


TRENCHLESSWORKS

THE VOICE OF THE TRENCHLESS COMMUNITY **ISSUE 208** DECEMBER 2023

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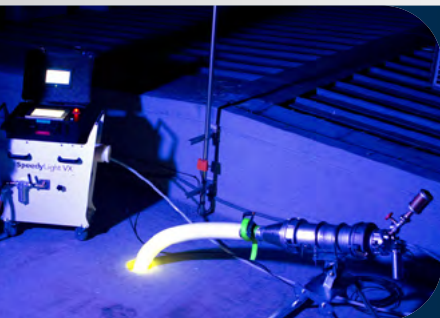
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Beyond the Ordinary

SPOTLIGHT



Ian Clarke, Editor-In-Chief,
Trenchless Works

Hello All

It only seems like a few weeks ago that we were welcoming all of you to the start of 2023! Now we are fast approaching the close of the year. For those of you that have not noticed and have yet to start, you need to think about getting the Christmas shopping done or like me you will be battling the crowds at the last minute (which is what I expect to be doing as you are reading this!).

For those of you who do not celebrate the Christmas season, I just hope that you enjoy the holiday time and for all of you, that we will see you in the New Year refreshed and ready for what looks as if it may well be a busy and hopefully productive 2024.

With that in mind I would just like to thank a few people for their support over the past year. First and foremost, our readership without whom there would be little point in producing this magazine.

Then there are our advertisers both old and new, without the support of which we would not be in a position to produce the magazine, thank you for your continued support.

Editorial content is also vital to the continuation of the magazine and so next I would like to thank our contributors, again both old and new. The interesting and informative content you provide is what makes this magazine an extremely useful tool for the Trenchless Industry across the globe.

Further to this, I would like to open the editorial content to anyone that feels they have an interesting project or piece of equipment that would make for good reading. It does not have to be novel, just interesting. Many of our readers still enjoy, and benefit from, seeing everyday uses of Trenchless being undertaken as well as those new applications that even today still seem to be coming to the fore. So, let us hear about your projects, innovations etc. from anywhere across the world, we will always enjoy reading about them.

I must also thank the ISTT and its Affiliated Societies. Their continued support and input ensure that we cover as much of Trenchless global family as we can.

Last but by no means least, my personal thanks must go to the production team at Westrade whose skills and dedication enable readers to access this magazine on their desktop, laptop, phone via email or simply by finding it on the website. Without their input these monthly issues just would not make it to air.

My thanks to you all and Merry Christmas and a Prosperous New Year to us all.

Ian Clarke
Editor-in-Chief Trenchless Works

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PAVING THE WAY FOR TRENCHLESS INNOVATION IN IBERIA

Cleaning and renovation of old or deteriorated drains and sewers from DN32-300 without digging using Picote products

In an exciting development for the trenchless technology sector in the Iberian Peninsula, JBP, a leading Trenchless Solutions Provider in the region, has entered into a strategic reseller agreement with Picote, a renowned manufacturer at the forefront of innovative solutions for pipeline maintenance and rehabilitation. This collaboration will make available cutting-edge trenchless solutions that promise efficiency, durability, and environmental sustainability and expand the range of trenchless solutions JBP is able to offer its clients, especially for smaller diameter pipe maintenance and rehabilitation.

Picote has long been a trailblazer in the trenchless technology arena, consistently pushing the boundaries of what is achievable in pipeline maintenance. With a track record of delivering state-of-the-art solutions, Picote has become synonymous with innovation and reliability. The company's commitment to addressing the unique challenges faced by the industry has positioned it as a trusted partner for professionals seeking top-tier trenchless technologies.

JBP's reputation as a leading trenchless solutions provider across the Iberian Peninsula makes it an ideal partner for Picote. The company's extensive reach, coupled with its commitment to delivering high-quality products, services and client support, aligns seamlessly with Picote's mission to enhance the efficiency and sustainability of trenchless technologies. >

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Strengthening Ties for a Common Goal

The Mini Miller is a high-speed, high torque machine for cleaning, descaling and removing roots in smaller pipes

The recently signed agreement between JBP and Picote marks a significant milestone in the trenchless technology sector. This partnership is designed to leverage the strengths of both entities, fostering innovation, and meeting the evolving needs of pipeline maintenance professionals on the Iberian Peninsula.

Key Components of this Cooperation include:

- A Comprehensive Product Portfolio - JBP gains access to Picote's comprehensive suite of trenchless technology solutions including innovative robotic cutters and high speed cleaning tools, CIPP Lining equipment, Packers and Connection systems, as well as other plumbing and robotic tools. The Iberian Peninsula will now benefit from a diverse range of products that cater to many aspects of pipeline maintenance.
- Training and Support - To ensure seamless integration and optimal use of Picote's technologies, JBP will provide extensive training programmes and technical support. This commitment to trenchless training and education underscores the partners' dedication to empowering industry professionals with the knowledge and skills needed to excel in trenchless applications. >



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Benefits for the Iberian Peninsula include:

- **Enhanced Efficiency** - Picote's innovative solutions, now readily available through JBP for Spain, Portugal and Andorra, promise to streamline pipeline maintenance processes. The use of advanced robotic cutters and rehabilitation tools will significantly reduce downtime and enhance the efficiency of projects through the Peninsula.
- **Improved Environmental Sustainability** - Trenchless technologies inherently contribute to minimising environmental impact by avoiding disruptive excavation. With Picote's solutions promoted and provided by JBP, the Iberian Peninsula can further reduce its carbon footprint, aligning with global sustainability goals.
- **Elevated Standards in Pipeline Rehabilitation** - Professionals in the region will now have access to these innovative tools for pipeline rehabilitation, raising the overall effectiveness and standards of maintenance projects. This not only ensures the longevity of the pipelines but also enhances the safety and reliability of pipeline infrastructure networks.

A Transformative Partnership

As JBP and Picote join forces through this strategic agreement, the collaborative efforts of these industry leaders are set to elevate standards, drive innovation, and pave the way for a more sustainable and efficient approach to pipeline maintenance. This partnership not only signifies a significant milestone for JBP and Picote and the trenchless technology sector in the region. As Spain, Portugal and Andorra embrace these cutting-edge solutions, it reaffirms commitment to advancements in pipeline maintenance and rehabilitation. ■

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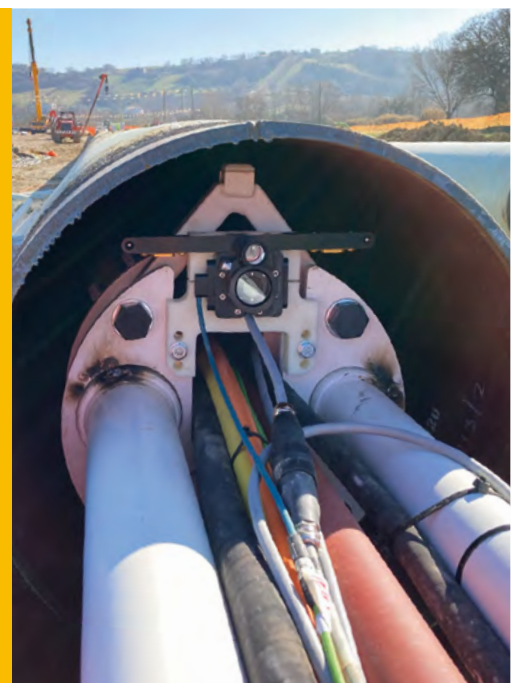
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"We are excited to now be able to better serve our customers by providing them with a wider range of exceptional construction equipment."

RSP UK TO EXPAND PRODUCT RANGE

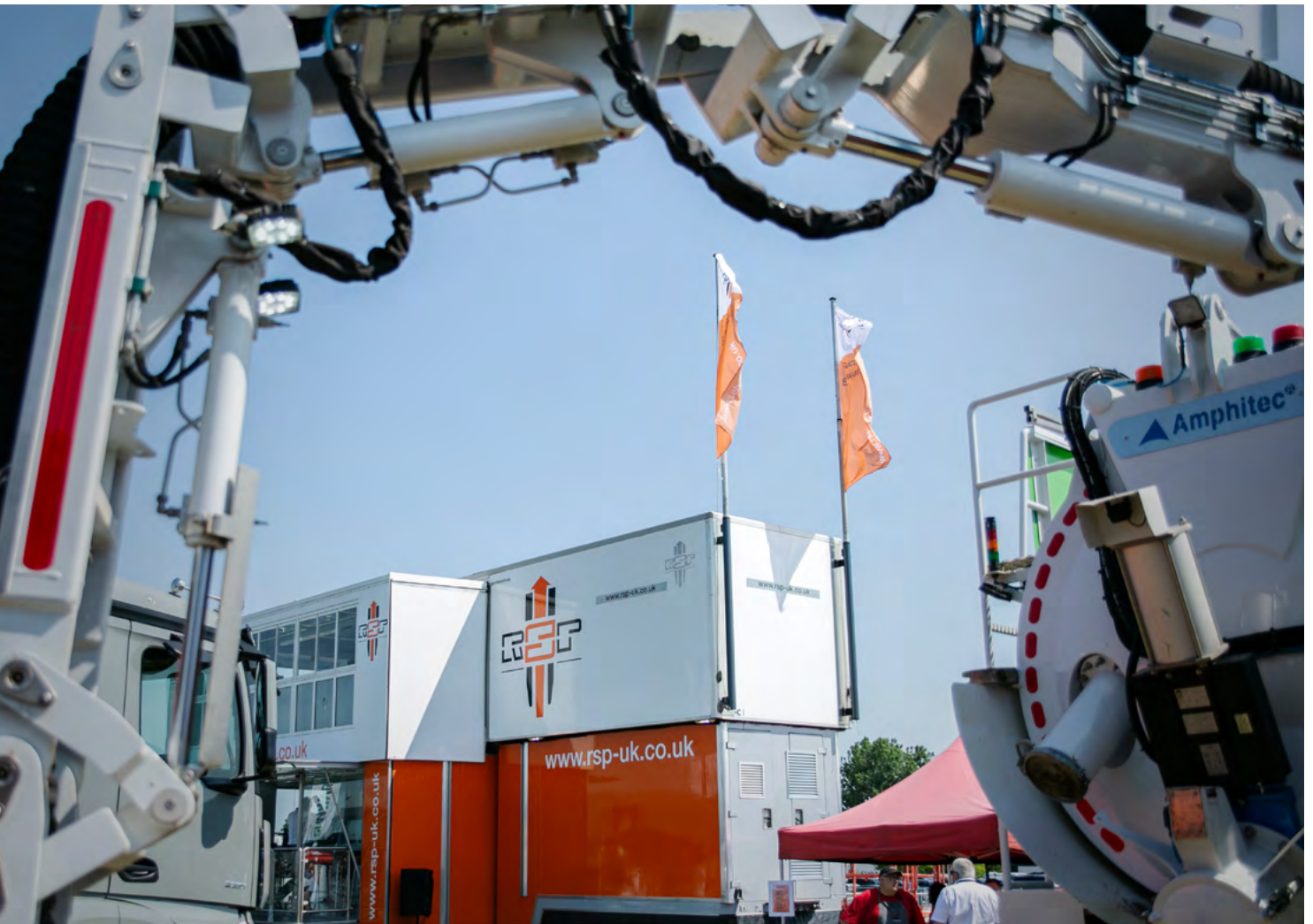
RSP UK, a leading supplier of suction excavators, recently announced plans to expand its range of construction equipment. The first new products to be added to the range are Amphitec vacuum trucks and BROCK sweepers.

Amphitec is a leading manufacturer of vacuum equipment and has changed its UK distributor to RSP UK with immediate effect. German company R&G, owner of the RSP group, acquired Amphitec and ATEC Rental in August 2022. The acquisition broadened RSP's product range with vacuum technology that is complementary to RSP's ventilation technology, and the full integration is now underway with the merger of the international sales and service organisations of both companies. >



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RSP in attendance at one of the many trade shows where it displays its range of equipment

“We are excited to now be able to better serve our customers by providing them with a wider range of exceptional construction equipment,” said Lloyd Gardener, Director of RSP UK. “We are extremely proud of the strong relationships we have built across the construction, civil engineering and utilities sectors in the UK and believe we can bring the same high-quality of production, service and maintenance, and training to our customers across a variety of products.”

“We are very happy that RSP UK is now our distributor in the UK,” said Rino Reuvekamp, Managing Director of Amphitec. “We look forward to working together to bring the benefits of our innovative products to more UK customers.”

“We are proud to partner with RSP UK,” commented Thorsten Laß, Managing Director of BROCK. “RSP UK is a well-established and respected company with a very strong track record of success in the UK market. We believe that RSP UK is the best partner to help us grow our business in the UK.”

This initial expansion of the range of products is the next step on the roadmap for the progression of RSP UK, and the driving ethos will remain to provide customers with an exceptional level of service and support, right from the initial requirement for construction equipment, through to regular service and maintenance, and training for operators.

This expansion demonstrates RSP UK’s commitment to growth and innovation and will help the company to further solidify its position as a leading supplier of construction equipment in the UK. ■



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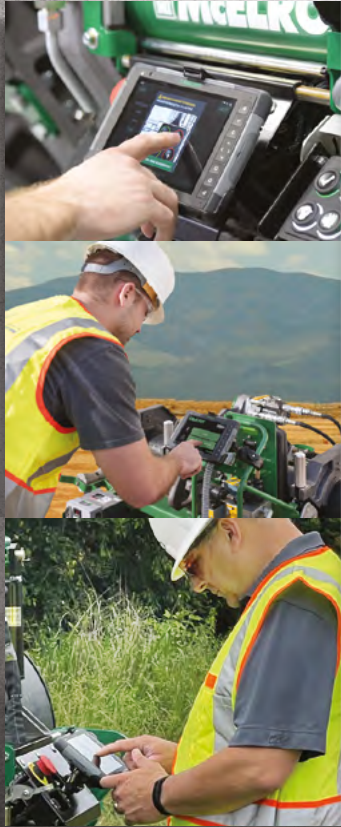


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Matt Cannon

CLANCY SECURES THAMES WATER AND SOUTH WEST WATER APPOINTMENTS

“As the water industry works to improve its resilience and deals with greater demands on its services, we are delighted to continue our partnership to support these goals.”

UK contractor, Clancy is recently announced it had secured a five-year extension to its partnership with Thames Water on Lot 2 of the water company's organisation-wide framework for AMP8.

The capital programme will provide additional resilience to the water and the wastewater network and help to protect the local environment for communities across London and the Thames Valley.

The framework has been extended until the end of the new asset management period (AMP8) in 2030 and could see Thames award up to £4 billion of investment to undertake work on all types of above and below-ground assets. This extension will work to improve and maintain Thames Water's vast network and infrastructure as it looks to reduce leakage and improve services for customers.

Under the framework Clancy will deliver a multi-million-pound trunk main scheme incorporating a 4.9 km polyethylene (PE) main from Alderbrook to Lambswood. The route will comprise of both multi-phased open cut and innovative horizontal directional drilling (HDD) techniques. Clancy has been utilising HDD in many aspects of its work to deliver projects efficiently and with minimal disruption to communities.

Previously under Thames' framework, Clancy has delivered a 2.2 km vertical rising main in Bishops Stortford, which is essential to connecting 2,500 development properties to waste treatment works. The complex project included a 500 m directional drill and two further drills under the River Store and Bourne Brook which utilised auger boring machinery to ensure works were completed on time and on budget.

Clancy and its expert civil engineering teams work across seven of the UK's water and wastewater companies, UK energy suppliers, and national infrastructure projects such as HS2 and national highway schemes. >



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Ronan Clancy, Executive Director at Clancy, said: "As the water industry works to improve its resilience and deals with greater demands on its services, we are delighted to continue our partnership to support these goals. Our commitment to excellence, innovation, and collaborative growth will continue to be the driving force behind the strong relationship we've built with Thames Water over the course of AMP7."

Matt Cannon, Chief Executive at Clancy, commented: "The extension of our appointment on this framework is a reflection of our continual drive to ensure service delivery excellence on behalf of our clients and their customers. aim to excellently deliver vital upgrades of clean and wastewater utilities to benefit local residents and businesses. The water industry is currently facing many challenges and we look forward to working with Thames over the next five years to help secure and strengthen their network capacity."

Furthermore, Clancy has been appointed to South West Water's new Capital Delivery Programme Tier 1 Delivery Partners framework to help deliver the company's pipeline of projects in clean and wastewater networks.

The move to the South West represents a new client and geography for Clancy and is the culmination of a year-long process in preparing for and responding to the bid. >



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The framework will see Clancy bring its long-standing expertise in water and civil engineering to a range of investment schemes, including the installation, refurbishment and renewal of pipelines, gravity mains and sewers, pumping stations and SUDS.

As the water sector prepares to tackle the challenges of climate change, increasing demand and customer affordability through AMP8, this framework will focus on building the resilience of the water network across the south west.

The pipeline of work will deliver investment in new connections and infrastructure, as well as targeted renewal to address changing water flows and pressures as a result of seasonal rainfall in the region.

South West Water faces other unique regional challenges due to its geography, including supporting the longest coastline of any water company in the UK throughout Devon and Cornwall. The region also has acute seasonal demand for services, with the large influx of visitors to the area during summer months placing fourfold pressure on infrastructure networks.

The framework will run for an initial five years, with the option to extend to 10 years. Work will begin in April 2024.

Ronan Clancy, executive director at Clancy, said: "We are absolutely delighted to be moving into this area of the country with South West Water. The clarity and ambition of the water company's plans and the level of investment it is putting in place make the framework really exciting for us. It was evident throughout the bid that our values aligned closely with South West Water's, and we are looking forward to working with them in the years ahead. Our culture of innovation and creative problem-solving, together with our expertise in managing complex programmes in water and wastewater, ensures we are well-placed to support the firm in delivering on its investment plans.

"As a family-run business and a direct employer, developing skills is integral to what we do. We'll be building teams based in the region, while also bringing the benefit of our expertise across the UK to bear for the South West." ■

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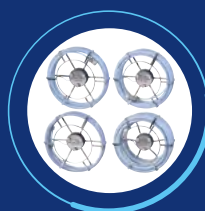
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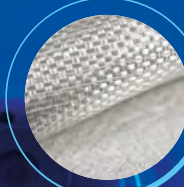


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WRC LAUNCHES CESWI 8

In October of this year, the water industry announced a record £96 billion programme of investment for the Asset Management Period #8 (AMP8), which runs from 2025 to 2030. In comparison to the previous five-year period, this represents an 88% increase in investment, one that, if approved by Ofwat, is expected to be strongly focused on improvement and development of civil engineering assets.

The publication of the 8th edition of the Civil Engineering Specification for the Water Industry (CESWI) is therefore timely as the industry moves towards a period of potentially record-breaking investment and advancement.

“The water industry invests millions of pounds a year in assets based on this specification. So, with this being a key time for it to come to the market, we are really excited to see the implementation of CESWI 8’s changes and updates across the water industry.” said Sarah Homewood – Senior Project Manager

Since its first publication in 1978, CESWI has become the standard document for civil engineering contracts let by the Water Undertakers and Sewerage Undertakers in England, Wales, and Scotland.

Previous editions of CESWI were updated every five years or more, making it quickly out of date as the years went by. With this newly developed eighth edition, amendments will be issued on an annual basis to ensure that the Specification remains current throughout its life. These up-to-the-minute amendments will be made available directly, for online versions, through a dedicated and secure website, while amendment sheets will be provided for businesses with the hardcopy version. As in the previous edition, the newly published CESWI 8 is generic in form and not tied to any particular form of contract or method of valuation. The content of the web and print version is identical.

CESWI 8 is a comprehensive, universal, and relevant Specification for the UK Water Industry. It is compatible with most nationally produced Engineering Forms of Contract and remains a valuable foundation document for use throughout the water industry. This new edition has been rewritten to reflect the experience of the UK Water Industry and the contractors since the last edition was published and includes new standards and working practices, together with new technologies and more sustainable options.

The print version of the 8th edition of the Civil Engineering Specification for the Water Industry (CESWI) is available via WRC’s Knowledge Store: <https://wrcknowledgestore.co.uk/collections/manuals/products/ceswi8>. The online version will be launching at a date to be confirmed at a later date. ■

“The water industry invests millions of pounds a year in assets based on this specification. So, with this being a key time for it to come to the market, we are really excited to see the implementation of CESWI 8’s changes and updates across the water industry.”

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The Ipsum and OTL management teams

IPSUM ACQUIRES ELECTRICAL ENGINEERING SPECIALIST OTL

Ipsum, a provider of specialist utility and infrastructure services, built on foundations of multi-year tier 1 frameworks and recurring private network maintenance agreements, supported by smart systems, is delighted to announce the acquisition of OTL Electrical Services Ltd (OTL), a highly skilled electrical engineering specialist from the Edwards family.

Wrexham-based OTL has a wealth of experience in high voltage (HV) and extra high voltage (EHV) distribution services, which includes switchgear and transformer upgrades, testing, commissioning, and asset maintenance services.

OTL marks the fourth acquisition in the power sector for Ipsum and helps strengthen our presence across Wales, Merseyside, and the Midlands, in the UK. The OTL team will complement our existing capabilities and expand our capacity to support clients in optimising infrastructure investment and navigating the clean energy transition. Stephen Edwards will remain as MD.

Stephen Edwards, MD of OTL commented: "As we have developed our relationship with Ipsum over an extended period of time, it quickly became clear to me that Ipsum was the ideal home for OTL. By becoming a part of Ipsum, we will be able to unlock the full potential of the growth within the power sector."

Richard Thomas, Chief Executive Officer of Ipsum commented: "We are delighted to have completed the acquisition of OTL, which expands our power capability and will allow us to capitalise on new energy infrastructure opportunities with new and existing customers. We offer Stephen and the team a warm welcome and look forward to supporting the future growth aspirations of the business." ■

"As we have developed our relationship with Ipsum over an extended period of time, it quickly became clear to me that Ipsum was the ideal home for OTL."

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Laura Jefferies
Head of Project Management and
SMARTester Operations

UK-based Steve Vick International (SVI) is pleased to announce the well-deserved promotions of two individuals, reflecting the company's commitment to recognising and nurturing talent.

SVI proudly congratulates Lesley Murdoch on her recent promotion to the role of Procurement, Planning and Stock Manager. With her wealth of experience and strategic mindset, Lesley is well-suited to lead SVI's purchasing function. In her new capacity, Lesley will introduce innovative processes, shape procurement strategy and oversee a range of responsibilities, including the management of direct and indirect items, raw materials, packaging, and subcontract services. Additionally, Lesley will play a pivotal role in short-term planning and stock control, contributing to the overall efficiency of SVI.

This promotion underscores SVI's commitment to fostering internal talent and empowering leaders who drive positive change within the organisation. Lesley Murdoch's contributions have been invaluable and SVI is confident that her dynamic leadership will enhance the company's procurement capabilities.

In addition, SVI is thrilled to recognise the achievements of Laura Jefferies, who has rapidly risen from Project Manager to the position of Head of Project Management and SMARTester Operations in just over six months. Laura's promotion highlights her exceptional project management skills and dedication to delivering results.

In her elevated role, Laura will lead project planning, execution and coordination, with a special emphasis on effective project management and account support. Her responsibilities extend to overseeing the smooth operation of SVI's SMARTester operations, ensuring the company continues to provide high-quality services to its clients.

These promotions exemplify SVI's commitment to nurturing talent and providing a platform for professional growth. The achievements of Lesley Murdoch and Laura Jefferies reflect their hard work and dedication, and SVI is confident that their contributions will significantly strengthen their respective departments.

SVI extends its warmest congratulations to Lesley and Laura on their well-deserved promotions and wishes them continued success in their new and exciting roles. ■



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FERNCO PROMOTION

Ryan Lockwood

Fernco, specialist manufacturer to the civils and drainage, plumbing and water management sectors, recently announced that Ryan Lockwood will take up the role of National Sales and Marketing Manager from 1 January 2024.

Signalling its growing ambition to the market, this promotion supports an expanding sales and marketing team as the company continues to invest in its manufacturing processes and R&D, reinforcing a commitment to deliver innovative new products to its customers. Joining Fernco in 2015, Ryan has had a significant impact on how Fernco interacts with its customers and has supported mutual growth through the delivery of a number of high-profile campaigns, including introducing key service and support tools and backing its successful rebrand in 2022.

Commenting on Ryan's promotion, Lee Pashley, Fernco Managing Director, said: "Since coming through the door, Ryan has had a significant impact on the way we interact with our customers and has built a team that continues to demonstrate excellence across the board. Ryan has delivered substantial commercial value and is widely respected by our customers, colleagues and other industry stakeholders. As we look to the future, now is the perfect time for Ryan to transition, supporting our ambitious sales targets and reinforcing our key messages, which he has been instrumental in cultivating. I am confident Ryan will continue to succeed in this new role and strengthen our position as a market-leading supply partner."

Preparing to start the new role in January 2024, Ryan said: "Throughout my career with Fernco, I have championed a collaborative approach to marketing and the involvement of our customers and sales teams has been essential in shaping and delivering our strategy. As I step into this new role, fully integrating both sales and marketing disciplines, I am excited to embrace the fresh responsibilities that come with it. I feel fortunate to lead such dynamic and talented colleagues and to support the development of our team in the value it creates for our customers." ■

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*Merry Christmas
and a happy new year!*

Thank you from all of our team for your support in 2023.
We hope you enjoy the holiday break. See you in the new year!



VIP-POLYMERS CELEBRATES 100 YEARS

VIP's Day at the Races

VIP-Polymers, a global leader in sealing gaskets, tunnel segment gaskets, pipeline seals, rail support products drainage couplings and adaptors, proudly marks its 100th anniversary, celebrating a century of unwavering commitment to innovation, excellence, and sustainability.

Established in 1923 the Victaulic Company was formed by Stewarts and Lloyds, steel workers and manufacturers of 'Grooved Type Victaulic Joints' which incorporated a rubber sealing ring inside the joint. The company then became part of British Steel until the early 1980s when the company was de-nationalised.

Over the years that followed VIP acquired several business' building on the expertise and knowledge, which has led to VIP being at the forefront of providing high-quality rubber sealing products for a diverse range of industries, including infrastructure, construction, transportation, and utilities. Over the past century, the company has earned a reputation for its dedication to meeting and exceeding customer expectations through cutting-edge technology and a steadfast commitment to quality and service.

Throughout its rich history, VIP-Polymers has consistently demonstrated a forward-thinking approach to business, embracing innovation and adapting to the evolving needs of the industries it serves. The company's success is built on a foundation of strong values, a talented workforce, and a customer-centric philosophy that has allowed it to thrive for 100 years. >

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Numerous local and international clients enjoyed the celebrations

“We are incredibly proud to reach this historic milestone,” said John Millar, Managing Director of VIP-Polymers. “Our journey to 100 years has been marked by resilience, innovation and a commitment to sustainability. We owe our success to the hard work and dedication of our employees, the trust of our customers and our ability to adapt to change. As we celebrate this momentous occasion, we look forward to the next century of continued growth and success.”

VIP-Polymers has been at the forefront of sustainable business practices, emphasising environmental responsibility in its operations. The company is dedicated to reducing its carbon footprint and contributing to a greener future through investments in new energy efficient machinery, the complete switch over from Petrol/Diesel company cars to EV models and the research and development of recyclable materials and processes which meet the stringent requirements of their customers.

To commemorate its centennial, VIP-Polymers hosted a Day at the Races, which commenced with a tour of its offices, factory and laboratory, based in Huntingdon Cambridgeshire, UK showing its customers a full overview of the manufacturing process, from R&D, testing, production, and quality control.

A short journey to the Jockey Club Racecourse kicked started the days main celebrations, with a wide range of customers from different industries and members of staff from all areas of the business having been invited. With a several customers travelling from Europe for the day's events it was a great way to bring everyone together to celebrate such a big milestone.

Of course, there were some big wins on the horses, but everyone that attended the event had an exciting fun packed day. Not content with a full day of racing, VIP arranged for an evening of entertainment with a casino, live music, food, and drink to complete the days celebrations.

As VIP-Polymers looks back on a century of accomplishments, it remains focused on the future, continuing to drive innovation, sustainability and excellence in rubber manufacturing and engineering at the same time as continuing to build on its relationships with current and new customers. ■

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THE RSM warehouse



A BIG THANK YOU

As 2023 draws to a close, RSM Lining Supplies Global Ltd would like to thank its customers for their continual support and business over the past 12 months.

RSM has supplied the materials and equipment for a variety of high-profile installations over the past year, distributing over 9,000 separate orders to more than 640 customers in total, and shipping to over 30 different countries. The company's global reach has expanded greatly with customers using its products all over the world, including Africa, Asia, Central and Eastern Europe, the UAE and the USA. >

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A liner impregnation facility

The number of distributors has also increased significantly, with more than 15 distributor depots in the UK and over 40 across the globe. The company has had some fantastic equipment and material sales over the year, with the dispatch of over 20 Krasotech Sluices; 74 inversion drums and 38,000 RSM Pipe Aid kits along with 2,000 packers and 200 stoppers.

None of this would have been possible without the move to the company's new premises back in 2022. With the warehouse space more than doubling, RSM has been able to increase stock levels of its core product range to ensure it is always possible offer their customers what they need, when they need it.

Additionally, the new facility has allowed RSM to house two separate impregnation stations, effectively doubling impregnation capacity. This has been incredibly beneficial to the wet-out team, proven in the number of different liners that have been impregnated throughout 2023. The team has supplied more than:

- 4,000 m of Pressure Pipe liner.
- 36 km of inversion liner impregnated with Polyester and Epoxy resins.
- Hundreds of felt liners impregnated with 26,000 kg UV LED Vinylester resin and 4,000 kg of the company's newest UV LED resin, offering a leak tight finish.

As the business continues to grow and evolve, RSM has welcomed a multitude of new staff members across all departments, including:

- 3 drivers
- 5 warehouse operatives
- 1 impregnation operative
- 2 additions to the operations team
- 4 additions to the sales team

Maintaining a close-knit community of staff has always been a priority for RSM to ensure it gets the best out of its employees and work together to guarantee customers get the finest service possible. The company is incredibly pleased to have welcomed such highly skilled individuals to the RSM team. >



Demonstrations at
the recent Open Day

RSM places high value on the continual development of its employees and has supported multiple staff members through various training courses throughout the year whilst also offering internal promotions.

Jayne Rowntree, RSM's Office Manager, recently obtained her Level 3 Apprenticeship Qualification in HR Management. Jayne has been a vital member of the finance team for the past 9 years. Beginning her career at RSM as credit controller she has gradually undertaken further responsibilities, alongside being the company's designated Mental Health First Aider, Jayne is now responsible for the HR function. Jayne is an asset to RSM and the company is incredibly pleased to have been able to support her professional development.

One of RSM's longest serving employees, Andrew Scott, received a promotion to Office Sales Manager back in April. With over 12 years' experience at RSM, Andy's commitment, knowledge and desire to ensure the best for RSM has made him the perfect fit for his new role. Andy is now responsible for the day-to-day running of the UK sales team and ensuring a high level of training is provided for all new members of the sales team.

Thursday 7 September 2023 saw the return of RSM's infamous Open Day, the first hosted at its brand-new, state-of-the-art facility. Over 250 guests experienced the opportunity to see the product range in one place, along with newly launched equipment and services, demonstrations, networking, plenty of food and drink and an incredible after party hosted by Judge Jules.

Highlights of the day included the premiere of the new Gecko Cam. This is RSM's first ever camera system which the company believes perfectly complements its current product range. It is a push rod system with a self-levelling camera, available with 40, 60, 80, and 120 m of cable. >

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Large crowds attended the Open Day



Impregnating a liner for delivery

Alongside this, RSM debuted its newest range of UV LED cure technology with the upgraded Sewertronics LEDRig, brand new Sewertronics SpeedyLight+ VX System and expanded range of UV LED resins with the introduction of its leak tight UV LED resin. UV LED LT is the only IKT tested leak tight UV cure resin available in the market and is fast becoming incredibly popular within the wastewater industry.

Additionally, the company recently expanded one of its most popular product lines to encompass two new variations. RSM Echo Liner was first introduced to the CIPP industry back in 2020 and fast became a well-known brand within the market. It offers a flexible lining solution for sewer rehabilitation and has the capability to go round bends of up to 90°. Echo liner is seam-free to guarantee optimum flexibility and compatible with all curing methods.

The new Echo Glass has a circular knit construction reinforced with fibreglass. The addition of glass offers a higher strength characteristic than with traditional Echo Liner, providing an increased level of support for the installation. Echo Diameter Change has a similar construction but includes elastomeric yarns to increase the elasticity of the liner. This means it has the capability to undertake two diameter changes, making it the perfect solution when re-lining host pipes demonstrating multiple different internal diameters. All Echo Liner variants have the capability to go round bends of up to 90° and are compatible with Epoxy, Silicate, and UV LED resins. >

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The Open Day end with a party!



RSM's main facility



Another key talking point throughout the Open Day centred around RSM's brand-new app. An industry first, RSM brings multiple aspects of the wastewater industry under one roof in a simple, easy to use app which houses helpful tools and information for users to utilise both in the office and on site. The new and improved app boasts multiple features, inclusive of an online shop, marketplace, recruitment area, resin and cure time calculators, and advertising space.

RSM's Managing Director, Richard Davis, commented: "The Open Day was a massive success. This success is a testament to the incredible teamwork, innovation and commitment that all employees bring to RSM. It reflects our collective achievements and I could not be prouder of how far we have come together. Of course, we would not be able to do what we do without the support of our customers and I would like to personally thank them for their commitment, support and loyalty over the years. I hope everyone thoroughly enjoyed the day."

RSM would like to thank all its loyal customers for their continued custom and support over the years – here's to 2024! ■

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No-Dig Roadshow Bristol



BRISTOL WAS BUZZING FOR THE NO-DIG ROADSHOW FINALE

The No-Dig Roadshow in Bristol, which took place in the stunning Tortworth Court Hotel, proved to be a spectacular finale for what has been another busy year of trenchless events for the organiser, Westrade. Supported by UKSTT South West Water and Wessex Water the event attracted nearly 400 attendees from across the trenchless community with representative from many of the country's major utilities and infrastructure providers.

The bustling exhibition floor, which was sold out weeks before the event, featured 27 of the sector's best-known product and service providers including the shows headline sponsors UIS (Innovative Utility Technologies), Stock Rentals Limited and Reinert-Ritz - Quick-Pig Station. Outside attendees were able to enjoy the sunshine and see the latest in from equipment from RSP UK Suction Excavators Ltd and Stock Rentals Limited.

Feedback from exhibitors was extremely positive with Amiblu's Technical Sales Manager, Leon Woods, saying: "In 25 years working in construction sales this is the best event I have ever attended. The calibre of attendees was extremely high ensuring that we were busy all day and I had a number of conversations that I'm confident will lead to new business opportunities."

A stellar conference programme, expertly curated by UKSTT, ensured the conference theatre remained packed to capacity with delegates keen to hear more about some of the UK's latest projects and recent advances in trenchless technology. Highlights from the programme included Water Innovation – No-Dig and The Way Forward - Jeremy Heath – Innovation Manager, SES Water (Sutton and East Surrey Water); United Utilities – Future Trenchless Needs - Katy Bevan – Operations Manager, United Utilities; Role of Trenchless in Cadent's Journey to Net Zero - Peter Atkins – Delivery Support Manager, Cadent and Groundwater Reduction in Sewerage – Efficient and Effective Delivery - Hazel Tranchant – Senior Asset Manager, South West Water. >



Stuard Hillyard
Westrade, Leon
Woods, Amiblu,
Paul Harwood
Westrade

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Conference Session
No-Dig Roadshow
Bristol

Commenting on the hugely popular event Westrade's Managing Director, Paul Harwood said: "The Bristol Roadshow built on the fantastic events held in Dublin and Glasgow earlier in the year and was a brilliant way to cap off a challenging but successful 2023. As always it has been great working with UKSTT and their outstanding team to deliver these events and the ever-popular UKSTT Awards. We look forward to continuing this truly positive relationship and benefiting from their knowledge in 2024 and beyond.

We look forward to launching our Roadshow Series for 2024 early in the year, as part of what is set to be a busy year for the trenchless community. In addition to the Roadshow Series 2024 will also feature No-Dig Live's highly anticipated return to Stoneleigh, Trenchless Middle East and Trenchless Asia all of which are proving as popular as ever with exhibition space selling out fast.

I'd like to take this opportunity to thank all our supporters, sponsors and everyone that has attended our events over the last year. I hope you all have a very merry Christmas and a happy and healthy new year. See you in 2024!" ■

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Small excavation pits at the start and end points of the section to be rehabilitated limit the impact on the direct environment to a minimum

SEWER RISING MAINS REHABILITATION - A CUSTOM-FIT SOLUTION

Sewerage systems are one of the most significant achievements of modern civilisation and lead a hidden existence. We rarely think about how wastewater gets to the sewage treatment plant and what effort is needed to clean it. Many of the sewerage systems are already in need of rehabilitation and especially the rehabilitation of sewer rising mains in the sewerage systems confronts cities and municipalities with numerous challenges. The trenchless rehabilitation method Primus Line® offers a custom-fit solution for this. >

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The Primus Liner can be inserted up to a length of 2,500 m in one piece and it is pre-folded in a U-shape for this purpose

Many sewer rising mains have one thing in common, they are part of the operators' critical infrastructure. Leakage has to be eliminated, because seepage from non-watertight sewer rising mains carries the danger of environmental damage as well as of compromising traffic and building safety. This is associated with considerable costs. A permanent rehabilitation is therefore essential.

However, sewer rising mains that need to be rehabilitated are often difficult to access. They run in densely populated inner-city areas, in ecologically valuable or even protected areas, under rivers, railway tracks or main roads. In case of rehabilitation, it is laborious to take these pipelines out of service. Therefore, a short installation time and fast recommissioning have top priority for operators. New sewer rising mains are usually designed redundantly in order to be able to maintain sewage transport in the event of failure or repair. This is not the case for older mains. During the rehabilitation period, the sewage has then normally to be pumped out and transported to the sewage treatment plant by lorries.

Failures of pressure pipelines arise by external or internal corrosion as well as by mechanical defects such as non-watertight connectors or longitudinal cracks. In many cases, the pipeline can still withstand the traffic load, but no longer the internal pressure load. Rehabilitation with other trenchless methods is often not an option. Their execution is more time-consuming, installation lengths are restricted and bends can only be traversed to a limited extent.

In view of these challenges, operators of sewer rising mains are increasingly using lining with inserted hoses for their rehabilitations. This method leaves an annular space between liner and host pipe. As with Primus Line®. >

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Existing shafts can also be used as access points for rehabilitation with Primus Line®

Flexible and fast: Primus Line®

Due to its properties, Primus Line® is predestined for use in the rehabilitation of sewer rising mains. The system consists of the liner and particularly developed connectors. The three-layer structure of the liner, with the inner and outer layer made of polyethylene (PE) or thermoplastic polyurethane (TPU) with a reinforcement of aramid fibres in between, makes the liner flexible and at the same time extremely strong. Thanks to its flexibility, the liner can pass bends up to 45° in the line run as standard.

Since sewer rising mains usually have no service connections, long insertion lengths are required. With Primus Line®, up to 2,500 m at a stretch are possible. Liner and connectors are installed via small excavation pits, generally at start and end point of the section to be rehabilitated. Existing shafts can also be used for liner insertion. This has only a minor impact on the environment, traffic can continue to flow or protected natural areas are hardly touched. The insertion speed of up to 10 m/min reduces the total installation time to a minimum. Once the connectors have been installed and the integrity of the system has been successfully tested, the pipeline can be reconnected to the network.

If it is not possible for the operators to take the sewer rising mains out of operation for a limited period due to time and cost reasons, Rädlinger primus line GmbH offers another solution – Primus Line® Overland Piping can be deployed as temporary bypass and re-used afterwards. >

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Sewer rising mains are often difficult to access or are located in protected areas, like this installation under an estuary in New Zealand

Tested quality

Safety is important when transporting contaminated water. Rädlinger primus line GmbH promises a service life of at least 50 years for its system of liner and connectors in rehabilitations and backs up this statement by vigorous qualification testing, such as cyclical load or abrasion tests.

In the load test, according to the ISO 15306 standard, a cyclic load of 75% to 125% of the maximum operating pressure is applied to the liner and connectors under test to check their effect on the burst pressure. The result after one million unrestrained cycles showed that any effect of the varying internal pressure load on the burst pressure of the Primus Liner is not verifiable. The material did not show any aging after this test.

In the abrasion test following the DIN EN 295 standard, appendix 1, the so-called 'Darmstadt Procedure', a mixture of water and materials of different grain sizes is moved back and forth on the liner's inner layer. For this purpose, a half-shell of the liner to be tested is fixed in a tipping trough. Here, too, the result after 600,000 cycles is convincing. The inner layer of the Primus Liner, which is made of polyethylene, is abrasion-resistant.

By means of the material tests in combination with a continuous factory quality control, the operator gets a safe and high-quality product for his application.

Time- and cost-saving alternative

Trenchless systems with annular space such as Primus Line® are a time- and cost-saving alternative to the rehabilitation of sewer rising mains with conventional dig-and-lay. Product and material properties relieve the operators of sewer rising mains through short installation times and fast recommissioning.

The benefits of the Primus Line® technology are also transferable to rehabilitations in the drinking water sector. The system is approved for drinking water applications in more than twenty countries. ■

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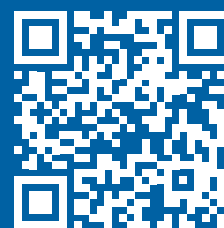


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The HELIAM SCRIM
liner tube

HAMMERHEAD ANNOUNCES ITS FIRST FULLY MANUFACTURED LINER PRODUCT



The all-cure liner, Heliam Scrim, is 'Made in the USA' and engineered to prevent longitudinal stretch for more accurate, reliable landings.

HammerHead Trenchless, a leading manufacturer of trenchless installation, rehabilitation, and replacement solutions for underground utility infrastructure, has released the newest addition to its product line – the Heliam™ Scrim Liner.

Manufactured by HammerHead at its Wisconsin-based factory, Heliam Scrim is a reinforced liner that minimises longitudinal stretch and assures accurate inversion lengths. "Heliam is engineered to reduce overshooting, so our customers can hit their exact mark without going into the main or needing to remove excess liner," said Tara Schroeder, product manager for HammerHead Trenchless. "The product requires lower inversion pressure, making it easier to invert onsite," she added.

Another benefit of Heliam Scrim is that it can be used with all curing methods, a trait that is reflected in the name. Heat (HE); light cure (LI) and ambient (AM) provide the backdrop for the name, reflecting all three CIPP curing methodologies. "With Heliam in their shop, users have a versatile product that can accommodate the curing needs of any job with added peace-of-mind of knowing they have an effective, reliable liner," said Schroeder.

Currently available in diameters of 4 in (100 mm) and 6 in (150 mm), Heliam Scrim is suitable for straight shot applications and bends up to 45°. The product will be available in either dry rolls or pre-wet out options and sold in two roll lengths: 165 ft (50 m) and 330 ft (100 m).

As with all HammerHead liner and resin systems, Heliam is tested and certified to meet and comply with industry installation standards, including ASTM F1216. "Heliam has gone through rigorous testing to ensure it meets the quality standards our customers have come to expect from HammerHead," Schroeder said. "It will perform as expected with minimal shrinkage that achieves the goal of a quality product that extends the life of the pipe." she added. ■

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Preparing liners for rehabilitation works at the Primary School

REVITALISING PRIMARY SCHOOL PLUMBING

An aging primary school facing recurring plumbing issues underwent a remarkable transformation by embracing innovative trenchless pipelining techniques. Utilising NuFlow's NuCure Cold Cure UV system, contractors revitalised over 213 m of cast iron pipes before the beginning of the new academic year. >



The Primary School classrooms were left undisturbed

A primary school found itself grappling with persistent plumbing issues stemming from its 50-year-old aging infrastructure. Past experiences with piecemeal pipe replacements left the school all too aware of the disruptive nature and financial strain such projects could impose. The school opted for regular maintenance and drain cleaning services, on average two times per month, to avoid the potential cost, destruction, and inconvenience associated with a complete pipe replacement. Then school officials met a NuFlow Certified Contractor who shared with them the benefits of trenchless pipelining as a long-term solution to the ongoing problems.

A comprehensive camera inspection of the cast iron infrastructure revealed widespread issues, including channel rot, multiple cracks, decay, and corrosion. The contractor presented a detailed project proposal to rehabilitate the system without causing any property damage, which was swiftly approved. To maximise efficiency and accelerate the production timeline of the project, the NuFlow Certified Contractor opted to use the NuCure Cold Cure UV lining system. UV gave the installer a distinct advantage over an ambient cure option. Because UV resin curing is light activated, it gave the installer complete control over the lining process, ensuring a reliable and dense cure regardless of any fluctuations in outside temperatures. In addition, since the system cures in just 10 minutes, it dramatically reduced the installation time, enabling the contractor to line a greater length of pipes per day, meaning the works would be completed on the project before the school year commenced.

Once completed, the team had successfully rehabilitated over 213 m of DN50, DN80 and DN100 cast iron pipes within the school's infrastructure. The contractor finished the project well in advance of the return of students and staff for the new academic year. Since the project's conclusion, there have been no reported instances of drain clogs, a testament to the effectiveness of the trenchless pipelining solution. ■

“SIMPLE AND EASY SYSTEM TO WORK WITH!”

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

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

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

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

Svanbjörg Vilbergsdóttir
Consultancy - Ráðgjöf og eftirlit

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SOUTH WEST PARTNERSHIP WINS PRESTIGIOUS ENVIRONMENTAL AWARD



Lining helped the south west partnership achieve the prestigious Green Apple Environmental Award


A Devon, UK-based drainage and civil engineering company has been celebrated for its innovative approach to protecting the environment while working on a scheme to upgrade a sewer pipe in Falmouth, Cornwall, UK.

Glanville Environmental, in partnership with South West Water and Public Sewer Services, won the silver Green Apple Award for Environmental Improvement after using innovative approaches under tight deadlines to upgrade a 640 m length of sewer to improve the pipe's performance and resilience.

The work posed added complications due to the sewer's location near a watercourse and holiday park, as a typical sewer replacement involves digging trenches to cut damaged sections of pipe out to be replaced. Considering the complications of where the sewer was, Glanville developed an innovative approach to get the job done while removing any potential impact to the local environment. >

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“We are thrilled and honoured to accept this recognition, which acknowledges our steadfast commitment to sustainable solutions and environmental stewardship.”

This involved only digging a trench for around 30% of the pipe, with the remaining 70% being completed by installing a protective liner inside the existing sewer. The ability to eliminate the need for excavation helped preserve the natural environment above the pipe and minimise disruption to landowners.

Using innovative solutions and tools, the team reduced the project's timeframe and minimised any possible disruption to nearby properties. The success of this work demonstrates the value of considering different solutions and utilising innovative techniques to achieve success in a more environmentally conscious way.

The collaborative work between the different teams from Glanville, South West Water, and national water and drainage service company, Public Sewer Services, demonstrates the importance of exploring new methods and innovative thinking to prioritise the protection of our natural environment.

James West, Glanville Environmental Framework Delivery Manager, said: “We are thrilled and honoured to accept this recognition, which acknowledges our steadfast commitment to sustainable solutions and environmental stewardship. Our unwavering commitment lies in relentlessly exploring the most cost-effective, secure, and eco-conscious solutions for intricate challenges. This recognition serves as a clear testament to the dedication of our exceptional team. The achievement underscores our team's enduring passion and tireless work, motivating us to continue making a positive impact on the world.”

John Evans, Head of Programme Delivery at South West Water commented: “We are delighted to celebrate our collaboration with industry experts like Glanville Environmental with this prestigious environmental award win. It is always a great moment when our hard work is recognised, and it is even more rewarding to have received national acclaim in this instance. The mix of landscapes in our region makes it a special place to look after and highlights the incredible natural environment that surrounds us, pushing us all to leave places better than we found them and explore new ways of working to help make this happen.” ■

January
2024

REHABILITATION SPECIAL ISSUE



At Trenchless Works, our aim is to provide intelligence and insights that drive quality, innovation and improves knowledge across the Trenchless sector. The December issue will feature the first of our special issues, starting with 'Rehabilitation', this highly focussed special issue will contain thought leadership articles and comment from respected industry peers, market leaders and consultants.

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SUSTAINABLE SEWER REHABILITATION WITH CAPACITY UPGRADE

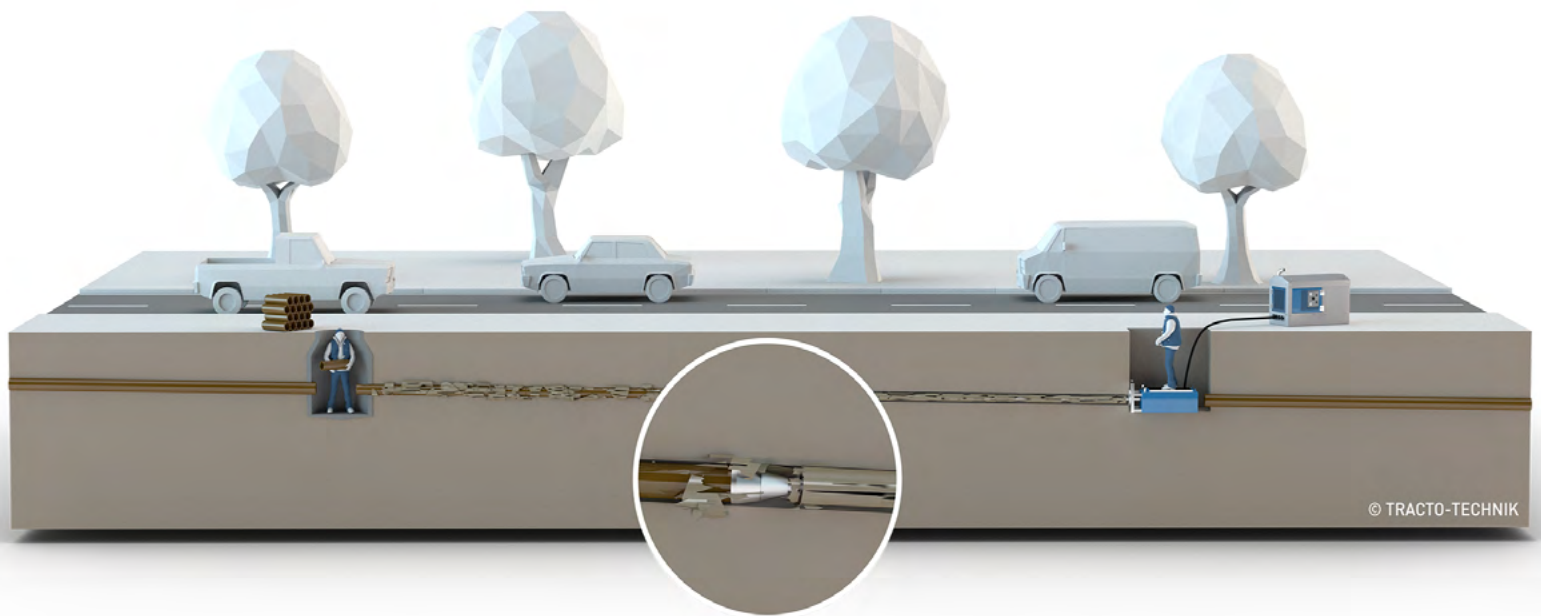
The Volkspark in Springe is a green oasis with mature trees that was not damaged in any way by the pipe renewal

It is well known that the ageing process of pipelines is accompanied by increasing damage. This also leads to massive disposal problems. While repair methods offer only a temporary solution, complete trenchless renewal using the pipe bursting method offers a permanent solution that also enables the modernisation of sewer networks.

Sewer rehabilitation is a pressing issue in many countries around the world. In Europe, too, many sewer systems are outdated, leading to wear and tear, leaks, blockages and other damage. In addition, many wastewater systems are no longer efficient enough to meet today's demands. Increasing population, urban growth and climate change are also driving the need for upgrades. >

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Schematic illustration
of the pipe bursting
method

Combined Sewers Ideal for Modernisation

The problem is particularly evident in the combined sewer systems that are widespread across Europe. In addition to wastewater from households and industry, they also collect rainwater. This is not normally a cause for concern, as both end up in treatment plants. The problem arises when wastewater leaks into the ground or when the inflow exceeds the capacity of the pipe system and treatment plants. The latter happens when more rain falls than the pipes can absorb. To prevent the rainwater/sewage mixture from backing up, it is collected in overflow basins or, if these are full or non-existent, discharged untreated into inland and coastal waters. The situation is exacerbated by the increasing frequency of climate-related heavy rainfall events. In England, for example, such pollution from overflowing, outdated combined sewers has been making headlines for years. As well as repairing leaks, here it is also necessary to increase the hydraulic capacity of the pipes.

Combined Sewer Replacement In A Recreation Area

In Germany, combined sewers also account for the largest proportion of the total length of the sewerage network, at 40.7%. The condition of the German sewer network is not bad by European standards, but around 20% of all sewers in Germany are in condition classes 0 to 2, which means that they need to be repaired or replaced in the short to medium term. This was also the case in the town of Springe, where a damaged combined sewer of DN700 was in urgent need of rehabilitation and modernisation. The solution was a complete renewal of the affected section using the static bursting method. >

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Preparations for the pipe pull-in. It is easy to imagine the dimensions of the project and the power required



The GRUNDOBURST 1900G placed inside the construction pit. From there, the rods are pushed through the old pipe and when being pulled back, the new pipe is pulled in



The old DN700 concrete pipe is broken up and the new DA800 pipe is pulled in at the same time

The 'Volkspark' in the town of Springe is an important recreational area. Very old trees characterise the atmosphere of the park, which has been in existence since the 1950s and offers ideal development and living conditions for animals and plants. There is also a playground and a miniature golf course. Although the park has undergone many changes as the city has developed, with areas being removed and new ones added, it remains an important focal point and a popular meeting place for the local population.

A DN700 concrete combined sewer in this area, built in 1990, had many cracks and fissures as well as significant root ingress, which meant that sewage was leaking into the ground. On behalf of the town of Springe, it was therefore to be renewed in two sections over a total length of 265 m using the bursting method. The pipe diameter of 700 mm could not be reduced due to the required hydraulic capacity. A polyethylene pipe OD800 x 47.4 mm made of PE 100 RC was selected as the new pipe, which was joined to the pipe string by butt welding.

The bursting process was carried out using TRACTO's GRUNDOBURST 1900G and a 920 mm diameter burst expander, which broke up the old pipe and pulled in the new pipe directly behind it. To avoid overstressing the new pipe, the pull-in process was monitored and documented online by a GRUNDOLOG III tensile force measurement system. After all, pulling forces of up to 190 t were involved! The compact GRUNDOLOG system offers easy handling on site and works with four different measuring bodies depending on the diameter. This gives it an extremely high accuracy of 0.1% of nominal. The data can be checked immediately on site and stored as a report for the contractors use or as evidence for the client.

The project was carried out by RETTBG GmbH & Co. KG of Göttingen, Germany, which has 23 years of experience in trenchless pipe rehabilitation. The company has been working with TRACTO for around 50 years and currently has four GRUNDOBURST systems of different sizes in its fleet, with which Managing Director Karsten Rettberg is very satisfied. This was also the case in Springe, where the old, displaced combined sewer was easily replaced with new OD800 mm PE pipes. >



View into the intermediate pit - the old combined sewer was offset here

The Bursting Method - Sustainable and Proven

The static bursting method, which has been tried and tested for decades, ensures the sustainable renewal of existing sewers and water mains, as today's materials have a service life of 80 to 100 years. There are no consequential costs due to subsidence, damage to roads or impact on groundwater. At the same time, the pipe diameter can be increased by inserting larger pipes if more capacity is required.

The powerful GRUNDOBURST models from TRACTO allow pipe renewal up to a diameter of 1,200 mm. The special Quick-Lock rods not only lasts longer than screw-in rods, it is also resistant to pulling and pushing and can even negotiate bends. An extensive range of accessories ensures that all old pipe materials and even pipe sections that have already been rehabilitated with hose liners can be renewed. By measuring the pulling forces during the pull-in process, the new pipes are not overstressed by the strong bursting supports, so the work can always be carried out safely and reliably. Depending on the diameter of the pipe to be renewed, the possible pipe lengths and the location of the site, there is a suitable machine type for every application situation, for example, when a sewer or pipe needs to be renewed from pit to pit, from pit to manhole or vice versa, from manhole to manhole or from pit to cellar when replacing a house connection. >

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Arrival of the new pipe in the construction pit. The bursting rods can easily be removed from the telescopic frame

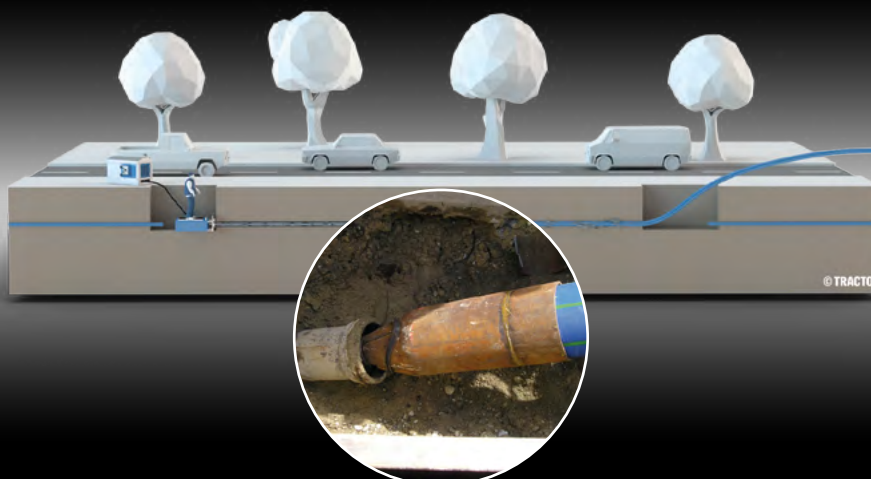
Irrespective of the type of pipe to be rehabilitated and the general conditions, the bursting method offers the most sustainable solution for pipe rehabilitation. The advantages, especially compared to trenchless repair methods include:

- Completely new, load-bearing pipeline with new service life in the existing route
- Can be used for almost all types of damage, existing and new pipe materials
- Sections already rehabilitated with pipe liners can be renewed
- Capacity adjustments are easily achieved by pulling in larger pipes
- No consequential costs due to subsidence, groundwater impact
- No installation errors, high installation quality, high compliance with regulations
- Intelligent, space-saving machine technology
- Manageable equipment and accessory requirements
- Easy and fast to use (high daily output)

As the most sustainable method of pipe rehabilitation, pipe renewal using the bursting method not only enables the permanent restoration of functionality, but also the simultaneous modernisation of pipelines. On the client side, the investment required for the rehabilitation is significantly reduced, as the method allows much larger pipe sections and diameters to be rehabilitated in a shorter period of time. Contractors working in or wanting to work in the pipe rehabilitation sector can tap into great potential for the future by using bursting technology, especially as the versatile pulling rigs can also be used for rehabilitation processes such as relining, calibre bursting or tight-in-pipe methods. ■

GRUNDOBURST - STATIC PIPE BURSTING SYSTEMS

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For more information on the most sustainable way of pipe rehabilitation contact:
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www.nodiglive.co.uk



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5-6 November 2024

Jumeirah Beach Hotel, Dubai

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REVOLUTIONISING THE UK WASTE MANAGEMENT LANDSCAPE

The CapCombi 3200 MAX FI



For over five decades, Cappellotto has held its position as one of the global leaders in the production of top-tier waste vacuum tankers. Operating across 40 European countries, the U.S. and the Middle East, the company, despite its international acclaim, remained relatively undiscovered in the UK. However, a transformative alliance with Williams Tanker Services Limited (WTS) has redefined the narrative, propelling the Cappellotto brand to new heights within a remarkably short span.

In January 2021, WTS proudly unveiled the CapCombi 2600 CL, a 26 t combination unit from Cappellotto. This versatile jetting and suction combination set, according to the manufacturer, an industry benchmark, featuring a baseline vacuum pump delivering an impressive 1,661 cfm (2,822 m³/h) and a patented 270° rotating boom prioritising operator safety and convenience. Following this groundbreaking introduction were the 26 t and 32 t recyclers, incorporating a revolutionary 5-stage recycling process that swiftly became a gold standard.

The overwhelming popularity and demand for Cappellotto units has turned them into a common sight across the country, dominating both roads and worksites.

Now, WTS is once again at the forefront of innovation with the launch of the CapCombi 3200 MAX FI. This formidable machine boasts a full stainless-steel construction, equipped with a powerful 3,000 cfm (5,250 m³/h) vacuum pump. The unit features a 270° rotating boom extendable to an impressive 7.5 m, complemented by a jetting pump with a flow rate of 76 gpm (346 l/min) at 2,973 psi (205 bar). Upholding the commitment to quality, the CapCombi 3200 MAX FI is mounted on a robust R460 8X2*6 chassis.

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Witness the evolution of waste management technology as Cappellotto and WTS continue to push boundaries, setting new industry standards with each groundbreaking introduction. ■



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TRENCHLESSWORKS






SVI SUPPORTS M25 GAS MAIN DIVERSION

The project access shaft with the grouting equipment in place

UK-based Steve Vick International (SVI), a renowned expert in innovative engineering for trenchless renovation and decommissioning of pipes on a global scale, recently announced its collaboration with industry leader Balfour Beatty on a substantial project at the M25, A3 Junction 10, commissioned by Highways England. The project involved diverting a gas main to facilitate road widening, a complex undertaking that required a wealth of expertise. SVI's Contracting Services team stepped up to the challenge, bringing unrivalled knowledge of grouting works to the forefront. >

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An aerial view of the shaft site



SVI's grouting equipment on site

Grouting works are a fundamental component in projects that involve the sealing of abandoned pipework and voids. In this case, the SVI team was entrusted with the intricate task of grouting a 630 mm diameter pipe inside a 1,200 mm diameter sleeve, expertly filling the annulus along a 90 m stretch of the gas main. The team's dedication, expertise and commitment to excellence were instrumental in the successful completion of this project. Ultimately, their contribution led to the enhancement of road infrastructure and safety while ensuring uninterrupted gas supply to customers.

SVI is widely recognised as an expert in grout filling of abandoned pipework and voids. Its highly skilled team specialises in delivering cost-effective solutions, saving both time and resources. The company's range of pipe sealants is purposefully designed for sealing off redundant pipes and voids, whether accessed directly or remotely, making them the preferred choice for complex projects like the M25, A3 Junction 10 project.

One of SVI's key products, ENDSEALS, plays a pivotal role in preventing reinstatement slump. By expertly sealing off the annular space, it is possible to eliminate the risk of backfill infiltrating the gap and causing surface slumping. Furthermore, the remote application through gravity-fed grout rigs significantly reduces disruptions, making them an ideal choice for projects in sensitive locations. Capabilities extend to filling from a distance of up to 150 m, ensuring that even the most challenging projects can be executed with precision.

Sion Roberts, a representative from Balfour Beatty, expressed satisfaction with SVI's services, stating: "The support provided by Steve Vick International was instrumental in the success of the M25, A3 Junction 10 project. Their expertise in grouting and sealing off pipework and voids played a pivotal role in ensuring the safety and efficiency of the gas main diversion."

Steve Vick International takes immense pride in its involvement in this project and its commitment to providing innovative solutions for the industry's most complex challenges. This achievement further solidifies the company's position as a trusted partner for pipeline services and technology. ■

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SOCIETY NEWS

ukstt.org.uk

Society News brought to members by Trenchless Works

WELCOME FROM THE CHAIR



Ian Ramsay, Chair, UKSTT

Well, it has been a very busy year in the UK regarding trenchless. I have just returned from a successful NO-DIG Roadshow in Bristol. What a great event! We had a record turnout, fantastic presentations, exhibition and a super evening and Awards Dinner. As I mentioned in my speech this is down to the support of the membership and also our Patrons and fantastic sponsors. Again, a massive thank you. I would also like to mention Westrade and all of Pauls team for their hard work and dedication to ensuring we had a fantastic evening that ran smoothly.

This bodes well for next year and NO-DIG Live 2024 which is back at Stoneleigh Park, Warwickshire. The UKSTT team and Westrade are planning and looking to create a really informative and dynamic event. If anyone has any thoughts, please engage with us, we would love to hear your ideas.

In addition, we are currently planning the No-Dig Roadshow programme for 2024. As well as our Patrons we are also engaging with additional authorities and are keen to hold innovative events for them. Watch this space, or see Trenchless Works and Trenchless BUZZ for more information.

Partnerships continue and I was pleased to attend the NADC awards dinner after the Floodex event in London. It was a great, and well supported evening, with a perfect opportunity to engage with different aspects of the trenchless world.

Our UK Water companies are still in the headlines with sewer spills and Directors bonuses being at the forefront. A recent BBC Panorama investigation exposed potential cover ups and issues with sewer spills. The bottom line is, there is so much more work to do. More education, more investment and more awareness in the political world of water companies, OFWAT and Government. The UKSTT continues to push and hopefully and slowly having some positive action.

Finally, as the year closes it is important to thank the UKSTT Council of 20 people who give their time for free and are dynamic and dedicated. Their efforts have really made a difference as the Society grows and moves forward.

In addition, the Society could not run without its full and part time staff. Lynn, Linda and Tammy. A big thanks for your hard work, effort and, even in frustrating times, smiles. The whole membership and Council appreciate your dedication.

Lastly, I would like to wish everyone a very happy and peaceful Christmas and a Happy New Year. Thank you for your support and I look forward to your articles and engagement in 2024.

Ian Ramsay
UKSTT Chair

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SOCIETY NEWS


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UKSTT UPDATE



Iain Naismith
Technical & Education
sub-committee Chair

The highlight event in November has been the Annual Dinner and No-Dig Roadshow conference in Bristol, where Richard Swan and I took the opportunity to give presentations on how UKSTT can help members and the wider industry, with knowledge sharing and awareness of developments in guidance and standards. We are working on the programmes of events and their content for 2024, which will be busy, with the proposed one-day UKSTT Conference, Masterclasses, No-Dig Roadshows and No-Dig Live. We are also considering how UKSTT will engage with the Trenchless Europe event in Berlin and Trenchless Middle East, which will see the inauguration of a new Middle East Society for Trenchless Technology and is the annual ISTT event. For anyone with an interest in Trenchless outside the UK these will be key events in 2024.

Carbon footprint

We continue to explore the Carbon benefits of Trenchless and you may be interested in a report that the Netherlands Society for Trenchless Technology will publish in December that compares the environmental benefits of CIPP with excavate and replace. It will be available at: <https://www.nstt.nl/>

Working Group 1 Standards, Research and Awards – by Richard Swan, Chair

The Awards Winners for 2023 have been announced and we will be considering every good response to the call for submissions for this year's awards. This is now closed and judging is nearing completion. In October we joined the follow-up meeting to the collaborative workshop on water industry standards involving UKSTT, FWA, BPF, and Water UK Standards Board among others. We will update on events for 2024 as they are announced. The aim is to raise the profile of these necessary quality and assurance measures and address the involvement of the supply chain with the water and sewerage companies.

Working Group 2 Events – by Iain Naismith, Chair

With the 2023 programme completed we are working on the details of the 2024 programme. A UKSTT Conference is being planned that will focus on the needs of network owners, a Masterclass on CIPP for pressure pipe will be held, venues for new No-Dig Roadshows will be announced and, of course, we have No-Dig Live at its new Stoneleigh venue towards the end of the year.

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

We are following up on the September meetings with representatives from universities and with Patron organisations to improve how the Society engages to meet their needs. In November a meeting was held with SGN to identify how this can be delivered to them. ■



What is your Green Footprint?

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The UKSTT Awards 2023

in Association with Westrade

THE WINNERS

UKSTT offers congratulations to all the winners at its recent Awards Ceremony and Annual Dinner and hopes to see all again next year for another fantastic event! The winners on the night included a variety of highly interesting and many novel applications and projects as follow.



INNOVATIVE TECHNOLOGY WINNER **Environmental Techniques and Good Friday Robotics for 'Drone Technology Integrated with LiDAR'**

Environmental Techniques utilises drone technology integrated with LiDAR to conduct safe and efficient sewer network surveys. The drones access hazardous and hard-to-reach areas, while LiDAR captures precise 3D data. Collaborating with water authorities, the technology has been successfully tested in the UK and Ireland, providing critical surveys for previously inaccessible assets. The 3D models offer insights into dimensions, defects, and geolocation of the sewer system. The approach enhances safety, reduces disruptions, and optimises maintenance efforts, benefiting communities and the environment.



DETECTION, LOCATION, INSPECTION **United Utilities, VAPAR, Sapphire Utilities and IPSUM for 'Using AI to create Time and Financial Savings for Inspecting Wastewater Networks'**

Innovation is a core value at United Utilities, with the objective of making services better, safer, faster, and cheaper for customers. Establishing the water industry's first 'Innovation Lab' provided the mechanism for UU to find VAPAR, a company which has the purpose to use AI to provide the fastest way to the correct pipeline asset investment decision. VAPAR's software is designed around a Collaborative Intelligence model that blends AI and engineering inputs to allow sewer inspections and investment decisions to be completed in days, not weeks. This capability and a collaborative partnership have generated a 20% saving from a 1,000 km proactive inspection programme. >

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THE WINNERS



NEW INSTALLATION (LARGE) WINNER OCU Group for 'OCU - The Corran Narrows Project'

OCU has completed a £3.4 million power cabling installation underneath Loch Linnhe. The project installed two No. 33 kV circuits and one No. 11 kV circuit 15 m underneath bedrock, replacing old cables on the seabed through Horizontal Directional Drilling and providing a reliable power supply, reducing intermittent power outages and periodic cable replacement. The project aim was to put in place infrastructure to deliver reliable power supply for local residents and businesses well into the future, while enabling conservation of the surrounding areas natural beauty. OCU's offering combines innovation, best practice, and technological advances in a challenging, highly regulated working environment.



NEW INSTALLATION (SMALL) WINNER Public Sewer Services for 'Barnet'

Situated on Mill Corner in the London Borough of Barnet, is a privately-owned house that historically flooded on numerous occasions. Investigations showed the flooding was being caused by a damaged surface water drainage pipe that was directly underneath 1 Mill Corner. The matter went to court and Barnet Council was ordered to provide a temporary and permanent solution. Public Sewer Services (PSS) were tasked with providing the permanent solution, which involved installing 230 m of new surface water drainage pipework in May/June 2022.



RENOVATION (LARGE) Environmental Techniques, Northern Ireland Water, Atkins and Dawson Wam for 'Queen's Bridge Siphons Relining'

The Queen's Bridge Siphons project by Northern Ireland Water aimed to rehabilitate twin 1,140 mm diameter sewerage siphons in Belfast, serving 40,000 people. Degrading siphons leaked freshwater, burdening downstream treatment. Minimising excavation reduced disruptions, noise, and carbon emissions, aligning with sustainable practices.

The project protected local communities, ecosystems, and river-based leisure activities. Precise drone data facilitated a custom liner for the North Siphon's reduced section ensuring that the CIPP liner was a secure fit. The relining phase avoided months of traditional civils replacement, ensuring continuous sewer operation and reduced costs. The project exemplifies technological innovation and collaboration in infrastructure development. >

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THE WINNERS



RENOVATION (SMALL)

Glanville Environmental, South West Water and RSM Lining Supplies for 'Innovative Excellence in Sewage Infrastructure Rehabilitation: Redefining Sustainable Construction Practices Using UV Lining'

In July 2022, Glanville Environmental began the Crowndale Infiltration Scheme involving reinforcing 1 km of sewer pipe along Crowndale Road to address sewage infrastructure issues in Tavistock, Devon, UK. Using the minimally invasive Sewertronics Speedylight UV system supplied by RSM Lining Supplies, this innovative CIPP liner ensured pipe integrity for over 50 years while preventing groundwater infiltration and environmental risks. This trenchless method reduced disruption, completing the project in six weeks and the Speedylight system proved sustainable and efficient, reducing curing time by over 50%, paired with the company's customer-centric approach and innovative technology, setting a standard for the industry.



SMALL SCHEME WINNER

Public Sewer Services for 'Coswarth WTW'

Public Sewer Services (PSS) was approached to urgently replace and upsize a 160 mm diameter PVC gravity reservoir drain. The drain was needed to support storage capacity improvements that had been carried out at the existing reservoir that was located in the SW.



YOUNG PROFESSIONAL WINNER

Kiran Alya Khan of Cappagh Contractors Construction (London) Ltd

Imagine the distressing scenario of having your house flooded with sewage. Unfortunately, one customer faced this very situation. However, utilising the power of trenchless technology, it was possible to effectively rehabilitate the 375 mm diameter sewer line that extended 58 m from the customer's basement to the main road. Employing this innovative approach, not only prevented further flooding incidents for the customer but also eliminated the need for extensive excavation and safeguarded the sewer line from potential future deterioration, thus protecting neighbouring properties as well. ■

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LIFETIME ACHIEVEMENT AWARD Ian Vickridge

Ian Vickridge graduated with a degree in Civil Engineering from University College London in 1968. His first posting as a civil engineer was with Sir William Halcrow in Vancouver. Ian returned to the UK in 1970 and worked on the design and site supervision of sewers and sewage treatment works before earning an MSc degree in Public Health Engineering.

Ian worked abroad in Hong Kong, Saudi Arabia, and Singapore for several years before returning to the UK in 1984 when he took up a post as a Senior Lecturer at Manchester University, where he taught Water and Environmental Engineering and undertook research and consultancy in a variety of projects related to trenchless technology, including acting as an expert witness in several cases. It was during this period that he first became interested in trenchless technology, partly as a consequence of attending the first No-Dig Conference and Exhibition in 1985. Ian remained in that post until 1999 when he started his own consultancy specialising in trenchless technology. Much of the work he was doing at the time was in Hong Kong and so it was that in 2004 he joined Black & Veatch (now Binnie) in Hong Kong as a technical director leading a team mainly involved with the trenchless rehabilitation of water mains and sewers until he retired from there in 2011 to return to UK. Whilst there he was able to pass on information on new trenchless methods to the project team to enable the problems of pipeline deterioration and leakage to be solved. He still occasionally provides technical advice to them when needed.

Ian joined ISTT after the first No-Dig conference in 1985 and, when it was decided to set up the UKSTT in 1993, he became a member of the first management team of the society and negotiated for the UKSTT office to be based within the university. Ian later became the Technical Secretary for a period and has also been Chair and Vice Chair of the Society. Apart from the time he spent in Hong Kong, Ian has been a member of UKSTT since its inception in 1993. Whilst in Hong Kong, he was a member of the China Hong Kong Society (CHKSTT) and also Chair of that Society for several years.

Ian was present at the start of the trenchless movement in the UK back in the 1980s and carried out research into social costs associated with open trenches and compared that with the social costs of trenchless methods. Bringing the social costs associated with increased traffic disruption to the attention of the community was one way by which trenchless methods were more readily accepted and paid for. Ian has been an important part of UKSTT since 1993 and still plays an important role in the running of the organisation, especially in terms of advice and technical support. Ian continues to support UKSTT'S connections within UK universities and consultancy companies. ■

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The UKSTT Awards 2023

in Association with Westrade

THE WINNERS

LIFETIME ACHIEVEMENT AWARD



JULIAN BRITTON

Congratulations also to Julian Britton for being awarded the UKSTT Lifetime Achievement Award

TRENCHLESS WOMAN OF THE YEAR AWARD



SANDRA ROLFE-DICKINSON

Further congratulations also go to Sandra Rolfe-Dickinson for being awarded the UKSTT Trenchless Woman of the Year Award.

Finally, UKSTT offers a huge thank you to all the Awards and Speaker sponsors!

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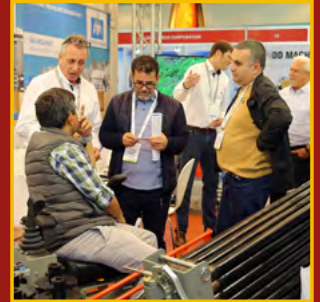
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A MESSAGE FROM THE CHAIR



Keh-Jian (Albert) Shou,
Chairman, ISTT

Dear ISTT members

Holiday Greetings! I believe most of you have experienced a busy 2023, regional, and national No-Dig events, with full attendees and exhibitors, what a prosperous year 2023 was! As you may know, in addition to International No-Dig in Mexico City, I have also attended the No-Dig events in Australia, Brazil, China, Colombia, Italy, Japan, Malaysia, Poland, Turkey, etc. in 2023. I can tell the No-Dig business is extremely vibrant after the pandemic and will continue into 2024, and even for the big potential markets of the wars in different areas. Like I did in 2023, I will try my best to visit as many events as possible to encourage our Affiliated Societies in 2024.

For the regional events like 2023 Trenchless Latin America, 2023 No-Dig Europe, and 2023 No-Dig Turkey, the organising societies successfully attracted the spotlight by integrating the governing sector, consultants, contractors, and suppliers in the trenchless business. Especially, due to the demands and challenges in their region, those challenges also create good opportunities for trenchless business. At these events, surprisingly and gladly, we also found local developments of new trenchless technologies. In addition, like the cooperation between JSTT and CTSTT, the bi-lateral and multi-lateral cooperation also become a trend which could help in developing new technologies and good business. Therefore, I believe the ISTT will grow stronger through these cooperation activities.

As you may know, we keep hosting the ISTT educational webinars, that can be replayed in the member space. The last one was 'Key findings from a comparison of pressure sewer rehabilitation technologies' by Iain Naismith of IKT, on 12 December, 2023. To those that attended, thank you for registering for and attending this extraordinary webinar. ISTT's TEC committee is now planning to have more in 2024. I would like to let you know that ISTT is trying to provide more services to our Affiliated Societies through our website and other communication channels. To enhance our service, we will also include your feedback to the survey by Outreach and Marketing committee. However, please feel free to provide your comments and suggestions any time.

Finally, I wish you and your family a Merry Christmas and Happy New Year!

Keh-Jian (Albert) Shou
Chair, ISTT



TRENCHLESS ASIA 2024

16-17 July

World Trade Center Metro Manila, Philippines

The thirteenth event in this outstanding series travels to Manila.

TRENCHLESS ASIA is the major annual international gathering for trenchless technologists to meet and discuss the latest industry developments featuring:

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ISTT News brought to members by Trenchless Works

CALL FOR COMMITTEE MEMBERS 2024

ISTT is pleased to announce solicitation of applications for its committees for the year 2024. Committees form the heart of ISTT. Please consider volunteering to join international colleagues in the important work of promoting and developing trenchless technology. This is an exclusive opportunity for members of ISTT's Affiliated Societies.

For more information, please visit the ISTT website:

<https://www.istt.com/main/task.announcement/id.olsgk26Q4z6pddAr8GxqFg==>

Committees

ISTT maintains seven standing committees. Please [click here](#) for committee descriptions, their purposes, and their current members. They include:

1. International No-Dig Committee
2. Membership Committee
3. Support Fund Committee
4. Technology and Education Committee
5. Outreach and Marketing Committee
6. Finance Committee
7. Governance Committee

How to Apply

Applicants should complete the **application form** by **27 December 2023**.

An applicant is required to upload a CV and provide relevant experience related to the committee or a 'statement of interest' if they have no experience. If potential applicants have questions, please contact info@istt.com ■



RESILIENT AND STRUCTURAL TRENCHLESS WATERMAIN PIPE RENEWAL TECHNOLOGY



ISTT Webinar:

Presenter: Martin Bureau

Organization: ALTRA SANEXEN

Date: 8 February 2024

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

ISTT recently announced this webinar which will present the results of a seismic resiliency evaluation programme of a structural Cured-in-Place Pipe (CIPP) AWWA-Class IV watermain renewal technology, which was used for deteriorated legacy water main renewal and strengthening against earthquake and natural hazard effects. This CIPP product is a composite lining consisting of an inner and outer layer or jacket, produced by circular weaving of continuous textile yarns, impregnated with an epoxy. This product is used to renew water mains by insertion at access pits, without the need for complete excavation of the pipe to be replaced. To this date, more than 2,400 km of watermain, mainly in North America, have been renewed with this technology.

The product was evaluated at Cornell University's Large-Scale Lifelines Laboratory, through a large-scale fault rupture test during which the CIPP-lined ductile iron (DI) watermain, comprising five pipe sections, was progressively subjected to very large tensile and bending loads, first resulting in the watermain failure due to joint opening, until debonding and full detachment of the CIPP from the watermain, leading to extensive extension and bending of the CIPP. Debonding loads of at least 120 kN were measured during testing. Throughout the test, the lined watermain was able to accommodate significant fault movement through axial pullout and rotation of the joints, including a maximum 0.77 m of axial extension (average tensile strain of 6.2%) and lateral offset by 14°-rotation of the two joints closest to the fault. Despite such large deformations the CIPP remained structurally sound and retained water pressure as no water leakage was observed. Post-fault-rupture testing of the liner indicated that residual mechanical properties were similar to pristine liner properties. >

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Before



After



About Martin Bureau

Dr Martin Bureau began his career in Engineering in 1992, with a Bachelor of Engineering in Metallurgy, followed by a Master's degree in Physical Metallurgy and a Doctorate in Materials Science. He worked in applied research at the National Research Council of Canada (NRC). He has authored more than 200 scientific journal articles and international conference reviews and is co-author of more than 40 patents.

Today, he and his team are spearheading Sanexen's exciting and innovative technology, ALTRA Proven Solutions, tackling the most important water challenges facing cities across North America.

To register for the webinar please visit:
<https://istt.com/index/webapp-registrant-form/id.23>

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“ Because of NASTT, I have a pretty stacked tool belt that helps me bring innovative approaches to infrastructure concerns. My experiences with trenchless technologies gives me a ‘leg-up’ over others. ”

~ Eric Schuler, PE, Onondaga County Department Water Environment Protection



Education Second to None

“ NASTT is far and away the leading educator and networking pool in the trenchless industry. If your company plays a part in the trenchless industry, you will benefit from NASTT membership much more than you realize. ”

~ Joe Lane, Aegion Corp.



Tops at Staying on Top of the Industry

“ I first joined NASTT to stay current on technological developments, best practices and market trends. Participating in NASTT committees and events and accessing its expert mentors and professionals is essential to the success of almost any project. ”

~ Marya Jetten, Jacobs Engineering Group



Amazing Network

“ NASTT has been the most significant vehicle relative to the industry-specific connections I've made and cultivated throughout my career. ”

~ Cindy Preuss, PE, CDM Smith



Membership Helps Me Strut My Stuff

“ I would not be doing what I love to do without the presence and impact of NASTT. I wanted the industry to know about a record HDD project and NASTT gave me the access and opportunity to tell to the industry. ”

~ Jim Murphy, UniversalPegasus International



nastt.org/membership

membership@nastt.org
888-388-2554

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NASTT UPCOMING EVENTS

January 16, 2024

Pacific Northwest Trenchless Symposium & Short Course
Seatac, Washington, USA

April 17-18, 2024

NASTT's HDD Good Practices Course
Providence, Rhode Island, USA

April 14-18, 2024

NASTT 2024 No-Dig Show
Providence, Rhode Island, USA

April 17-18, 2024

NASTT's New Installation Methods Good Practices Course
Providence, Rhode Island, USA

April 14, 2024

NASTT's Intro to New Installation Methods Good Practices Course
Providence, Rhode Island, USA

April 17-18, 2024

NASTT's Pipe Bursting Good Practices Course
Providence, Rhode Island, USA

April 14, 2024

NASTT's Intro to Rehabilitation Good Practices Course
Providence, Rhode Island, USA

October 21-23, 2024

No-Dig North 2024
Niagara Falls, Ontario, Canada

April 14, 2024

NASTT's Municipal Sewer Grouting Good Practices Course
Providence, Rhode Island, USA

March 30 – April 3, 2025

NASTT 2025 No-Dig Show
Denver, Colorado, USA

April 17-18, 2024

NASTT's CIPP Good Practices Course
Providence, Rhode Island, USA

March 29 - April 2, 2026

NASTT 2026 No-Dig Show
Palm Springs, California, USA

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



AFFILIATED SOCIETIES

ISTT Affiliated Societies around the world



Austrian Association for Trenchless Technology (AATT)

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Chinese Taipei Society for Trenchless Technology (CTSTT)

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Danish Society for Trenchless Technology - NoDig Infra (DKSTT)

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startside



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EVENTS AND MEETINGS

2024

February 2 Annual meeting and conference

DKSTT 2024:

Hotel Kolding Fjord, Fjordvej 154, Kolding,
Danmark, 6000

tina@juul-consult.dk

March 5-6 European No-Dig 2024:

Hotel Andels Vienna House, Berlin

www.european-nodig.com

April 24-26 ITTC 2024:

Changsha International Convention and
Exhibition Center, China

www.cstt.org.cn/

July 16-17 Trenchless Asia 2024:

World Trade Center Metro Manila, Philippines

www.trenchlessasia.com

October 1-3 No-Dig Live 2024:

Featuring the UKSTT Gala Dinner & Awards Ceremony

NAEC Stoneleigh Park, Warwickshire

www.nodigliver.co.uk

October 23-24 No-Dig Turkiye 2024 Conference and
Exhibition

WOW Istanbul Hotel and Convention Center

www.nodigturkey.com

5-6 November: Trenchless Middle East 2024
Featuring the ISTT International No-Dig
Conference

Jumeirah Beach Hotel, Dubai

www.trenchlessmiddleeast.com

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