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GLASS-FIBRE REINFORCED LINERS HELP KEEP THE LIGHTS ON AT DRAX

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ian@nodigmedia.co.uk by 10 July, 2012
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INDUSTRY, COMPANY AND INSTITUTION NEWS AND RESEARCH



CHANGING FACES AT HAMMERHEAD

Jarrett Cowden, Senior VP Sales & Marketing has announced his retirement plans and will retire at the end of July, 2012. Cowden, a veteran of the utility construction equipment industry has provided leadership since January 2007 to HammerHead Trenchless.

Cowden was previously Vice President, Sales and Marketing at Vermeer Manufacturing, Director of Business Development at Ingersoll Rand, Director of Marketing at Ditch Witch, (a division of the Charles Machine Works), Director of Sales at SherrillTree, and Marketing Representative for Exxon. Jarrett was also cofounder and President of Two Rivers Marketing Group.

“Replacing Jarrett’s leadership, experience, and presence will be challenging. I have had the pleasure of working with Jarrett over several years, in different settings and he has proven himself as a leader in our industry, who is well respected, a friend, and mentor with a unique ability to see well into the future regarding changes in our markets,” said Brian Metcalf, CEO, HammerHead Trenchless Equipment. “He is a very innovative and strategic marketing professional. Jarrett will remain close to the HammerHead family and I look forward to his continued friendship, support, and mentoring in the coming years.”

Cowden plans on enjoying retirement with his wife of 44 years, Susan, who has been his support throughout his career, including involvement with him in the Distribution Contractors Association. Added Brian Metcalf, “I’m confident Jarrett will enjoy retirement and spending more time with family, friends, and his outdoor adventures, including teaching his wife, Susan, how to fly fish.”

Replacing Cowden is Paul Rogers, a 39-year-veteran of the trenchless industry. Jarrett will assist with the transition of sales responsibilities to Rogers and will focus on special projects until the end of July.

Rogers is a native of Oklahoma and a 1971 graduate of Oklahoma State University. Immediately after graduation from OSU, Paul was employed by The Charles Machine Works, Inc., manufacturer of Ditch Witch underground construction equipment where he held various positions in both domestic and international marketing within that organisation including Director of Sales worldwide.

In 1993 he purchased Ditch Witch equipment dealerships for Southern California. He owned and managed distribution for all of Southern California until he sold his dealerships in 2003. Paul has extensive knowledge in the installation of underground utilities using various trenchless methods including pipe bursting, pipe ramming and horizontal directional drilling.

For the past two years, Rogers has been the Global Accounts Manager and Western Regional Sales Manager for HammerHead.

Rogers will lead the HammerHead sales team with more than thirty-seven years of experience in the underground construction industry. Website:

www.hammerheadtrenchless.com

*Top: Jarrett Cowden, retires as Hammerhead Senior VP Sales & Marketing.
Bottom: Newly appointed to replace Jarrett Cowden is Paul Rogers.*



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INDUSTRY, COMPANY AND INSTITUTION NEWS AND RESEARCH



CERTAINTEED PARTNERS WITH VERMEER® AT ACE 2012

Engineers, utility managers, contractors and other water industry professionals recently saw firsthand how they can save time and money with Certa-Lok™ restrained-joint PVC pipe from CertainTeed and the Vermeer® AXIS™ laser guided boring system at the American Water Works Association (AWWA) 2012 Annual Conference & Exposition which was held between June 10-13 in Dallas, Texas, USA. CertainTeed's complete line of restrained-joint PVC pipe and key components of the Vermeer AXIS system were on display at the CertainTeed booth.

"The proven performance of Certa-Lok's spline-locking technology coupled with AXIS' exceptional boring control and precision create an ideal alternative for the replacement or addition of potable water, force main sewer and in particular, gravity sewer systems," said John Coogan, channel marketing and communications manager for CertainTeed's Pipe & Foundations Group. "Unlike other pipe materials, Certa-Lok will not corrode over time, and because it does not require special tools or adhesives to install, it can easily be assembled in the pit as pullback continues."

In response to growing recognition of the economic and environmental advantages of trenchless pipe installation and replacement, CertainTeed recently expanded its Certa-Lok range to include an integral bell option on its 100 mm (4 in), 150 mm (6 in) and 200 mm (8 in) C900 pipe. The company also added a 355 mm (14 in) diameter C905 option. All Certa-Lok pipe features a mechanical joining system, which utilises a combination of precision-machined grooves and a nylon spline to provide exceptional tensile strength in pulling or pushing operations. Rounding out the design, a flexible elastomeric gasket provides a solid pressure-certified hydraulic seal.

Unlike HDPE or fusible PVC pipe, Certa-Lok enabled pipe products do not require costly on-site fusion operations and can be assembled in real time as pullback continues, eliminating the need to string out several hundred feet of pipe within or beyond the work zone.

The Vermeer AXIS laser guided boring system is a pit-launched trenchless installation method designed to achieve pinpoint, on-grade accuracy while eliminating many of the difficult steps associated with other installation techniques. It is optimised for pipeline installations up to 100 m (350 ft) in length, which is ideal for manhole-to-manhole projects. Most importantly, it is fully capable of maintaining precise on-grade accuracy, which is critically required for gravity sewer pipe systems. A closed-circuit camera integrated into the drill head allows the operator to constantly monitor the line and grade of the bore via a laser guide. As the bore continues, displaced soil is vacuumed out through a hollow section in the drill head, eliminating the need to suspend drilling to manually handle spoil. "Vermeer's AXIS system and Certa-Lok restrained-joint PVC pipe present a cost-effective solution for ensuring a strong national infrastructure that will stand the test of time." said Jason Zylstra, marketing manager for Vermeer. Website: www.certa-lok.com

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PIPELINE REHABILITATION

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GLASS-FIBRE REINFORCED LINERS HELP KEEP THE LIGHTS ON AT DRAX

During 2011, Insituform Technologies Ltd (ITL) completed a challenging project to renovate a water intake main serving the Drax Power Station, a power generation plant that is the largest coal-fired power station in the UK. Known as the 'Make Up B Line Rehabilitation', the project was designed to secure raw water supplies to the power station's cooling water systems. To complete the project a total of 1.2 km of 1,067 mm diameter water intake pipe needed to be rehabilitated. The pipe is one of a set of pipes that takes water from a pump house at the nearby river that is used to provide the cooling water. This water is then fed to the cooling towers at the Drax Power Station.



Approaching the Drax Power Station along the pipeline route.

The work was required to repair the existing multi-jointed steel pipeline which was suffering from the effects of corrosion.

Given the nature of the operational requirements of the pipeline it was decided that lining with ITL's Cured-In-Place-Pipe (CIPP) InsituMain[®] pressure pipe system, with the capacity to offer a working pressure capacity of 10 bar, would be most suitable. This option was selected because it met the client's aims and requirements by providing the most cost-effective and long term solution over the life of the pipeline as well as providing a smooth finish inside the pipeline to minimise friction within the pipe and therefore recovering some of the loss of flow due to reduced internal diameter. This was also the first time that the InsituMain[®] renovation system has been used to complete a pipe lining project of this diameter anywhere in the UK.

There were several reasons why the InsituMain[®] system was selected for the Drax rehabilitation project. First of all, its small operational footprint allowed ITL to efficiently install long lengths of lining with minimal excavation and therefore minimal disruption to the local environment and reduced risk of disturbance to the adjacent operational line. This was probably one of the main driving forces behind the method of choice as protection of the environment and the local wildlife was of paramount concern to the Drax operation. By establishing good access points within a recognised and highly valued conservation area with a wide variety of wildlife for the long lining operations, transport movements were also minimised and minimum equipment movement around the site was achieved. The relatively remote location of the site also meant that the project could be undertaken without any interruption to or impact on the daily life and routines of any of local residents, as no residences or other businesses are located along the actual pipeline route.

Furthermore, the structurally independent liner design (see later) and the speed with which the installations could be achieved were also significant factors as this in turn helped to both further minimise the effects on the conservation area and ensure the longevity of the rehabilitated pipe without reliance on any residual structural soundness of the host pipe. The fact that the rehabilitation operations would not impact the operations of the power station in any way also added to choice of the InsituMain[®] technique, thereby minimising the overall costs to the power station.



INSTALLATIONS

Given the total 1.2 km length of the pipe, the rehabilitation lining operations were split into three individual liner installations to minimise the number of liner set-ups required whilst maximising the efficiency of the installation process. Two of the liners were each about 350 m in length with a final installation of over 400 m. The requirement to work within the

Preparing the liners for the Drax installations at the ITL site in Wellingborough.

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conservation area with minimal disruption to the environment made the project challenging. The open landscape and variations of ground conditions proved difficult in terms of plant and vehicle accessibility. It was therefore necessary to utilise the services of a civil contractor to prepare the ground and provide access points and a portable track way, as well to prepare a suitable area for positioning of vehicles and other plant and equipment that was required for each of the lining processes. All the civil works were overseen by ITL staff to ensure they were ultimately fit for purpose.



Installing the InsituMain® liner on one of the Drax lining runs.

The landscape also meant that investigations needed to be carefully undertaken and studied so that each of the liner launch sites was carefully selected to ensure they were the most suitable points to successfully invert the InsituMain® product to its maximum potential.

Preparatory works at the site commenced on 19 September 2011 and ITL was able to make use of Drax's innovative conceptual 'letterbox' access technique which included the dismantling of an air valve chamber at a point where one of the installations was to take place. This included the removal of a reinforced concrete floor on either side of the host pipe to expose the pipe crown from the 9 o'clock to the 3 o'clock position. The pipe crown was then cut and removed to provide access for the liner installation into that pipe section. All of this access work had to then be reinstated on completion of that section. The client designed and supplied air valves which had to be fitted by ITL directly onto the liner at various air chambers along the whole pipe length. All air chambers had to be tested and approved on completion of each lining run.

Liner installation works started with the first lining on 8 October 2011. The second lining took place on 14 October 2011 with the third lining being installed on 26 October 2011.

Given the size of the liners, the installation process had to be carefully monitored and controlled to ensure a smooth installation and a high-quality final product after curing. Installations were completed without incident either procedurally or from a safety viewpoint. The project was completed both on time and to budget with all reinstatement works done and equipment off-site by 18 November 2011.

ITL's Project Manager for the Drax installations, Keith Bradely, said of the site: "Our major difficulty and challenge on this project was access. We were extremely confident that our product would perform, once installed just how the Drax engineers wanted. What we had to do was get it into place. The conservation of the site was very important. Our ability to achieve the renovation with limited impact on the site by using the temporary accesses and the ability to install the liners through existing pipe access points gave us a significant advantage over other potential renovation options. Our team worked very closely with Drax's engineers to achieve the outcome sought by the client. Ultimately I am proud to say ITL achieved everything that was asked of us."

Commenting on the project for Drax Power Station, Bob McLaughlin, Consultant Engineer said: "One of the major factors associated with the Make Up Line B project was the requirement to minimise the need for excavation along the pipe route to facilitate the rehabilitation process. The option presented by ITL allowed the line to be renovated utilising access points at existing manholes with limited need for enlargement for liner access. The facility was able to add in the new air valves once the lining was completed without additional major excavation. This gave us exactly what we needed. The project was a complete success for us as a company and for the conservation area as a whole."

THE INSITUMAIN® SYSTEM

InsituMain® is a custom-engineered, structurally independent cured-in-place pipe (CIPP) renovation product designed to eliminate leakage and prevent internal corrosion and/or erosion in deteriorated pressure pipelines. The system is installed using water inversion and hot water curing techniques. Once installed, InsituMain® is completely independent of the host pipe in terms of handling internal



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loadings and internal pressure and is a stand-alone design that can operate at up to 10 bar. The system is independent of the host pipe in terms of external loading as the design takes account of potential loadings from the surrounding soil, groundwater, traffic loadings and other 'live' loads. This means that the liner effectively provides to the client a replacement pipe that is totally independent of the host pipe and does not rely on any bond between the host pipe and the liner as is found in many other rehabilitation lining systems.



The end seal of a completed liner installation.

InsituMain® is designed for diameter ranges from 200 mm (8 in) to 1,500 mm (60 in) and is suitable for cast/ductile iron, steel, asbestos cement, RCP and thermoplastic pipes. It has the flexibility to expand and transfer internal pressure loading to the host pipe while maintaining the ability to span any small holes, pits or open joints that may exist in the host pipe. The glass-fibre reinforcing means the system is a strong yet thin wall liner which has a close fit to the host pipe and so minimises reduction in flow cross section and therefore capacity loss.

According to John Beech, Business Development Manager for ITL: "One of the keys to the success of this project was efficiency. Key timing and planning from all of those involved leading up to the actual liner installations was vital. From initial communication amongst all the parties involved with planning the project through the manufacture of the InsituMain® linings to resin impregnation and delivery to site and then finally the lining installations and curing of individual liners to completion and final fitting of the new air valves, efficiency across the client and contractor teams working together proved to be second to none. Further to this, the methodology and the technology behind the InsituMain® product, as an independent liner which truly gives a new independently structural pipe within a pipe which does not rely on residual strength in or bonding with the host pipe, gave the client exactly what it was looking for in a long term renovation solution." Website: www.insituform.co.uk

CENTRAL EU PRODUCT SUPPORT FOR SPR

SPR Europe is strengthening its production competence in association with Esilon BV. Esilon BV is an extrusion and injection moulding company based in Roermond, the Netherlands, which produces PVC profiles used for the innovative SPR™ spiral-wound pipe lining method.

SPR Europe not only develops innovative technologies for trenchless pipe rehabilitation and employs them with a high degree of construction expertise at sites all over the world, but also manufactures rehabilitation products as an integrated operation within the Group. The Dutch company Esilon has



The profile strips for the SPR™ spiral-wound system are manufactured at Esilon using a highly specialised extrusion process according to strict quality standards.

belonged to Japanese SEKISUI parent company concern since 1974. Since November 2011 it has also produced the PVC profiles on which the SPR™ spiral-wound pipe lining method for the rehabilitation of sewage pipes is based. Besides the steel component, which is still installed in endless strips to ensure good liner strength, the new extruder for SPR™ at the Esilon plant works at a capacity of 500 t of PVC strips per year. The SPR™ profiles are manufactured mainly for the European sewer market, while the SPR Group subsidiary SEKISUI Rib Loc in Adelaide, Australia,

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continues to supply the region with all other spiral-wound products.

Hiroide Nakagawa, CTO at SEKISUI SPR Europe GmbH, is delighted about the new SPR™ production plant in Europe: “With Eslon we have an experienced plastics specialist for SPR™ production that satisfies the high Japanese quality standards. Already in the past it has built manufacturing facilities for international products in Europe.”

Holger Zinn, Managing Director of KMG Pipe Technologies GmbH, is likewise proud of the extended competence in SPR™ technology: “The plant has decade-long experience in PVC compound extrusion and injection moulding technology. The local production of the SPR™ profile demonstrates how far the establishment of spiral-wound pipe lining technologies has progressed in Europe. Now we can supply the European sewer market promptly and consistently, in line with growing customer demands.”

Headquartered in Schieder-Schwalenberg, Germany, SPR Europe offers three key technologies for the trenchless rehabilitation of water, sewerage and gas networks: the spiral-wound and cured-in-place pipe lining methods as well as the Close-Fit Lining. The products are developed by the technology companies SEKISUI NordiTube, r.tec and Eslon and manufactured at plants in Germany, Belgium and the Netherlands. Website: www.sekisuispr.com



From the left: Sumiyasu Fujii (Managing Director Eslon BV), Kozo Takami (President UIEP Company, SEKISUI Chemical Co., Ltd.) and Edmund Luksch (Division Manager, SPR Group, SEKISUI Chemical Co., Ltd.) officially open the new production line for SPR™ PVC profiles at Eslon in Roermond, Netherlands.

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RECORD PIPEBURST IN LINZ

In the Austrian town of Linz, the importance of trenchless pipe replacement has once again shown its worth. Generally the utilisation of boring rigs is seen as environmentally friendly, especially in inner-city areas where the underground construction of new installations and the renewal of pressure and sewage pipes can be completed with shorter construction times. Also, there is no need to dispose of any excavated soil and re-instatement work is also minimised or not required. This all leads to an immense reduction of the costs. Furthermore, there is almost no disturbance to the surface, minimal excavations are required for jobsite pits (so no transport and intermediate storage), less machinery (excavators, compacting units, trucks etc.) and the prevention of traffic jams, diversions and road repair work. This in turn also means low noise, reduced CO₂ and fine dust emissions. The CO₂ loads can be calculated exactly according to Prof. Hölterhoff from the GSTT Institute and are 30 to 50 times higher using open trenching, than when using trenchless techniques.



The GRUNDOBURST 1900G rig in the launch pit, directly adjacent to the S-Bahn (Suburban railway) on Haidfeld Street in Linz, Austria. Inset: The GRUNDOLOG Data evaluation unit for measuring the tensile loads being applied to the new pipe.

As part of a complete re-structuring of Haidfeld Street in Linz, a grey cast iron ND 400 pipe, used as a drinking water transportation pipeline which had seen better days, was to be renewed in two sections over a total length of 200 m. Haidfeld Street is one of the busiest shopping streets in Austria. To prevent any traffic chaos it was necessary to utilise a trenchless method to complete the renewal, with minimal traffic influence being a main priority. It was also an aim to avoid as much inconvenience as possible for the road's numerous shop owners. Therefore the work had to be carried out over only 3 days including a weekend. An open trench method, being the only other alternative, would have generated major disadvantages with a pipeline depth of 1.4 m, especially in terms of a longer construction time. The main contractor for the project was LINZ AG, Water Department.

As the pipe cross-section (ND 400) and the hydraulic performance of the pipe were to remain the same as the existing pipeline, only the static pipe bursting method was considered. Using this method, pipes with the same diameter (or larger pipes) can be renewed along the existing pipe route. It is rather unusual to replace an old cast iron pipe with a new cast iron pipe of the same nominal size using trenchless methods, but it is possible and common with the pipe bursting method without any restrictions.

In order to burst the old cast iron pipe, to expand the bore and at the same time pull in the new ductile ND 400 iron pipe (manufactured by Duktus), a machine with the power and strength to handle pipes of this size was required. A further requirement on the contract was that of measuring and documenting the pulling force loads during the pipe pull-in operation. This was because loadings on the ductile iron pipes were not allowed to exceed 650 kN.

With subcontractor Swietelsky-Faber appointed to complete the pipe burst, the machine chosen for the project was the GRUNDOBURST 1900 G, manufactured by Tracto-Technik, with 1,900 kN pulling force with the company's tensile load measuring device GRUNDOLOG fitted.

The arrival of the expander in the launch pit on completion of the bursting run. Inset: The 610 mm o.d. expander shortly before the pipe bursting process commences.

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During the pipe burst operation each length of the new ductile iron pipe had to be attached to the pipe string individually.

The working sequence for a pipe bursting task is already well-known. First of all the rig is installed in the machine launch pit and connected to the hydraulic power unit. Then the burst rods, together with the guiding cone are pushed through the old pipe. Once through the existing pipe, the lead end is replaced by a bursting head and expander and the new pipe is attached. Using the bursting machine in 'reverse mode' the head, equipped with a cutting blade specially designed for cast iron pipes, bursts the old pipe in-situ. Then the adjacent expander widens the bore, in this case due to

the new pipe joint sockets up to 610 mm diameter, and immediately pulls in the new ductile iron pipe. The ductile iron pipe, supplied in single lengths of 6 m, was connected successively to the previously pulled in pipe. The measured and documented tensile forces achieved during the pull-in process were just 500 kN, so well below the permitted limits for the connection of the new pipe.

The exemplary co-operation of all the companies participating in the project was the reason for the completion of what is believed to be, dimensionally, the largest pipe bursting operation in Austria. The work was completed within the planned construction time of 3 days to the fullest satisfaction of all concerned. Website: www.tracto-technik.com

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5 machine types • pulling force from 40-250 t • simple handling

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PIPE BURSTER SYSTEMS OFFERED FROM RUSSIA

Russia based company Burster Ltd has announced that it is now offering two new cable based pipe bursting systems, the BURSTER B30 and the Burster B50. Using technologies and high-quality accessories from the USA, Burster Ltd offers innovative products in the construction market and for repair of pipelines including the BURSTER B30 and BURSTER B50 rope/cable-based lateral bursting systems. This 'no-dig' machine enables replacement of pipelines with same-size or up-sizing of pipe diameters, using a pipe bursting method. The units work with any pipeline including plastic, concrete, ceramics (clay), cast iron and steel. The B30 system is designed for projects on pipelines up to 200 mm diameter. The B50 system is designed to work with pipelines up to 350 mm diameter. Made of a high-strength aluminium alloy, these powerful yet compact rope/cable pipe bursting machines will enable projects to be undertaken with minimum manpower.

In terms of machine performance the pulling forces offered by the systems are for the B30, 30 t @ 700 bar and for the B50, 50 t @ 700 Bar. Both system utilise an SPX Power Team PG554, 6 hp, gasoline powered power pack. On the B30 the pulling cable is 18-20 mm diameter and comes in a 100 m length. The B50 unit uses a 22 mm diameter rope of the same length. Both machines require a working area of just 600 mm x 600 mm although all lateral bursting systems can work from standard manholes from 1000 mm diameter and non-standard from 600 mm diameter.

The company recently presented both pipe bursting systems at the recent NO-DIG Moscow 2012 exhibition and said that the event had been very successful. Many orders from Russian operators were placed at the show and the company is currently seeking a dealer in the European market, especially in the UK. Email: dukekursk@gmail.com



Company owner Viktor Korenevsky with one of the new Burster rigs.

PITCH FIBRE REPLACEMENT FOR LINCOLN

U Mole (a division of Vp plc within Groundforce) recently provided a Hammerhead PB30 cable-based pipe bursting system to Saxilby-based drain and sewer specialist contractor Drain Wise for the replacement of a number of deteriorated pitch fibre pipes on a project for the City of Lincoln Council.

The project arose after survey work was undertaken at a block of flats known as Fordham House in Lincoln which was designed to establish the existing condition of the drainage facilities serving the building which had recently suffered subsidence problems and to determine if the drainage was a causal factor for the subsidence.

During the inspection work Drain Wise uncovered a number of deteriorated pitch fibre pipes that were in need of replacement, so engineers at the City of Lincoln Council awarded the contract to undertake this replacement work to Drain Wise.

As might be expected, the ground around the work site carried numerous existing services so the replacement work had to be carried out with great care and attention to minimise, if not eliminate, potential service strikes which could have led to loss of the service to residents in the block.

THE PROJECT

After careful examination of the site, ground conditions and the pipe that needed replacing, Drain Wise decided that whilst shorter lengths of the pipes involved could be replaced with open cut



A typical pipe site layout showing the proximity to the block of flats as well as the pipe welding facility for the new replacement pipe.

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techniques, often hand digging, several sections, all over 10 m in length, would be better replaced using a trenchless option.

There were several reasons as to why this was the case. Firstly, the existing utilities and services including gas electric, water and communications cabling could be better avoided using a trenchless option. Secondly, the ground, which comprised not only soil but also old bricks, concrete and other debris, would need to be removed from site and transported to landfill as it could not be re-used once excavated. This in turn meant new backfill would need to be sourced and transported to site in significant quantity. The site traffic would of course have also increased significantly because of this which



An example of the type of pitch fibre pipe deformation that was found on the Lincoln project.

would have had a knock-on effect to the local area in terms of vehicle traffic and environmental impact to both the flat's residents and the local community. Thirdly, to excavate trenches to depths of around 2.4 m (7 ft) through mixed ground with many existing services would have required extensive trench support and site security around the open cut sections.

All of these aspects of course would have significant cost implications to project and pointed the decision making process towards the trenchless option for the longer replacement runs.

Having investigated the options, it was decided that the longer pitch fibre pipe lengths could be best replaced using a pipe bursting option. Given the site conditions and the relatively limited access to the pipe burst sites and the pipe sizes involved (100 mm {4 in} diameter) it was decided that a cable-based, small footprint bursting technique would be applicable. The system chosen for the work was the PB30 unit provided by U Mole.

In total about 180 m of bursting work was undertaken with the PB30 unit over nine individual bursting runs. Reconnection of lateral connections to the newly installed plastic pipe, where it was found the laterals were still in use, were made using small scale open cut techniques.

What was impressive about the pipe bursting section of the project is that all nine bursts were completed in just over 7 working days, despite the significant difficulties with excavation of the start and reception pits given that they all encountered the numerous existing services. Despite this, once prepared, each burst only took approximately 45 minutes to complete including set up and removal of the PB30 unit. All of the burst runs were completed without problems.

For The City of Lincoln Council, Graham Twell said: "The local Council was very impressed with the method used as it showed that the council's choice of contractor was a good one as the company was one that used the latest technology to prevent unnecessary disruption to tenants whilst necessary works were carried out."

For Drain Wise, Dean Watson, contracts manager said of the Lincoln project: "Our choice to use the pipe bursting technique was indeed a wise one. Not only did it offer a more environmentally aware approach to the project but also took into consideration the potential disruption an open cut site would have had on the tenants of the property. The PB30 was an ideal tool for this project and we will definitely be using it again in the future. I would like to thank U Mole for its support throughout the project."

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PB30 PIPE BURSTING SYSTEM

The PB30 compact pipe bursting system has been specifically designed for the replacement of small diameter sewer laterals with minimum surface disruption and disturbance to the client. Producing up to 28 tons of pull back on a special compact cable

The Hammerhead PB30 pipe burster completing a bursting run. As the bursting head emerges from the run the fractured pitch fibre pipe can be seen around the bursting head.

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the PB30 can be broken into several easily manageable components to ease transport/assembly in difficult access locations and even man-holes.

The use of the compact cable together with the compact bursting heads with integral pipe towing head enable the PB30 to burst in-line bends up to and including 45o with no problem.

Hydraulic power can be provided by an independent power pack or even from the hydraulics on a mini excavator.

Key Features of the system include:

- Reduce pit size & surface disturbance
- Compact – fits through a 750 mm doorway
- Rope rather than rods – simple threading
- Up to 30 t pull pack
- Runs off power-pack or mini digger
- Breaks down in to light sections
- Bursts around 45o bends
- Size for size or up-size bursting
- Remote operator controls
- Patented combined burst head and pipe puller
- Stud end cable reduces cable wear around bends
- Small footprint = smaller pits
- No screws or hand tools – 100% pipe Engagement

The power pack available through U Mole is the PP13 Hydraulic Power Pack with a Honda 9.7 kW (@ 3,600 rpm) engine which produces a hydraulic Pump Flow of 23 l/min @ 3,000 rpm to a maximum Hydraulic Pressure of 207bar

Also available with the systems are a range of Quick Grip™ Burst Heads which are used for the installation of PE and PVC pipes for bursting 100 mm (4 in) and 150 mm (6 in) diameter clay and pitch fibre pipes and installing new 110, 125 and 160 mm diameter PE and 100 mm (4 in) and 150 mm (6 in) diameter PVC pipes.

EQUIPMENT RANGE

U Mole, a division of Vp plc is the direct factory UK and Ireland distributor for Earth Tool equipment offering the company's full range of products for trenchless installation and pipeline replacement. This range includes impact moles (earth piercing tools), pipe ramming hammers, twin capstan winches, static rod pipe bursting systems and the portable cable-based, hydraulic pipe burster range.

U Mole also supplies a full and extensive range of trenchless and limited dig equipment including: Suction/vacuum excavation systems (including MTS systems alongside Vac-Tron systems) and surface coring equipment for the 'Keyhole' excavation of utilities and services with minimum disruption to the local area and minimum damage to the buried service.

Other trenchless related equipment available includes the market leading Robbins SBU equipment, Pipe to Site coiled pipe trailer range, pipe fusion systems, Reed Tools and a complete range of accessories such as Cobra flexible rodding, towing heads, cable socks, pipe pigs, swivels, breakaway connectors etc. Website: www.umole.co.uk

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The new pipe welded to the required length is laid out at the reception pit and prepared for installation.



The new pipe being fed into the ground during a bursting run. Inset top right: The pipe entering the ground behind the bursting head.



NEW MEMBERS

UKSTT would like to welcome its latest Corporate Member: Land & Marine Engineering Ltd

Getting to know our new members

Land & Marine Engineering Ltd was founded in 1953 and has been involved in directional drilling since the 1980s as both a contractor and consultant. The company is accredited by LRQA to OHSAS 18001, ISO 14001 and ISO 9001.

Backed up by its engineering and geotechnical knowledge and long experience, Land & Marine's HDD business compliments its construction operations in cross-country pipelines, aviation fuelling lines, landfalls and other crossings. With a fleet of HDD rigs, auger boring machines and specialist plant and equipment, the company operate throughout the UK and internationally in larger diameters and its consultancy and installation engineering service is available worldwide. The company provides installation and consultancy services for landfalls and crossings for HV interconnector cable landfalls from offshore wind-farms.

In 2011, Land & Marine was a winner of the Institution of Civil Engineers' George Gibby award for the installation of a 3 km long HDD gas pipeline crossing of the Haven at Pembroke for client RWE npower. For a more detailed look at what Land & Marine can offer, please visit the Website: www.landandmarine.com

Land & Marine

NEWS

UKSTT's educational links seeks industry placements for students.

UKSTT has an on-going long term link with Brunel University and is pleased support the University search for student placements. Last year UKSTT members provided two placements which resulted in job openings.

Can you identify where these talented engineers of the future can offer your company support and value and in return you can offer industry experience and business exposure? These are 'Highly Calibrated Civil Engineering Students' at Brunel University that are looking for Placements.

Civil Engineering at Brunel University brings together the traditional and cutting edge aspects of the subject to supply graduates/placement students, needed in the 21st Century. Their course is designed to extend the boundaries of knowledge and produce graduates/students with experience, skills and the ability to innovate, who can provide the next generation of essential facilities such as sustainable building construction, roads, bridges, tunnels, dams, foundations, flood protection, waste recycling and construction management.

A core part of the university ethos is sustainability, paralleling the 'cradle-to-grave' approach promoted by major national and international engineering organisations. These are highly qualified students who have already completed their 2nd and/or 3rd year and who are looking for a one-year placement in the construction industry.

If you happen to have such opportunity, you are more than welcome to contact Dr Michael Zhou, Civil Engineering Students Placement Coordinator, at Xiangming.Zhou@brunel.ac.uk and/or call: 01895 258 931 to further discuss your expectation and what Civil@Brunel can provide.

University Sponsorship Opportunity

The society has decided to offer corporate members the opportunity to sponsor some, all, or part of their on-going programme of university and professional institution lectures.

As a trial, UKSTT is offering its corporate members a 'one-off' chance to sponsor the next 'all day lecture' at Warwick University that will be taking place in October. The 'Pipeline Day' event will take place on Friday 5th October.

Corporate Members with an interested in this opportunity to influence the engineers of tomorrow should in the first instance contact Peter Crouch, UKSTT Technical Secretary, with an expression of interest and a sponsorship offer. A minimum guide of £150 has been set. Contact: admin@ukstt.org.uk

The selected sponsor will be able, indeed is expected, to provide a pull up banner and 100 leaflets that will be distributed to students on the day. If the sponsor has any appropriate animations or images that it can provide in good time, consideration will be given to imbedding them within the day's material.

It is a day of lectures, films, animations, group work and tool box talks, that encourages student participation, delivered by nationally recognised industry experts and co-ordinated by UKSTT.

This is a unique opportunity for companies to get their brand awareness raised with tomorrows Engineers and a demonstration to key clients of the company's commitment to developing the future.

The day explores the environmental and structural design aspects of buried pipeline installation and rehabilitation. This follows on from a highly successful introductory lecture last year and builds on the society experiences at Brunel University where similar programmes have generated very positive long term professional relationships with students and University Staff.

NJUG SOUTH WEST STREET WORKS FORUM - 26 June 2012, Venue: Lakeside, Roadford Lake, Broadwoodwidge, Lifton, Devon, PL16 ORL.

The NJUG South West Street Works Forum is part of an ongoing programme of events designed to bring the street works community together to promote and share examples of good practice in line with the NJUG Vision for Street Works and the HAUC(UK) Code of Conduct, and to explore, learn and celebrate how utilities, contractors and local authorities can work better together to reduce disruption.

NJUG forums, held around the UK, have previously been very well attended by key stakeholders, parliamentarians, local government representatives, and senior utility figures, representing invaluable networking opportunities to receive updates on the latest industry development.

This event will be attended, on behalf of UKSTT, by Past Chairman, Colin Tickle, Drilline Products. [NOTE: Admittance is by invitation only].



SBWWI TRANSFER OF PRIVATE SEWERS SEMINAR - 28 June 2012, Venue: Trident Business and Technology Centre, Trident Park, Leamington Spa.

The seminar will provide an update on the experiences 9 months into the transfer. The programme details are being finalised and published shortly. This event will be attended, on behalf of UKSTT, by Council Member Simon Bowden, Develop.

JOINT UKSTT / PIG EVENING SEMINAR - 13 September 2012, Venue: Ramside Hotel, Durham.

This joint UKSTT/PIG evening seminar will showcase some of the UKSTT Awards winners and short-listed entries along with other innovations in trenchless technology. The programme is currently being developed and will be available shortly.

UKSTT PLANS 'PIPELINE ENGINEERING DAY' AT WARWICK UNIVERSITY - 5 October 2012

The full day of lectures and group work is in the process of detailed planning but the intention is to take Warwick students to the UKSTT biennial 'No Dig Live 2012' Exhibition and Conference at Stoneleigh Park, near Coventry, on the day before, being the last day of the three day show, to ensure that students are fully informed for the following day's case studies and work group activity.

UKSTT ANNUAL DINNER & AWARDS CEREMONY - 26 April 2013.

The 2013 Annual Dinner and Awards Ceremony has been confirmed as taking place on 26 April 2013 at the Holiday Inn, Birmingham.

ACTIVITIES

Pooler ICE Engineering Club

On Thursday 17 June Peter Crouch, UKSTT Technical Secretary, gave local delegates an introduction to trenchless systems, materials, and techniques at the RnLI headquarters in Pooler. Using slides and animations Peter talked to approximately 35 local engineers and technicians, who are members of the ICE South West Pooler City Engineering Club.

Covering a wide range of background information, with film clips and animations, the meeting encouraged lots of discussion and interest.

*The RnLI
Headquarters in
Pooler, Dorset, UK.*



REMINDERS

SBWWI Transfer of Private Sewers Seminar - More Questions than Answers — 28 June 2012 Venue: Trident Business and Technology Centre, Trident Park, Leamington Spa.

Following the success of the STOP! PDaS Ahead seminar last year, SBWWI is holding a further event on Thursday 28 June 2012 at the Trident Centre in Leamington Spa.

The day is designed to provide an update on experiences 9 months into the transfer and will be an opportunity for delegates to hear presentations from a broad range of stakeholders including senior representatives from:

- The Water & Sewerage Companies
- Contractors
- The Regulators
- The Insurance Sector
- Consumer Organisations
- NADC



UKSTT NEWSLETTER



Brought to [UKSTT](#) Members by:



This significant change in the UK Water & Wastewater Industry has raised many questions following implementation last October and the object of the day will be to provide answers to some of those questions and stimulate further debate on shaping future policy.

There are exhibition opportunities available at £500.00+VAT for companies to raise their profile through connection with this prestigious event and competitive rates for registration follow.

Registration fees:

SBWWI members £165 plus VAT

Non-members £190 plus VAT

Water Companies are eligible to register at the SBWWI member rate

Further details on the programme will follow shortly.

For details contact: Angela Long, SBWWI Email: angela@sbwwi.co.uk Website: www.sbwwi.co.uk

NO-DIG LIVE 2012

The 11th biennial exhibition and outdoor demonstration event, No-Dig Live is taking place between 2 and 4 October 2012 at Stoneleigh Park, Near Coventry. It is the only showcase dedicated to trenchless technology and the very best products and services applied to the new installation and refurbishment of underground utilities. This event attracted visitors from more than 20 countries in 2010.

No-Dig Live is not just another exhibition – it is also a live working environment and the only forum in the where manufacturers and product suppliers can display and demonstrate products at an event which is truly focussed on trenchless technology. No-Dig Live has a proven track record and the 2012 event marks the 11th in this highly successful series. Website: www.nodiglive.co.uk

For any information about the United Kingdom Society for Trenchless Technology (UKSTT) please contact:
Val Chamberlain,

38 Holly Walk, Leamington Spa, Warwickshire, CV32 4LY

Tel: 01926 330935

Email: admin@ukstt.org.uk

Website: www.ukstt.org.uk

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- Newsletter to approx 4500 recipients
- Networking and more

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EVENTS AND MEETINGS



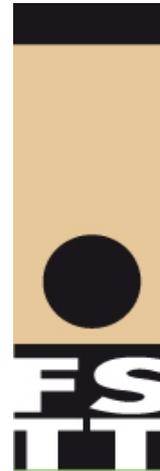
FSTT EXHIBITS TRENCHLESS TO THE FRENCH MARKET

Over the next 12 months there is a series of events organised by and including the French Society for Trenchless Technology (FSTT) including regional and National shows. These events include:

JOURNEE TECHNIQUE FSTT - France Sans Tranchée Technologies (FSTT) - is a regional event that will be held next in Rennes, France on 27 September 2012. The target for this kind of event, dedicated to trenchless works, is to inform owners, engineers, technicians etc about trenchless technologies (laying and rehabilitation techniques) and to provide a showcase and forum for exchange of information and experience in the application of trenchless technology. This particular event will focus principally on the new French DT-DICT regulation. The event is supported by some major French companies such as Gaz de France, Ville de Rennes, Rennes Metropole and the French authority in charge of water networks: Agence de L'eau Loire Bretagne. For more information visit the FSTT Website: www.fstt.org

VILLAGE DU SANS TRANCHEE with POLLUTEC LYON 2012 - The 'Village du Sans Tranchée' in Pollutec 2012 exhibition, will be held at Lyon-Eurexpo, France, between 27 and 30 November 2012. The 'Village du Sans Tranchée' event expects to attract European exhibitors and visitors with papers, conferences and technical sessions to promote trenchless technologies regarding trenchless network laying techniques (microtunnelling as well as horizontal directional drilling) and trenchless rehabilitation techniques. Few little stands are still available all around the centre of the village. For further information, contact: rachid.ikrou@reedexpo.fr

VILLE SANS TRANCHEE 2013 - FSTT will hold its main event The 10th biennial 'Ville Sans Tranchée' exhibition in Cergy-Pontoise, near-by Paris, France, between 19 and 20 June 2013. 'Ville Sans Tranchée' (VST) brings together specialists in trenchless technologies and offers an interesting programme of live demonstrations. The 9th VST enabled some 99 exhibitors to demonstrate all technologies, products, equipment to around 2,400 visitors in a large outdoor area. They were also able to attend the conference sessions in the indoor area. More than 2,500 participants are expected to attend the 2013 event. The exhibition centre, Mirapolis, is located close to the heart of Paris and easily accessible (20 minutes from Paris by the suburban underground, RER, line A from Cergy-Le-Haut and shuttles direct to Mirapolis). For details visit the FSTT Website: www.fstt.org



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Westrade Group Ltd

[Westrade](http://www.westrade.com)

Westrade Group Ltd is an independent company specialising in trade exhibition and conference organisation. Events include the 'TRENCHLESS' and 'NO-DIG' series across Europe, the Middle East, Asia and Africa.

NETWORK SERVICE TECHNOLOGY DAYS - NO-DIG ITALY 2012

IATT is proud to announce the 5th in the series of Network Services Technology Days, which will be held in Piacenza (during the International Exhibition GEOFLUID) between 3 and 6 October 2012.

The No-Dig Live show is dedicated to Private Companies and Public Municipalities interested in underground ground infrastructure operations that avoid/minimise environmental impact.

During the exhibition visitors will have the chance:

- To assist to practical demonstration of equipments related to the trenchless technologies;
- To be brought up to date on the latest technologies and equipment utilised for the installation, maintenance and repair of underground infrastructures such as power line, gas pipelines, water and sewage systems.
- To examine the economic, legislative and environmental areas associated with No-Dig Technologies.

During the event there will be training courses, round table discussions and congress papers offering a wealth of opportunities to discuss theory and practice with industry experts and representative of Public Administration organisations and Local Government.

ISTT is also pleased to say that International Delegations will be coming to the event from the Middle East and North Africa to participate in the No Dig Live event.

Access to the associated Network Service Technology Days will be free of charge. A programme of the event will soon be available on the Website: www.iatt.it



EVENTS AND MEETINGS



NO-DIG LIVE 2012 – REGISTRATION NOW OPEN

Online registration is now open for NO-DIG LIVE 2012 which will be taking place at Stoneleigh Park, between 2 and 4 October this year.

Visitors can also sign up to attend any of the Breakfast Briefings taking place each day. Entrance is free of charge and the outline topics are:

- Day 1 – This first session will focus on records and plant location with particular reference to the importance to trenchless utilisation and safety.
- Day 2 – Hosted by UK Onshore Pipeline Operators' Association, this programme will provide an insight into the collaboration of UKOPA members to reduce damage to onshore pipelines.
- Day 3 - Debate will cover the hot topic of leakage management, to include pipe condition assessment, internal pipe repairs and the life expectancy of pipes, considering the use of minimum disruption techniques.

Further details of the Breakfast Briefing programmes are to be found on the show website (below).

After the daily seminar programmes, the exhibition will open at 10.00 a.m. and visitors can expect to see a great range of live demonstrations undertaken by many exhibitors displaying their equipment and products on the outdoor area. In addition, the indoor area will present a comprehensive showcase of trenchless technology offering an unrivalled opportunity to compare and contrast many products on show. To register online or for more information visit the Website: www.nodiglive.co.uk



Outdoor demonstrations from the No-Dig Live 2010 event.

SPONSORS LINKS

Click Name for website access



Westrade Group Ltd

[Westrade](http://www.westrade.co.uk)

Westrade Group Ltd is an independent company specialising in trade exhibition and conference organisation. Events include the 'TRENCHLESS' and 'NO-DIG' series across Europe, the Middle East, Asia and Africa.

SET FOR SUCCESS IN SINGAPORE

TRENCHLESS ASIA 2012 is all set for a great show when it opens in Singapore on 2 July 2012. For the first time, the event is co-locating with the Singapore International Water Week (SIWW) which expects to attract in excess of 13,000 visitors who attended last year from some 100 countries.

The strategic positioning of TRENCHLESS ASIA is aimed to increase awareness of trenchless technology to the many government officials and engineers attending SIWW, as well as those who will be attending the international community's premier event in Asia. The exhibition will present a wide range of products and equipment displayed by some 10 countries.

Alongside the exhibition will be a two day conference programme running on 3 and 4 July, compiled in conjunction with International Society for Trenchless Technology (ISTT), featuring a number of technical papers, providing an insight into many new techniques and technologies. The Conference will be opened by Dr Samuel Ariaratnam, chairman of ISTT and he will introduce two prominent keynote speakers. First is Mr Tan Yok Gin, Assistant Chief Executive (Operations) PUB, Singapore and Mr Mohd Akhir bin Md Jiwa, Director General Sewerage Services, Ministry of Energy, Green Technology & Water, Malaysia. TRENCHLESS ASIA 2012 is organised by international event organisers, Westrade Group. To register for the event and to obtain full information, visit the Website: www.nodigsingapore.com



The venue for Trenchless Asia 2012 which will run alongside Singapore International Water Week.

2012
NO-DIG LIVE

NEWSLINE

2-4 October 2012 - Stoneleigh Park, Near Coventry, UK

Issue: July 2012

GET READY FOR NO-DIG LIVE 2012



Your opportunity to see the latest technology in action

NO-DIG LIVE returns to Stoneleigh Park for the 11th event in this highly successful biennial series and will feature an exciting mix of live demonstrations, new product launches and a comprehensive display of everything NO-DIG!

Demand for outdoor space is greater than ever and visitors can anticipate a feast of live working demonstrations from a number of exhibitors showing the very latest technology and capabilities of a range of products.

The exhibition and seminar registration is now open at the show website www.nodiglive.co.uk – sign up today and mark your diaries now!

Register now

Register online in advance at www.nodiglive.co.uk to avoid queuing on the day

Sponsored by:



Co-sponsors:





No Dig Live 2010
Opening Ceremony
 Norman Baker MP
Minister for Communities and Local Government

Business Briefings
 5-7 October 2010
 Organised by
UKSTT **W**

Business Briefings
 5-7 October 2010
 Organised by
UKSTT **W**

Breakfast Briefing programme takes shape

Start your day by attending one of the **FREE** daily seminars

Sign up early to attend the Briefings as space is limited!
www.nodiglive.co.uk

The daily Breakfast Briefing programme will comprise a mixture of topics to appeal to various industry sectors.

Attendance at these early morning seminars is free of charge and the programme commences with welcoming refreshments at 8.00 a.m. before visitors settle down to participate in the debate on the topic of each day. The Briefings are timed to finish at 10.00 a.m. when the exhibition opens, thereby maximising visitors' attendance at the show.

Day 1's topic will focus on **records and plant location**, with particular reference to the importance to trenchless utilisation and safety. Following the Government's 'Red Tape Challenge' it is proposed to

repeal legislation supporting buried asset records regulations and the industry has been working hard to develop its own procedures and structures. Chairman of NJUG, Les Guest is among the featured speakers and the seminar will offer an opportunity to hear about the latest developments.

Day 2 is hosted by the UK **Onshore Pipeline Operators' Association**. This interactive event will provide attendees with an insight into the collaboration of UKOPA members to reduce damage to onshore pipelines. Risk mitigation measures and 'doing the right things' to prevent incidents (and associated costs) will be discussed and hear best practice tips from those companies who regularly work in the vicinity of pipelines.

Speakers include: **Roger Ellis** - Chairman, UKOPA, **Grant Rogers** - Wales and West Utilities and Chairman of UKOPA Infringement Working Group, **Helen Berry** - HSE, **Les Guest** - (NJUG and HAUC) plus case studies from companies based in the UK.

Day 3 will provide a debate on the hot topic of **leakage management**, to include pipe condition assessment, internal pipe repairs and the life expectancy of pipes, considering the use of minimum disruption techniques.

Chaired by **Stuart Trow**, who has over 30 years experience of leakage management with one of the UK water companies until 1994, and since then as a consultant specialising in

leakage. Stuart is currently the Leakage Reviewer for Scottish Water and the Water Industry Commission, and has recently been the Ofwat Reporter for Anglian Water. He works on leakage with several other companies including Welsh Water. He has authored numerous papers and reports on leakage, has been a member of the IWA Water Loss Specialist Group since 2005 and he co-chairs a working group considering Target Setting for Water Loss.

AROUND THE STANDS

Featured below are just some of the exhibitors who will be exhibiting.

Ant Hire will be demonstrating a range of robotic lateral cutters including the MICRO Comfort, for 80mm-250mm pipes with the ability to pass through 90 degree bends; Micro Drive, for 150-400mm pipes designed to make accessibility easy with its 100m of supply hose Turbo Cutter, for 200-600mm pipes. An extremely powerful and reliable cutter. There will also be a range of technology from IBAK on display, including the portable inspection system for 100-1000mm pipe which incorporates the new compact T66 camera tractor, alongside a range of new products and prototypes from IBAK and Troglotech the developer of the T804 pushrod. **Visit Outdoor stand 3.**



or at their own training centres located within the depot network. Also new from the R&D department is a brand new compact lightweight van pack, offering great performance, compact and light design allowing for greater utilisation of vehicle payload. **Visit Outdoor stand 34.**



Plant & Site Services –

pushing pipe just got easy! The POLYPUSH has been designed to take the strain out of pipe insertion. The unit requires no hydraulic assistance and can push pipes up to 200 metres without stretching or kinking the pipe. The unit is very cost effective being on average one third of the cost of a winch and is very compact weighing in at 23kgs. The unit is supplied with a full set of liners from 63mm up to 125mm and is approved for use on National Grid networks. The POLYPUSH connects to the digger arm and requires minimal training. **Visit Outdoor stand 28.**



Herrenknecht AG,

located in Germany is a technology and market leader in mechanized tunnelling. As the only company worldwide, Herrenknecht delivers cutting-edge tunnel boring machines for all ground conditions and with all diameters – ranging from 0.10 to 19 meters. The Herrenknecht product range includes tailor-made machines for traffic and transport tunnels (Traffic Tunnelling, $\varnothing > 4.2$ meters) and supply and disposal tunnels (Utility Tunnelling $\varnothing < 4.2$ meters). The company also provides state-of-the-art deep drilling rigs, to bore to a depth of 6,000 meters (Herrenknecht Vertical). **See us on stand 217.**



Wales & West Utilities slash pipe wastage with new **Steve Vick** 500 metre coil trailers. Wales and West Utilities has recently taken delivery of the first of 18 new, high capacity pipe coil trailers which they had a hand in designing. The trailers are the first of its kind in the UK, to be able to transport and dispense 500 metre coils of PE with diameters from 63mm to 90mm. "The investment", says Andrew Hopkins, Director of Operations, "is expected to deliver a reduction in pipe wastage of 13% in the smaller main sizes, up to 90mm". **Visit Outdoor stand 45.**



Well prepared for the future with **IBG's** new HydroCut 60 compact. By 2015, depending on the respective state, all house connections of around 15 million properties in Germany must be controlled and rehabilitated by defectiveness for the first time. To do this IBG has developed the HydroCut 60 compact at the right time. The demand on cutting robots that are designed for residential lines is already large. Nevertheless, with the immense growth of the demand for cutting robots for house connections will be expected. The damage amount of private lines, according to experts, lies at 50 to 90 per cent. This means, wastewater leaks out of pipes with a length of 750,000 km. **See us on stand 306.**



Tunnel Engineering Services (UK)

Ltd has established an enviable reputation for the design and manufacture of tunnelling equipment for the construction industry. Utilising leading edge technology, our engineers design and build equipment to the highest standards, providing a comprehensive service from concept to commissioning.

We have been designing and building tunnelling machines, auger bore machines, power packs and ancillary equipment for many years, and also provide workshop and site services.

TES(UK) has a fleet of equipment for hire purposes: mechanised tunnelling machines, T.B.M.'s, auger & guided boring machines, pipe and shaft jacking with back-up equipment.

Official distributor of Akkerman Inc. USA equipment. **See us on stand 404.**



Jetchem's main focus will be the launch of Confined Space, Emergency First Aid at Work and Chapter 8 training courses which will run alongside their existing range of Water Jetting Association courses and modules. Using the newly developed mobile vehicle, designed specifically for confined space training, Jetchem can train at the customer's site

continued on next page ▶

◀ continued from previous page

Vp plc Groundforce group's trenchless technology specialists, **U Mole**, will be exhibiting and demonstrating their wide range of no-dig/limited dig equipment at this year's show. Along with their traditional range of muling, bursting and pipe ramming coiled pipe handling and winching equipment, will be the latest developments in suction/vacuum excavation and keyhole technology.



New design features of the MTS DINO suction/vacuum excavation will be seen as the equipment completes live excavations on stand. New innovations include: - top venting exhausts, new fuel economy system, full body panelling, and the introduction of triple fan configurations for improved air performance in long distance and civil works. **Visit Outdoor stand 26.**

TT Group will be demonstrating the new GRUNDOMAT N soil displacement hammer generation which improves the propulsion and directional stability for an even greater target-precise installation. A distinct characteristic is the crowned head, which expands the bore hole to the full bore diameter. The sharp cutting crowns force themselves into larger stones to pulverise and split them. **Visit outdoor stand 1.**



Welcome to overseas visitors

NO-DIG LIVE continues to attract a growing number of visitors from overseas as the show is recognised as THE showcase for trenchless technology and where the very best is on display and demonstrated in a live working environment. In 2010, visitors from more than 20 countries attended the show. UKSTT and the organisers Westrade Group Ltd would like to extend a warm welcome to all and especially to members of ISTT affiliated societies. Direct flights are available from many international destinations to nearby Birmingham International airport. Please contact us to arrange group visits. Email: trenchless@westrade.co.uk

Exhibition opening times:

Tuesday 2 October	10.00 - 17.00
Wednesday 3 October	10.00 - 17.00
Thursday 4 October	10.00 - 16.00

LATEST EXHIBITOR LISTING

Listed below are those who have already booked space. Call the sales team to reserve your space. Tel: +44 (0) 845 094 8066.

3M UNITED KINGDOM PLC	PIPE EQUIPMENT SPECIALISTS LTD
AARSLEFF PIPE TECHNOLOGIES	PIPELINE INDUSTRIES GUILD
ACTIVE TUNNELLING LTD	PLANNED MAINTENANCE (PENNINE) LTD
AMPCONTROL PTY LTD	PLANT & SITE SERVICES
ANT HIRE LTD	RIDGE TOOL UK
A-PLANT	RSM LINING SUPPLIES
ARTHUR HABERMANN GMBH & CO KG	ROTEX WINCHES
BAUER EQUIPMENT UK	SBWWI
BREWIS ENGINEERING	STEVE VICK INTERNATIONAL LTD
BUCKHURST PLANT HIRE LTD	T A DRILLING (SALES) LTD
CPJ ENVIRONMENTAL SERVICES LTD	TRELLEBORG PIPESEALS DUISBURG GMBH
C-SCOPE LTD	TT-GROUP
DENHOLM PIPECARE	TUNNEL ENGINEERING SERVICES (UK) LTD
DITCH WITCH UK	UKOPA
DRILLINE PRODUCTS LTD	UKSTT
E C HOPKINS LTD	U MOLE
E R SYSTEMS	UKDN WATERFLOW PLC
FASTFLOW	VERMEER UK LTD
FORCE ONE LTD	...and growing daily.
GEORGE FISCHER SALES LIMITED	
HERMES TECHNOLOGIE LTD	
HERRENKNECHT AG	
IBG STEINICKE GMBH	
JACKCONTROL AG	
JETCHEM SYSTEMS LTD	
LINSEARCH & LINEWATCH	
MACLEOD SIMMONDS LTD	
MBW (UK) LTD	
MCALLISTER BROS LTD	
ONSITE CENTRAL LTD	
PERFORATOR LTD	



List correct at the time of going to press, but check out the latest listing on the show website as names are being added daily! www.nodiglive.co.uk

Organisers

NO-DIG LIVE 2012 is organised by Westrade Group Ltd who have been organising NO-DIG and TRENCHLESS exhibitions in the UK, Middle East, Far East, South Africa and India since the inaugural NO-DIG event held in London in 1985.

All Enquiries Tel: +44 (0) 845 094 8066
Email: trenchless@westrade.co.uk
www.nodiglive.co.uk

Westrade Group Ltd, 112-114 High Street, Rickmansworth, WD3 1AQ

EVENTS AND MEETINGS



2012

July 2-4

Trenchless Asia 2012 - Singapore (with Singapore International Water Week (SIWW))

Details from: www.trenchlessasia.com

June 5-8

ECWATECH - Moscow, Russia

Details from: www.ecwatech.com

June 28

SBWWI Private Sewers Seminar - Leamington Spa, UK

Details from: www.sbwwi.co.uk

September 19-21

Tunneling Short Course - Boulder, Colorado, USA

Details from: <http://csmospace.com/events/tunneling/>

September 27

Journee Technique FSTT - Rennes, France

Details from: www.fstt.org

October 2-4

No-Dig Live 2012 - Coventry, UK

Details from: www.nodiglive.co.uk

October 3-6

No-Dig Italy 2012 (with Geofluid Exhibition) - Piacenza, Italy.

Details from: www.iatt.it

October 23-24

Trenchless Live 2012 - Melbourne, Australia.

Details from: www.trenchlesslive.com

November 12-14

International No Dig Show 2012 - São Paulo, Brazil

Details from: www.acquacon.com.br/nodig2012/index.html
or www.westrade.co.uk

November 27-30

Bauma China 2012 - Shanghai, China.

Details from: www.bauma-china.com

November 27-30

Village Du Sans Tranche/Pollutec - Lyon, France

Details from: rachid.ikrou@reedexpo.fr

2013

February 5-8

BAUMA CONEXPO SHOW - bC India - Mumbai, India.

Details from: www.bcindia.com

March 3-7

NASTT's 2013 No-Dig Show - Sacramento, USA

Details from: www.nodigshow.com

March 18-19

TRENCHLESS MIDDLE EAST - Dubai, UAE

www.trenchlessmiddleeast.com

April 15-21

BAUMA 2013 - Munich, Germany.

Details from: www.bauma.de/en

April 23-26

1st NO DIG Berlin 2013 (with Wasser Berlin International) - Berlin, Germany.

Details from: www.nodigberlin2013.com

May 9-11

TTUS 2013 - Guangzhou, China.

Details from: www.china-mete.com/sd/

June 19-20

Ville Sans Tranche 2013 - Paris, France

Details from: www.fstt.org

September 1-4

International No-Dig 'Down Under' 2013 - Sydney, Australia

Details from: www.nodigdownunder.com

September 18-21

bauma Africa 2013 - Johannesburg, South Africa

Details from: www.bauma-africa.com

2014

April 8-10

VI International Conference 'Trenchless Technologies' NO-DIG POLAND 2014 - Kielce-Cedzyna, Poland.

Details from: www.nodigpoland.tu.kielce.pl

If you have an event, course or meeting scheduled and would like to add it to this listing please forward details to: ian@nodigmedia.co.uk