectors – using CIPP and many other techniques.

The São Paulo No-Dig Show 2023 will also feature renowned professors and international consultants who will bring with them news of and advances in non-destructive technology from around the world.

Participants will have a unique opportunity to learn new techniques, deepen their knowledge in MND (Trenchless) and interact with the Brazilian and international MND (Trenchless) community! ABRATT and AESabesp wish you all a great event! Website: <https://www.abratt.org.br/eventos/sao-paulo-no-dig-show-esta-definido/>

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CALL FOR ABSTRACTS FOR NO-DIG MEXICO DEADLINE EXTENDED!

The deadline for submission of Abstracts for the No-Dig Mexico Conference between 17 and 18 October 2023 has been extended from 15 March 2023 to 1 May 2023

The following is a list of topics likely to be included in the programme:

- New installation methods (Pipe jacking, Microtunneling, Pipe bursting, Pipe ramming, Impact moling, HDD, etc.)
- Rehabilitation and repair methods (CIPP, Slip lining, Spray lining, etc.)
- Pipe inspection
- Site survey
- Underground detection
- Asset management
- Others

A synopsis (maximum of 200 words), the author's biography, and a photo will be needed to complete your submission. The submissions website can be found at: <https://www.no-digmexico.com/call-for-papers/>. Note that there is no 'Submit button' in this system. The completed submissions will be automatically forwarded to the organiser right after the closing date unless you withdraw them. To check your status, click 'My submissions'.

If there are any questions relating to the submission or the process, contact: NoDig_Conference@istt.com

The Submission process schedule is as follows (Subject to change without notice):

- 01/05/2023 Deadline for abstract submission
- 20/05/2023 Notification of abstract acceptance
- 15/07/2023 Draft paper deadline
- 01/09/2023 Full paper deadline

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AFFILIATED SOCIETIES

ISTT Affiliated Societies around the world



Austrian Association for Trenchless Technology (AATT)

c/o TU Wien Resselgasse 5,
1040 Wien, Austria
Phone: +43 664 5184084
Email: office@grabenlos.at
Web: www.grabenlos.at



Brazilian Association for Trenchless Technology (ABRATT)

Alameda Santos, 1773 – Jardim
Paulista Sao Paulo
01419-002 Brazil
Phone: +55 11 983893450
Email: hrosas@abratt.org.br
Web: www.abratt.org.br



Australasian Society for Trenchless Technology (ASTT)

18 Frinton Place Greenwood,
6024, WA, Australia
Phone: +61 (0)8 9420 2826
Email: jeffpace@astt.com.au
Web: www.astt.com.au



Bulgarian Association for Trenchless Technology (BATT)

Kaprinka Lake Village Kazanlak
6100, Bulgaria
Phone: +359 2 4901381
Email: info@batt-bg.org
Web: www.batt-bg.org



China Hong Kong Society for Trenchless Technology (CHKSTT)

Tsimshatsui Post Office 91499 Kowloon
Hong Kong
Phone: +852 9201 1952
Email: chkstt@gmail.com
Web: www.chkstt.org



China Society of Geology - Trenchless Technology Committee (CSTT)

Xicheng District Room 151, 26
Baiwanzhuang Street, Xicheng District,
Beijing 100037 China (PR)
Phone: +86 10 6899 2605
Email: yan64843889@126.com
Web: www.cstt.org



Chinese Taipei Society for Trenchless Technology (CTSTT)

3F, No 92, Roosevelt Rd., Sec. 4,
Zhongzheng Dist, Taipei City, 100
Taiwan
Phone: +886 2 2362 0939
Email: zoradrc@gmail.com
Web: www.ctstt.org.tw/en_index.asp



Czech Society for Trenchless Technology (CzSTT)

Bezova 1658/1, 147 14 Praha 4 Czech
Republic
Phone: +420 244 062 722
Email: office@czstt.cz
Web: www.czstt.cz



Danish Society for Trenchless Technology - NoDig Infra (DKSTT)

Odinsvej 29 Silkeborg Denmark
Phone: +45 50894489
Email: tina@juul-consult.dk
Web: www.nodiginfra.dk/nodig-infra/
startside



Finnish Society for Trenchless Technology (FISTT)

c/o Sari Pietilä, Haapasuonkankaantie 10
90830 Haukipudas, Finland
Phone: +358 504132484
Email: info@fistt.net
Web: www.fistt.net



French Society for Trenchless Technology (FSTT)

4 rue des Beaumonts, F-94120
Fontenay Sous Bo, France
Phone: +33 1 53 99 90 20
Email: contact@fstt.org
Web: www.fstt.org



German Society for Trenchless Technology (GSTT)

Kurfürstenstr. 129 (Building:
German construction association)
Berlin, Germany
Phone: +49 30 81 45 59 84
Email: beyer@gstt.de
Web: www.gstt.de



Italian Association of Trenchless Technology (IATT)

Via Ruggero Fiore, 41 Rome Italy
Phone: +39 06 39721997
Email: iatt@iatt.info
Web: www.iatt.it



Iberian Society for Trenchless Technology (IBSTT)

C/ Josefa Valcarcel, 8 – 3a
PTLA 28027, Madrid, Spain
Phone: +34 913 202 884
Email: ibstt@ibstt.org
Web: www.ibstt.org



AFFILIATED SOCIETIES

ISTT Affiliated Societies around the world



Japan Society for Trenchless Technology (JSTT)

3rd Floor, Reed-C Bldg., 2-11-18,
Tomioka, Koto-ku, Tokyo 135-0047 Japan
Phone: +81 3 5639 9970
Email: office@jstt.jp
Web: www.jstt.jp



Latin American Society for Trenchless Technology (LAMSTT)

Medellín Highway (Calle 80) KM3.5
via Bogotá-Siberia south side, Bogotá
Terrestrial Cargo Terminal, Office C-12,
Cota – Cundinamarca, Colombia
Phone: +57 1 8764675
Email: cistt.arlex.toro@lamstt.org
Web: www.lamstt.org



Malaysia Association for Trenchless Technologies (MATT)

No 44, Jalan Dungun, Damansara Heights,
Kuala Lumpur 50490 Malaysia
Email: trenchless@matt.org.my
Web: www.matt.org.my



North American Society for Trenchless Technology (NASTT)

22722 29th Drive SE, STE 100,
Bothell, WA 98021
Phone: +1 888 993 9935
Email: info@nastt.org
Web: www.nastt.org



Netherlands Society for Trenchless Technology (NSTT)

Postbus 79, 3769 ZH Soesterberg,
Netherlands
Phone: +31 346 723450
Email: info@nstt.nl
Web: www.nstt.nl



Polish Foundation for Trenchless Technology (PFTT)

Ul. Warkocz 14, 25 - 253 Kielce, Poland
Phone: +48 41 34 24 450
Email: parkaa@tu.kielce.pl
Web: www.pftt.pl



The Russian Society Trenchless Technology Association (RSTT)

Severnoy proezd 12, Balashikha Moscow
region, Russian Federation
Phone: +7 (495) 521 78 82
Email: gnb.06@mail.ru
Web: www.s-gnb.ru



Southern African Society for Trenchless Technology (SASTT)

1053 Hyde Avenue, Eldoraingne ext 1,
Centurion Gauteng, South Africa
Phone: +27 (0) 82 551 7458
Email: director@sastt.org.za
Web: www.sastt.org.za



Singapore Society for Trenchless Technology (SgSTT)

84 Toh Guan Road East, Singapore Water
Exchange, #02-02 608501, Singapore
Phone: +(65) 97124054
Email: singaporestt@gmail.com
Web: www.sgstt.org.sg



Scandinavian Society for Trenchless Technology (SSTT)

Gezelius väg 12, 134 31 Gustavsberg
Sweden
Phone: +46(0) 70 438 01 54
Email: Kontakt@sstt.se
Web: www.sstt.se



Trenchless Romania Club

Kucukbakkalkoy Mah. Ali Ay Sok.
No:3/2 Roma Street, No. 16, District 1
Bucharest Romania
Phone: + 40724 550 830
Email: maria.nae@trenchlessromania.ro
Web: www.trenchlessromaniacub.ro



Turkish Society for Infrastructure and Trenchless Technology (TSITT)

Gayrettepe Mah. Huzur Sok. No:1A
Besiktas 34349 Istanbul, Turkey
Phone: +90 212 603 11 01
Email: info@akated.com
Web: www.akated.com



Ukraine Association for Modern Trenchless Technology (UAMTT)

83A Srednyaya Str., Odessa 65005 Ukraine
Phone: +380 50 3953280
Email: trenchless.as@novatec.ua
Web: www.no-dig.odessa.ua



United Kingdom Society for Trenchless Technology (UKSTT)

Camden House, Warwick Road,
Kenilworth, Warwickshire, CV8 1TH, UK
Phone: +44 (0)192 651 3773
Email: admin@ukstt.org.uk
Web: www.ukstt.org.uk



TRENCHLESS EGYPT

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- Underground Infrastructure
- Pipeline Technologies
- Underground Utilities

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- Ageing infrastructure
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SOCIETY NEWS

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WEBINAR ENTITLED: GEOTECHNICAL ASPECTS OF HDD PROJECTS

Category: HDD

Presenter: Dan Lingenauber

Organisation: TRACTO-TECHNIK GMBH & CO. KG

Date: 6 April 2023

Time: 15:00 UK (10:00 am EST US, 16:00 Berlin) Duration: 1 hour

Non-Members can join ISTT's webinars now (no fee required). Recorded videos and Presentation files are for ISTT members only (after member login). No certificates will be issued.

Subject matter: What are the most important ground parameters for HDD projects?

The significance of soil conditions for the success of HDD projects is emphasised repeatedly among experts and becomes obvious when problems occur on-site at the latest. But what are the key underground features, and how do you get a grip on them?

This webinar will give a short overview of the most important geotechnical aspects in HDD projects to illustrate the importance of soil and rock exploration in the planning stage.

The following topics will be covered:

- The most important parameters in soil and rock
- Exploration methods
- Describing and visualising of underground conditions

The presenter, Dan Lingenauber of GEOSERVICES, TRACTO-TECHNIK GMBH & CO. KG, has been a geotechnical engineer for 22 years with a background in open-pit lignite mining and geotechnical measurements in nuclear waste repository projects. He started in the HDD business working for TRACTO in 2019. TRACTO is a manufacturer of trenchless pipe-laying equipment based in Lennestadt, Germany, which has a worldwide distribution network. He consults with customers especially those involved in grid operations with geotechnical information.

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NO-DIG TÜRKİYE 2023

31 October / 01 November 2023 - Istanbul
WOW Istanbul Hotel & Convention Center

TRENCHLESS TECHNOLOGIES,
INFRASTRUCTURE CONSTRUCTIONS
MACHINERY AND EQUIPMENT FAIR

NO-DIG TÜRKİYE 2023

Theme: **Earthquake Resilient
Underground Pipelines**

WOW Istanbul Hotel and Convention Center

31 October-1 November 2023

www.nodigturkey.com

In Conjunction With



7th WATER LOSS FORUM & EXHIBITION
SU KAYIP VE KAÇAKLARI FORUMU & SERGİSİ
31 Ekim/October - 01 Kasım/November 2023 - Istanbul

www.waterlossforum.org



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T. +90 850 309 38 51 | info@maven.events
www.maven.events

For Exhibition and Sponsorship Enquiries
burak@maven.events
+90 542 308 79 74

For General Enquiries
ufuk@maven.events
+90 533 405 56 72



NORTH AMERICAN SOCIETY FOR
TRENCHLESS TECHNOLOGY

TRENCHLESS TIMES

2024 Call for Abstracts



APRIL 14-18 | PROVIDENCE, RI

NO-DIG SHOW

2024

SUBMISSION DEADLINE: JUNE 30, 2023

The North American Society for Trenchless Technology (NASTT) is now accepting abstracts for its 2024 No-Dig Show in Providence, RI at the Rhode Island Convention Center April 14-18, 2024. Prospective authors are invited to submit a 250-word abstract outlining the scope of their paper and the principal points of benefit to the trenchless industry. The abstracts must be submitted electronically at NASTT's website by June 30, 2023: nastt.org/no-dig-show.



Upcoming CONFERENCES, COURSES & EVENTS

June 28-29

New Installation Methods Good Practices Course
VIRTUAL

September 28

Trenchless for the Gas Industry Good Practices Course
VIRTUAL

October 17-18

ISTT International No-Dig Mexico
Mexico City

October 23-25

No-Dig North 2023
Edmonton, Alberta, Canada

November 16

Municipal Sewer Grouting Good Practices Course
VIRTUAL

December 13-14

Pipe Bursting Good Practices Course
VIRTUAL

April 15-17, 2024

NASTT 2024 No-Dig Show
Providence, Rhode Island

March 30 – April 3, 2025

NASTT 2025 No-Dig Show
Denver, Colorado

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

No-Dig North



The NASTT Canadian chapters work together to host No-Dig North, a must-attend event for underground infrastructure professionals doing business in Canada. The show consists of two days of technical paper presentations and industry exhibits in the trenchless technology field. Who Should Attend? The following professionals will benefit from this conference:

Municipalities: public works officials, construction and rehabilitation personnel, engineers, senior city staff and elected officials

Contractors: sewer, water, gas utility, industrial, pipeline, damage prevention and safety

Consulting Engineers: firms serving the underground infrastructure and industrial markets

Gas/Electric Utilities: officers, managers, construction, maintenance and rehabilitation personnel

Pipelines and Energy: officers, managers, construction and maintenance personnel for transmission pipeline construction, rehabilitation and maintenance

Industrial Facilities: construction and maintenance personnel, engineers and environmental assessment personnel

Damage Prevention: personnel involved in managing damage prevention and safety issues

Join us October 23-25 at the Edmonton Convention Centre.

Visit nodignorth.ca for details and registration.

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SOCIETY NEWS

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WELCOME FROM THE CHAIR



Ian Ramsay, Chair, UKSTT

The Trenchless world is well underway in 2023. Last month I visited the WWETT show in the USA and was pleasantly surprised at the developments being made in the industry that were on show during the exhibition. It was great to see the approach that many suppliers and manufacturers take to support their systems and provide the relevant training to get the most out of their products. Failures can occur due to poor preparation or lack of knowledge or training that can result in collapsed liners, failed connections or blockages so it was great to see a number of companies that take their training and education to the next level.

During the show I attended one of the conference sessions where 'WOMEN IN TRENCHLESS' was highlighted. Michelle Beason, from the Carylton Corp based in San Francisco, gave a motivating talk about how, as a senior project engineer, she manages and develops to help grow the industry. Michelle has been involved in many complex trenchless projects and I hope to highlight some of the UK's talent in the coming months.

More recently I have been involved with a very complex CIPP lining project. The pipe to be lined travels under a main railway to and from London and came with a number of challenges. Condition assessment is an important part and understanding the complexity of each project and bringing the relevant experience and skills is critical to ensure that the project and industry standards is kept at the highest level of quality.

On 21 March I was in Dublin for the first of this year's NO-DIG Roadshow series where UKSTT's Shauna Herron and Iain Naismith had put an amazing programme together. The focus for this conference was based on the role of trenchless technology in delivering major programmes for Irish Water and Northern Ireland Water. The exhibition area was the largest to date and attendance was great. I enjoyed meeting UKSTT members and catching up with everyone there. If you have not already done so, please register to attend the next NODIG roadshows taking place in Glasgow in June and Bristol in November <https://www.nodigroadshows.co.uk/>.

Until next month, please feel free to contact me anytime if you have ideas or thoughts regarding the UKSTT or the trenchless industry.

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UKSTT TECHNICAL ENQUIRY SERVICE – OVER £1 MILLION OF POTENTIAL WORK PER ANNUM

Mentioned every year in the Chair's speech at the Annual Dinner & Awards Ceremony, the UKSTT website has a dedicated link for visitors to raise technical enquiries they may have concerning the world of trenchless technology. The Technical Enquiry service is free and available to everybody through the UKSTT website. Anybody thinking of trenchless technology for a project, or with a problem for which they think there may be a trenchless solution can submit an enquiry and UKSTT will respond to the best of our ability and knowledge.

As part of the Corporate Membership benefits package many of these works, associated potential advisory/problem solutions and queries generate business directly or indirectly for our members.

The service is managed by the Society's Technical & Education sub-committee. After receipt the team review the information and either respond directly or circulate the enquiry to members who are able to offer their services.

The estimated approximate value of the potential work circulated to our corporate members through this system each year regularly exceeds £1 million.

If you have a question, please email admin@ukstt.org.uk or even better support part of the work of the Society and become a member. What's to lose give it a try.

SOCIETY NEWS

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UKSTT AWARDS 2023 CALL FOR ENTRIES DEADLINE DATE 21 JULY 2023



Each year the UKSTT makes Annual Awards to promote excellence in trenchless technology, and this year the awards will be made at the Society's Annual Dinner & Awards Ceremony that will be held at the De-Vere Tortworth Court, Bristol on the 29th November 2023. Held during the third NO-DIG Roadshow of 2023, the Awards recognise the outstanding contributions made by organisations and individuals to the promotion, use and development of Trenchless Technology in the previous calendar year.

The Awards themselves are open to all aspects of Trenchless activity. Entries for overseas projects will be accepted provided they are submitted by UK companies who either did the work or supplied the equipment, as well as entries submitted by overseas companies for work carried out in the UK.

For each of the categories a panel of independent judges, many of whom are not necessarily members of the Society, are carefully selected to be representative from a broad cross-section of the relevant industries.

The Categories for the UKSTT Awards are:

- Innovative Technology
- Detection, Location & Inspection
- New Installation – Large Project (£350K+)
- New Installation – Small Project (£70K - £350K)
- Renovation – Large Project (£350K+)
- Renovation – Small Project (£70K - £350K)
- Small Scheme (<£70K)

For further category information and criteria or to access the online application form please visit the UKSTT website:
www.ukstt.org.uk/ukstt_annual_awards_2023/

Deadline date for entries is 21 July 2023

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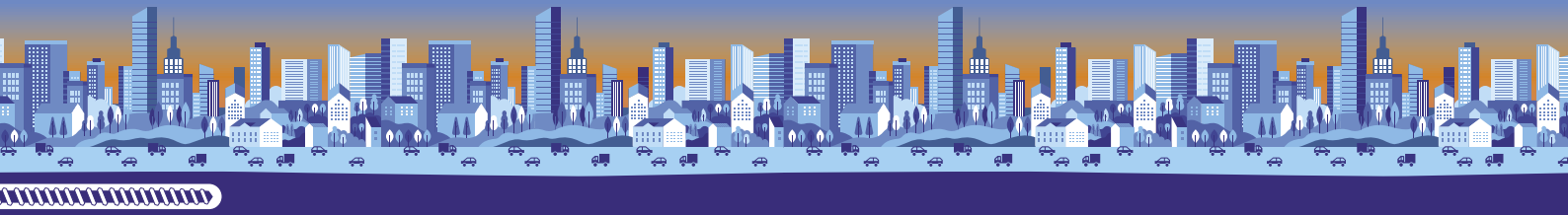
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NO-DIG ROADSHOWS 2023

2023

NO-DIG ROADSHOW



After a very successful first event in Dublin this March, join us at the following locations for our series of Roadshows and the UKSTT Annual Awards taking place in November!

NO-DIG ROADSHOW GLASGOW

DoubleTree by Hilton Westerwood
Spa & Golf Resort

Thursday 15 June 2023

NO-DIG ROADSHOW & UKSTT ANNUAL AWARDS BRISTOL

De Vere Tortworth Court, Wotton Under Edge

Wednesday 29 November 2023

To book please contact:

Gary King, gking@westrade.co.uk or +44 (0)1923 723 990

www.nodigroadshows.co.uk | +44 (0)1923 723 990 | Kathryn Boi kboi@westrade.co.uk

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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TRENCHLESSWORKS

EVENTS AND MEETINGS

2023

April 19-21: ITTC China 2023
26th China International Trenchless Technology Conference (ITTC) & Exhibition
Suzhou International Expo Centre, Suzhou, China
Details from:
<http://www.cstt.org.cn/Yhome/Index/index.html>

April 30-May 4: NASTT 2023 No-Dig Show
Portland, Oregon
Details from: www.nastt.org/no-dig-show/

May 3-5: 4th Latin American Trenchless Congress
Cartagena de Indias Convention Center,
Cartagena, Colombia
Details from:
<https://4tocongresotrenchless2023.lamstt.org/en/>

May 17-18: Trenchless Asia 2023
Kuala Lumpur Convention Centre, Malaysia.
Details from: www.trenchlessasia.com

May 24-26 May: Italia No-Dig Live 2023
Novegro Exhibition Park
Details from: <https://eventiiatt.it>

June 15: No-Dig RoadShow Glasgow
DoubleTree by Hilton Westerwood Spa & Golf Resort,
Glasgow, Scotland
Details from: www.nodigroadshows.co.uk

July 4-6: São Paulo No-Dig Show
Av. Dr. Dante Pazzanese, 120 - Vila Mariana, São Paulo
Details from:
www.abratt.org.br/eventos/sao-paulo-no-dig-show-esta-definido/

September 13 – 14: ASTT NO-DIG Downunder
Brisbane Convention and Exhibition Centre
Details from: www.nodigdownunder.com

October 17-18: International No-Dig Mexico 2023
ISTT's 39th International No-Dig Conference
and Exhibition
Expo Santa Fe, Mexico
Details from: www.no-digmexico.com/

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
Details from: www.acuus.org

November 8-9: Trenchless Egypt 2023
Cairo International Conference Centre
Details from: www.trenchlessegypt.com

November 8-9: STUVA-Expo 2023 in Munich
Messe München, Messegelände, Hall C1
81823 München, Germany
Details from:
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
Details from: www.nodigroadshows.co.uk

2024

18-19 November: International No-Dig Dubai 2024
ISTT's 40th International No-Dig Conference
and Exhibition
Dubai World Trade Centre, Dubai

If you have an event, course or meeting scheduled and would like to add it to this listing please forward details to:
editorial@trenchless-works.com