

# TRENCHLESS WORKS

THE ON-LINE NEWS AND INFORMATION SERVICE  
FOR THE TRENCHLESS INDUSTRY.

MEDIA PARTNER OF THE UNITED KINGDOM  
SOCIETY FOR TRENCHLESS TECHNOLOGY



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ISSUE 87

NOVEMBER 2013

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# INDUSTRY, COMPANY AND INSTITUTION NEWS AND RESEARCH



## HERRENKNECHT 'MOST VALUABLE BRAND'

Herrenknecht is the most valuable brand among German medium-sized world market leaders in the investment goods business. This is the result of a recent study carried out for the second time by the Munich-based Biesalski & Company management consultancy firm on behalf of WirtschaftsWoche. According to the article published in WirtschaftsWoche in October 2013, Herrenknecht again occupies the top position in 2013, its second time.



*The Herrenknecht stand at the recent bauma event.*

Tomasz de Crignis, partner and responsible for the study at Biesalski, explained: "Herrenknecht bundles all competencies of the brand excellently, the company communicates with the target group in a clear and transparent manner and it even used the fact that it held top position in our last ranking to identify weak points and to make progress." As with the majority of Hidden Champions, the brand image and the holistic presentation of the Group contributed considerably to the company's success. "The leading Hidden Champions use their brand so successfully that they are better embedded in the target group than many known brands in the consumer goods area." said de Crignis.

As part of the 'The brands of German Hidden Champions 2013' study, more than 250 experts in the sector were interviewed, annual reports were evaluated and the brand performance as well as the corporate performance of companies with sales between €50 million and €1 billion were identified. The companies assessed occupy a worldwide leading position in their sector and are managed by their owners and/or their owners hold a majority share. The result is the 'Hidden Champion Index' in which Herrenknecht achieved the top value of 151.4 points (2011 result: 143.4 points) out of 200 possible points. Ranks 2 and 3 were occupied by Lürssen (Bremen, yacht construction, 134.5 points) and Wilo (Dortmund, pumps, 133.3 points). Website: [www.herrenknecht.com](http://www.herrenknecht.com)

## NOT TRAILING BEHIND WHEN IT COMES TO SAFETY

TT-UK of Bedford recently supplied SSE with 27 Cable Drum Trailers featuring a range of new innovative and bespoke specifications for ease of use and safer operation. The new BKT15 Cable Drum Trailers are the direct result of a joint collaboration between TT-UK and SSE since their first discussions back in 2011.

With the emphasis on safer cable drum loading and unloading, improved road towing and cable drum holding abilities, field trials were conducted initially using one single unit; the results of which were very encouraging for both SSE Managers and Cabling staff.

During the first half of 2012 further trials were carried out in Aberdeen, Inverness, Perth and Arbroath resulting in SSE placing an order with TT-UK for a further 26 units in November 2012. Following a meticulous and thorough approval process, this included inspection by SSE at regular intervals during manufacture, the approval came in October 2013 for the final units to be delivered.

Delivery of all the units will be complete before the end of 2013, which will be followed directly by TT-UK's Operational Equipment Training Programme which will support SSE's on-going cabling operations.

Roger Atherton, Business Development Manager for TT-UK said: "The mutual co-operation between SSE and TT-UK has been fundamental in the design and development process of these new trailers. We are now looking forward to the next phase of supplying these new trailers to SSE's Southern Operations." Website: [www.tt-uk.com](http://www.tt-uk.com)



*The new BKT15 Cable Drum Trailer.*

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# INDUSTRY, COMPANY AND INSTITUTION NEWS AND RESEARCH



## 'GREEN' RESINS FOR CIPP

**K**aleel Rahaim, Manager-Pipeline Rehabilitation Polymers, announced recently that Interplastic Corporation now offers CIPP 'Green' Resins that eliminate the environmental concerns foetn raised in lining underground pipes.

Interplastic's CIPP 'Green' resin allows for the repair of partially or fully deteriorated underground pipes with environmental safety in mind.

These new resins are a proven solution in gravity pipelines providing consistent quality, fast wet out, trouble-free processing, high strength, and excellent flexural modulus properties.

The ECO series of resins have no styrene, no volatile organic compounds (VOCs), and no hazardous Air pollutants (HAPs). They meet ASTM F1216 requirements and reduce the likelihood of stress cracking and shrinkage with a lower exotherm in the enhanced version.

The new resin range includes:

- CORVE8290 - Styrene free ECO series vinyl ester resin.
- CORVE8295 - Styrene free, modulus enhanced, ECO series vinyl ester.
- CORVE8287 - Styrene free, ambient cure, ECO series vinyl ester resin for laterals and point repairs.

Interplastic Corporation is a specialty chemical company with its headquarters in St. Paul, Minnesota, USA. The company focuses on the production and sale of unsaturated polyester and vinyl ester resins, gel coats, colorants and putties for the composites and cast polymer industries. Interplastic is ISO 9001:2008 and ISO 14001:2004 certified. Website: [www.interplastic.com](http://www.interplastic.com)



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## KOBUS APPOINTMENT

**K**obus Services Ltd (manufacturer of the Kobus Lead Pipe Puller ) is pleased to announce the appointment of Matthew Izzard as Sales and Marketing Manager.

He is responsible for all UK and International sales and marketing aspects of the business and brings his wealth of trenchless technology experience and knowledge to add to the company's quickly growing industry reputation.

Kobus Cilliers, founder of the company, said: "We were looking for someone with Matthew's background and skills to grow the business and are delighted to have been able to secure the services of such a well known personality."

Matthew has already expanded the company's portfolio with lead pipe replacement projects in Thames Water, Severn Trent Water, South West Water and a high profile Customer Property Lead Replacement Scheme with Affinity Water. Matthew commented: "To have had one opportunity to pioneer a trenchless technique in the UK was great, to have the second with a product like this with such potential for cost savings for contractors and less disruption for the customer was simply one I could not turn down."

The award winning Kobus Pipe Puller is rapidly commanding attention from water companies and Tier 1 contractors to extract lead pipe water services from the ground and pull in a new PE service without the risk of hitting or damaging other surrounding infrastructure. Other accessories and a specific puller for the gas industry is also in development.

The equipment is available to purchase from Kobus Services or to hire through U Mole (part of VP plc). Accredited Training and Demonstrations are available through Matthew. Website: [www.kobuspipepuller.com](http://www.kobuspipepuller.com)



*Matthew Izzard the new Sales and Marketing Manager for Kobus Services Ltd.*

# INDUSTRY, COMPANY AND INSTITUTION NEWS AND RESEARCH



## HERTEL OPEN DAY HIGHLIGHTS U MOLE VACUUM EXCAVATION OPTIONS

U Mole (part of the Groundforce division of Vp plc), alongside sister organisations ESS Safeforce and Groundforce's Site Safe, recently attended an Open Day, hosted by Hertel, at the ConocoPhillips site in Seal Sands, Stockton-on-Tees, UK.

The event brought together many of the Vp plc divisions to help Hertel promote the many innovative and different services which the company can now offer throughout the site. The aim of the Open Day was to highlight the range of Hertel skills and experiences across the business that are now, or which could potentially be, utilised to meet ConocoPhillips' needs, to the benefit of both companies.

Hertel showed particular interest in the U Mole range of Vacuum Excavation systems and were a major highlight of the day as part of the range of options demonstrated to ConocoPhillips. The demonstration showed how the vacuum excavation option could meet key objectives to maintain and increase the levels of efficiency and safety on site through ConocoPhillips' 'Better Tools Better Methods' initiative.

The event was very well attended with around 150 delegates, despite the weather not being at its best. These visitors enjoyed not only the equipment demonstrations but were also treated to a hog-roast, winter warmer lunch.

Commenting on the event Hertel event, Frank Gowdy, U Mole Sales and Marketing Director said: "Alongside our sister operations, we at U Mole were very pleased with the results of the Open Day. Since the event we have been back with Hertel to complete further equipment demonstrations to highlight the capabilities of the Vacuum Excavation systems we offer to the broader Hertel Group. We are looking forward to these and potential future visits being the start of mutually beneficial relationship with this highly respected company."

### VACUUM SYSTEMS

The vacuum excavation systems on display were the German-manufactured MTS Dino 3, and US-built Vac-Tron units, both system being available as non-operated rental or for sale and for which U Mole is the exclusive UK and Ireland approved distributor.

The MTS Dino 3 vacuum excavation unit demonstrated at the Hertel Open Day is just one of a family of systems manufactured by MTS. The range comprises stand alone, truck and rail mounted equipment in spoil capacities from 1 m<sup>3</sup> to 12.5 m<sup>3</sup> or greater with road variants available on 2, 3 or 4 axle chassis from 7.5 to 40 tonne gross weight. Across the range the units feature the MTS patented cyclonic air movement system enabling the equipment to provide an industry leading performance with air flow rates of up to 40,000 m<sup>3</sup>/hour at up to 55,000 Pa depression. Being suitable for a wide range of wet and dry applications, all MTS equipment is supplied with a range of specialist air operated excavation tools for ground loosening prior to its removal in the air stream of the equipment.

Available in single, twin and quadruple fan configurations the equipment also features remote control hose booms in Standard Telescopic format, or more

*Demonstrating the capabilities of the MTS DINO 3 to event delegates.*



*U Mole's MTS DINO 3 Vacuum Excavation onsite for the Hertel Open Day.*

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# INDUSTRY, COMPANY AND INSTITUTION NEWS AND RESEARCH



commonly in the full hydraulic Power Boom and Mega Boom configurations. All units provide hydraulic side tipping tanks for spoil removal.

The company's Vac-Tron systems can be skid, trailer or truck mounted and feature hydraulically opening and tipping spoil tanks in a range of capacities. Also now available is the LP Air variant featuring not only on-board high pressure water, but also high performance air compressors for safe dry excavations.

Across the range units are suitable for both wet and dry use with the Vac-Tron LP series offering end users high levels of performance across a wide range of applications. The equipment's modular construction makes it highly flexible when it comes to mounting. Clients can mount equipment directly to stand alone skids, a vehicle chassis, flat-bed trucks or to bespoke trailers, making the equipment highly adaptable for works on the road, on-site, in mines/quarries etc.

The LP AIR models also feature an on-board 150 cfm air compressor as standard. This allows the equipment to excavate with water or air depending on prevailing ground conditions and eliminates the need for a separate air source on site. The systems are available with 1,135 to 2,000 l spoil tank capacities with diesel and super diesel options.

The high performance Vac-Tron reversible flow vacuum pumps, producing between 550 and 1,000 cfm at 15 to 20 in Hg depending on model choice, feature on all units.

All systems feature hydraulic door opening and tipping, super slick tank liner and an integral dump valve for fluid discharge. Tank mounted manual or remote control hydraulic hose support booms are also available as an optional extra.

In closing Frank Gowdy commented: "Overall U Mole and the other Vp plc operations felt that the Open Day was a success and it is hoped this will lead to similar events over other sites in the near future."

## EQUIPMENT RANGE

U Mole 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.

Further to this range and in addition to the suction/vacuum excavation systems mentioned previously, U Mole also supplies a full and extensive range of trenchless and limited dig equipment including: 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](http://www.umole.co.uk)

*Around 150 delegates enjoyed both the demonstrations, the hospitality and the hog roast at the Hertel Open Day at the ConocoPhilips site in Seal Sands, Stockton-on-Tees.*



*The Hog Roast served up to cheer delegates through the poor weather conditions of the open Day.*



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# PIPE JACKING, MICROTUNNELLING, TUNNELLING & AUGER BORING

For General Information on Pipe Jacking, Microtunnelling & Auger Boring [click here](#)



## RAPID ROBBINS MAIN BEAM REACHES RECORD PRODUCTION IN MUMBAI

Deep below Mumbai, a Robbins 6.25 m (20.5 ft) diameter Main Beam TBM is excavating for the 8.3 km (5.2 mile) Mumbai Water Tunnel. The hard rock machine, for the joint venture contractor Unity-IVRCL, has been reaching impressive advance rates, including a recent record-breaking rate for tunnelling in India. In October 2013, the TBM achieved 870.16 m (2,855 ft) in one month. The rate overturned a previous record at Kishanganga for a SELI TBM that advanced 816 m (2,677 ft) in November 2012.

The Robbins machine achieved the impressive advance rate in the diameter size class of 6-7 m (19.7 – 23.0 ft) TBMs. Robbins Field Service Site Manager Leif Schmidt felt that good cooperation played a large part in the project success: “We have a great machine and a great client that is making every effort to do daily maintenance and cutter inspection on the TBM, with a dedicated 4-hour shift per day.”

The achievement is especially notable considering the 109 m (357 ft) depth of the launch shaft. At that depth, the sheer amount of cover, heat in the tunnel, and time to lower materials to the machine are all factors that could potentially affect advance rate. Despite these challenges, the machine has performed exceedingly well. “The machine’s performance is good; we would recommend Robbins machines for hard rock boring.” said Mr. Pravin Titare, General Manager for Unity.

Difficult ground conditions have also been an added challenge, including hard basalt rock, fractured ground, and water inflows. Although the machine is currently working in stable ground, tough geology was encountered in early 2013. The latest record is not the first set by the rapid Robbins TBM. In December 2012, the machine set an Indian record of 57.4 m (188.3 ft) per day. The machine has also had a best week of 252.6 m (828.7 ft). “High advance rates are expected to continue for the duration of the project.” said Mr. Kapil Bhati, Managing Director of Robbins India.

Once the tunnel is completed, it will provide Mumbai’s approximately 20.5 million residents with a consistent flow of clean drinking water, even during the seasonal monsoons that contaminate the city’s water resources. Website: [www.robbinstbm.com](http://www.robbinstbm.com)



*A 6.25 m (20.5 ft) diameter Robbins Main Beam TBM is currently boring for India’s 8.3 km (5.2 mile) Mumbai Water Tunnel.*

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# PIPELINE REHABILITATION

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## EXPANDING CAPABILITIES IN THE INTERANATIONAL REHABILITATION MARKET

From its earliest days, E R Technical Services has prided itself that it could offer not simply materials and equipment to the growing pipeline renovation market but a level of understanding of the techniques involved that enabled its design team to provide intelligent, cost-effective solutions to almost any pipeline problem.

It has often been said that Trenchless Technology is a family of internationally applicable technologies that more often than not operate on a local level, given the variations in conditions, soils, pipe types, operational techniques and legislation that have to be adhered to in any one country or region.

It was with this in mind that, ER Technical Services team, which has a combined knowledge and experience of over 50 years in Trenchless Technology, has made it an aim to establish excellent industry contacts both domestically and internationally through both specialist equipment suppliers and contractors on the ground. This was in part to ensure that a broad customer base could be established and maintained to ensure good prospects for future business but also to enable a depth of knowledge and understanding to be built up based on the wider experiences of the worldwide trenchless community. This approach has now positioned the company at the forefront of today's pipeline renovation industry.

It is off the back of this experience and with significant industry feedback that ER Technical Services', managing director Graham Evans saw something of a shortfall in the marketplace for an organisation that could bring together 'under one roof' the huge range of technical, equipment and materials expertise that now exists across the world.

This led to the launch of CIPP-Global, which is a sister company and website to ER Technical that is designed to bring together this global market knowledge in conjunction with a number of specially selected partner companies.

The intention is to offer a range of independent services including:

- International Training facilities.
- An International Consultancy service.
- International Equipment Hire.
- A Global Skills Network with contacts worldwide from Australia to India and Europe to the USA.

This will not only enable those familiar with trenchless techniques to access information and expertise through a single point of access but will also assist contractors and potential new users in new areas of operation. By combining this level of expertise with the various companies existing range of equipment and materials, will give customers increased flexibility, not just on the selection a renovation materials but with the aim to provide a service that establishes what is the best available solution to the problem in hand. The promise given by the new company is that if it does not have the answer itself it will find it!

## WIDE RANGING FACILITIES

Whilst it is easy to say that this level of service is on offer, it has not been an easy task to pull together the partnerships that are necessary to achieve such an outcome. Graham Evans said of the new service: "This has been a target that ER

Technical Services has been chasing for some time now. It has only been through extensive travel and negotiation with several independent operations in the world of materials, consultancy, contracting and equipment supply that we are now been able to bring together all the aspects necessary to

*The CIPP Global team at the recent International No-Dig event in Sydney, Australia.*



*The new CIPP-Global Home Page.*

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# PIPELINE REHABILITATION

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complete a full analysis of any pipeline problem and come up with the correct solution. Whereas many contractors will be able to offer 'a' solution, it is generally based on the availability of materials and equipment they have to hand and are used to using. The idea behind CIPP-Global is to be able to bring together the components for the best solution to the problem, whatever that might be. This is only something that can be achieved by combining the knowledge and skills of various industry players in the best way possible for the job in hand."

It is no surprise then that the new operation does not only focus on the actual renovation process aspect of a pipe problem but the pre-contract investigation of the problem, the design of the correct solution and then the application of that solution to the highest degree of expertise available.

This can include anything from the correct pipe cleaning process to the CCTV inspection, leak detection preliminary works through the renovation materials design and installation to the final reopening and ultimately sealing of lateral connections where necessary.

Part of the reasoning behind this approach to solving pipeline problems has been that ER Technical Services has always prepared to embrace innovative solutions to assist contractors. For example, the latest being introduction to the company has been that of a new leak detection vehicle which has the capacity to identify, locate and record individual leaks on a pipeline.

The independent mobile unit is operated by fully certificated, trained staff who come to site in a self-contained unit. A visual display identifies problem areas and a site print out is available. The on-board CCTV unit can be used to investigate the areas identified as problematic.

This unconventional approach can also be seen in other areas. For example, when the company growth required additional office services, ER Technical acquired an office services and stationary outlet to provide increased resources whilst also being able to offer specialist office services to other companies on a contract basis.

One aspect that has been highly important with the development of the new CIPP Global brand has been the capacity to maintain a high level of control of both the design and manufacture of the various bespoke solutions and equipment that arise from the design process being adopted. To deliver this level of control a new manufacturing facility has recently been set up in Central Europe. Owned and managed directly by ER Technical Services, this facility will give better control and flexibility for the manufacture of specialist equipment as and when required. Many new developments are currently underway at the new site there.

The range of solutions available in terms of both equipment and materials continues to grow, but according to Graham Evans: "ER Technical Services working in association with its CIPP-Global partners is clearly far more than the usual 'one stop shop'. From answering a few simple questions to assistance in planning and development of method statements right through to project management and site assistance, the new organisation can offer much more than any one company might on its own. Furthermore given the global connections we now have established, it is now possible to bring to bear some of the best site expertise available no matter what the prevailing conditions and circumstances might throw at us. Somewhere in the organisation someone will have experience of a similar situation from somewhere in the world." Websites: [www.CIPP-Global.com](http://www.CIPP-Global.com) or [www.drainage-support.com](http://www.drainage-support.com)



*The range of equipment and services available through CIPP-Global on show at the dtX event in Cheltenham, UK. Inset: A cutter for reopening lateral connections.*

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*The new leak detection van on site near the London Eye.*

*Inset: The newly introduced leak detection system.*

# HORIZONTAL DIRECTIONAL DRILLING

For General Information on Horizontal Directional Drilling [click here](#)



## NEAR-SURFACE DRILLING FOR FIBRE GLASS NETWORK EXTENSION

In the city of Ahaus in Germany and the surrounding area, some 60 km of fibreglass cable is being installed for the Bornet GmbH Borken network. Approximately 30 km are already installed underground. The installation of the new fibreglass cable itself cannot commence before at least 40% of the house owners place an order for the connection. The installation will subsequently be carried out using a trenchless method.

When driving to the jobsite area, large-scale advertising posters can be seen set up along the roadside, erected by the Eggert construction company, one of the drilling companies that will carry out the work, to catch the eye of passers-by. The attention of car drivers and pedestrians passing along the road is drawn towards the application of the trenchless installation method.

This is an idea worthy of imitation elsewhere to make people aware of the advantages of trenchless installation technology.

The fibre glass network will be installed into ND 50 plastic protection pipes (or ducts), each of which will host either 9 or 7 micro-ducts each with a diameter of 10 mm. The path for these protection pipes runs under the pavement or directly beneath the roadbed and will therefore be between 350 - 400 mm deeper than the upper surface of the road.

Such near-surface drilling operations are plain sailing for the compact-designed and versatile GRUNDODRILL 4 X small drill rig manufactured by Tracto-Technik. It does its job efficiently and



The GRUNDODRILL 4X drilling rig during a pilot bore operation. Inset bottom right: Bore 4 starts with cover of less than 400 mm. Inset top left: Monitoring the pilot bore.

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# HORIZONTAL DIRECTIONAL DRILLING

For General Information on Horizontal Directional Drilling [click here](#)



safely. Near-surface drilling does not require elaborate excavation works so the cost for working pits is reduced.

Once on site, the drill rig is quickly aligned and can start drilling immediately. Bore lengths for the network installation works vary between 30 m and 120 m. On arrival at the target, the pilot bore head



*Above: The pilot bore drill head arrives in the target pit. Inset: The protection pipe pull-in operation underway.*



*Left: Nine pipes into one protection pipe - the fibreglass cable is blown in later.*

is replaced by an upsizing head/reamer and the pipe is pulled in with the help of a cable stocking.

The small start or target pits are also designed and positioned to serve as access pits for the necessary house connections which will be required to install the fibreglass cable to the residence once orders are received.

The house connections will be established using a soil displacement hammer, ensuring that trenchless installation techniques are used as much as possible.

Contractors Kemper, of Reken, and Eggert, of Heek, work with several drilling crews as sub-contractors for the main contractor Heming, of Stadtlohn. Both companies utilise the GRUNDODRILL 4X drilling machines with great success, as defined through the high daily installation rates.

Winfried Leusbrock, manager with Eggert GmbH added: "The Grundodrill 4X is ready for work in a flash and takes up very little road space. Low operating costs and minimal drilling fluid consumption are further assets. Even though the drill rods are inserted manually, the crew loves to work with this drill rig. That is why we have already ordered a second rig."

He went on to say: "The capacity utilisation of our drill rigs - we even have a GRUNDODRILL 15 XP among our fleet of machinery - is guaranteed until far into the coming year."

Website: [www.tracto-technik.com](http://www.tracto-technik.com)

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## NEW APPROACH TO SEALING PIPES AND CULVERTS

Stopper Specialists, a division of Groundforce, continues to expand its product portfolio by introducing the largest sized Lampe Cone Sealing Cushions, currently available for hire in the UK, to its already extensive range of specialised inflatable stoppers.



*The new large-sized Lampe Cone Sealing Cushions from Stopper Specialists.*

Since the introduction of the Cone Sealing Cushion range to the Stopper Specialists' rental fleet in 2012, there has been growing interest throughout the construction industry, due to the Cone's ability to not only to seal a round pipe, but also irregular shaped culverts and elliptical pipes.

To accommodate the growing interest from contractors, that are looking for effective and alternative options when it comes to sealing large pipes or culverts, Stopper Specialists has been able to react to industry demand with the introduction of these specialist Cone Sealing Cushions.

By using these new cone sealing cushions contractors can alleviate many of the traditional problems faced when considering using stoppers of this magnitude, where extensive preparations would normally be required, including digging up roads in order to remove part of a manhole structure. These cushions may be folded and installed through a standard manhole opening, saving both time and costs.

The Cone Sealing Cushion is also extremely versatile and can be used in various applications. These include, sealing circular pipes with diameters up to 3,200 mm, and culverts or ovoid pipes which have an inner surface dimension of up to 10 m. Weighing less than 180 kg, and with the ability to fold the fabric prior to positioning and utilisation, installation is considerably easier than that of the more traditional cylindrical stoppers and they can also be used for regular blanking off, if required. There has also been increasing interest for this type of sealing cushion for use in controlling stream culverts where remedial work is required, as well as floatation of large diameter pipes on outfall projects.

John Wilson, National Sales Manager for Stopper Specialists said: "We are continually expanding our product range to meet the requirements of our customers; this latest product offering ensures we can offer the most compressive range of stoppers to our customers." Website: <http://www.groundforce.uk.com/stopperspecialists/Products/Flow+Control/Cone+Sealing+Cushion>

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For General Information on Support Equipment & Accessories [click here](#)



## NEW HIGH CAPACITY PIPE COIL TRAILERS FOR WESSEX WATER

Wessex Water has taken delivery of six high capacity pipe coil trailers manufactured by Steve Vick International. The newly designed 90/500 trailers are claimed to be the first available in the UK to transport and dispense 500 m coils of PE pipe with diameters from 63 mm to 90 mm.



*One of the six Steve Vick trailers purchased by Wessex Water, loaded and on its way to site.*

After extensive research, Wessex Water selected the new trailers because they found them to dispense pipe very smoothly and quickly thanks to a hydraulically raised hexagonal central drum configuration. Wayne Johnson, explained: "With the trailers we were using we had to allocate two or three operatives to assist in dispensing the PE pipe but with these new trailers, the pipe comes off so smoothly that it can be handled easily by one person."

This is a completely new design from the company which began manufacturing pipe coil trailers in the 1980s. With its hexagonal frame, the central drum is moved from loading/dispensing position to the transport position by hydraulics. The method of removing and replacing the drum bars in order to load the pipe coil has been simplified and is now a one-man operation.

The ease with which pipe is dispensed from the trailer is demonstrated by the fact that, once loaded onto the central drum, a 500 m coil can be easily rotated by hand to allow positioning of the leading edge prior to dispensing. A central drum brake disc, which is mechanically applied, allows the operative to control the rate at which the pipe comes off the coil thus avoiding the risk of the drum rotating freely. Any unused pipe can easily be re-coiled in a single-handed operation for use on another project.

### ALL PROCEDURES CARRIED OUT FROM GROUND LEVEL

With operational safety being paramount, all loading and dispensing procedures are carried out from ground level with the 90/500 trailer avoiding the need for operatives to climb onto the frame or put their hands within the rotating drum area.

Both ends of the pipe are secured until the moment of dispensing to prevent the PE 'springing away' thus avoiding an injury hazard. A rear safety cage, which encases and therefore secures the coil during transport, is raised and lowered using hydraulics when loading/unloading coils.

As the pipe is dispensed, the leading end of the PE is passed through a guide roller unit mounted on the rear of the trailer. This assists the smooth dispensing/re-coiling of the pipe.

### PIPEBURSTING

Wessex Water is using the four trailers in conjunction with pipe bursting equipment, in pipe renewal projects around the region. Wayne said: "The new trailers work really efficiently on these pipe bursting projects with just one operative controlling the PE as it is installed in the ground. We are also finding that we are using less PE as we can re-coil unused pipe to use on the next project."

The new Steve Vick 90/500 trailer is designed to hold coils with an inner diameter of 1.8 m and a maximum coil weight of 800 kg. Despite its high capacity, the 90/500 is a single-axle design resulting in maximum manoeuvrability during transport and in onsite conditions. Weighing in at less than 2,000 kg fully laden, it may also be towed by a typical transit vehicle.

Steve Vick International offers comprehensive training packages on the 90/500 trailer which meets PUWER requirements and is CE approved. It comes with full road lighting (LED is optional) and for overseas customers the trailer can be transported 'flat-pack' to reduce delivery costs, and is suitable for registration in all EU countries. Website: [www.stevevick.com](http://www.stevevick.com)

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## UKSTT NEWS

### UKSTT 20th Annual Dinner & Awards Ceremony – **SAVE THE DATE**

Come along and help the UKSTT celebrate 20 years of trenchless technology in style on Friday 16 May 2014. Already confirmed as sponsors are H5O, O'Connor Utilities Ltd, U Mole, a division of Vp plc, Severn Trent Water, Wessex Water, UKDN Waterflow, Lanes Group, Trelleborg, Pipe Equipment Specialists. If you would like to join them in sponsoring these prestigious awards then please contact Lynn Maclachlan on 01926-330935 or [admin@ukstt.org.uk](mailto:admin@ukstt.org.uk).



Packages available are:

Sponsorship Package (No. available)	Attendance at Chairman's Reception	Sole Award Presentation		Sole Award Presentation	Awards Dinner Table Brochure entries	Banner in Hall	Corporate Pull Up banner in Lobby (1m width)	Inclusion in pre/post Event PR	Tickets (inc)	Price  (Ex.VAT)
		-Product Innovation	-Young Engineer							
Platinum (2)	2 guests	✓			- Half Page Company Logo on Front cover	Front	✓	✓	2	£1,500
Gold (5)	2 guests	-			Logo over	Sides	✓	✓	2	£950
Silver	2 guests	-			Corporate Logo on Back cover	Back	-	-	-	£375*

**SOLD OUT**

**SOLD OUT**

Could your project be a winner? UKSTT is now accepting entries into the Awards which are open to any project, large or small, that was carried out between 1 January 2013 and 31 December 2013.

Any tickets booked and paid for before 31 March 2014 will receive a discount. The ticket prices are:

	Early Bird Rate	Standard Rate
Table(s) for 10	£702 + VAT	£752 + VAT
Tables(s) for 12	£842.40 + VAT	£902.40 + VAT
Individual(s)	£70.20 + VAT each	£75.20 + VAT each

After Dinner entertainment will be provided by Paul Tonkinson, a Yorkshireman, occasional marathon runner and sometime radio presenter as well as an established star of the stand-up circuit.

If you would like purchase tickets to these prestigious awards then please contact Lynn Maclachlan on 01926-330935 or [admin@ukstt.org.uk](mailto:admin@ukstt.org.uk).

### UKSTT Kicks Off The University Lecture Year With A Bang

Following careful liaison the lecture programme has got off to a great start for the 2013/14 season with introduction lectures on key aspects of the trenchless industry delivered to undergraduates at University of Manchester and Brunel University and Pipeline Days already completed at University of Warwick and Brunel University. Steve MacKellar from Jacobs covered University of Manchester with Peter Crouch, UKSTT Technical Secretary, John De Rosa from Radius Pipe systems and Adrian Davis-Jordan from MWH delivering both Pipeline Days to the year three undergraduates at University of Warwick and Brunel University.

Peter also covered the introductory year 2 undergraduate lecture on general trenchless systems and techniques.



That is nearly 200 undergraduates already contacted and hopefully persuaded to think trenchless as a first option for the future as they prepare to enter industry.

The introductory lecture sets out the range of materials, systems and techniques and touches on many of the benefits and advantages of opting for trenchless methods. It is intended only as an overview and with slides, animations, movie clips and information. The minimum outcome is for students to be aware and open to options in this sector.

On the other hand the follow up year 3 undergraduate full day workshop covers in much greater detail many of the 'other' aspects engineers need to appreciate to design pipelines other than just the essential hydraulic analysis. Covering material



selection and properties to an appreciation and detailed design understanding of the importance of embedment, compaction, and pipe support as well as health and safety, environmental awareness, legislation, customer service, the needs of contractors and the importance of whole scheme design.

In the end we all know that poor planning and preparation results in poor performance and project delivery so we try to include as many aspects as possible.

‘It’s a very full day for students and lecturers but the response and quality of feedback and engagement makes it all worthwhile’. ‘I’d like to thank my colleagues who support this university outreach programme from their own time and hope they will continue to support our future engineers in their early days development.’

## UKSTT Welcomes New Council Members

October saw the UKSTT sub committees in full swing with new council members Matthew Izzard and Jim Albarella already getting up to speed and involved in the diverse range of initiatives and activities of the Society.

‘‘It is always essential that council offices honour their commitments to the Society when making the decision to stand and take a place on one of our committees as well as the council. It is not just about turning up to meetings.’’ said Ian Ramsay, UKSTT Chairman, when welcoming Matthew, Kobus, and Jim, TT-UK.

‘‘It is about enthusiasm and sustained contribution on whatever aspect you commit to supporting, not only at meetings within UKSTT, but as our representative on other groups or encouraging support from colleagues and associates.’’

‘‘When members make a commitment to deliver something it should not require them to be chased or reminded, we are all busy professionals and our time is precious so spending chasing others or covering when they do not deliver is doubly difficult when you are already giving your time to a society such as UKSTT. We always welcome new co-opted or appointed officers hoping they will inject new ideas or perspectives to the work of the society.’’

If you want to get more involved or feel you could do better then give Ian a call or send him an email. We are always keen to hear from members and particularly when they are willing to help improve what we try to do for our membership in particular and society in general.



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## UKSTT EVENTS

### Joint UKSTT/PIG Evening Seminar Sessions

The UKSTT is holding a couple of joint evening seminar session with Branches of the Pipeline Industry Guild. These events will highlight the winners and short-listed entrants into the UKSTT Annual Awards held in April 2013. They are taking place with the:

Midland Branch – 4 December 2013

Northern Branch – 18 February 2014

For more information please contact [admin@ukstt.org.uk](mailto:admin@ukstt.org.uk) or 01926-330935.

### No Dig Live 2014

The 12<sup>th</sup> NO-DIG LIVE will be taking place between 16 and 18 September 2014 at Peterborough Arena at the East of England Showground.

The event offers a state of the art indoor exhibition hall with adjacent demonstration grounds and first class seminar accommodation.

The 2014 programme will continue with the popular early morning ‘Business Briefing’ programme held daily from 0800 until the opening of the exhibition at 1000.

Visitors are invited to sign up free of charge and join the debate on the changing daily topic.

Live demonstrations of equipment showing a variety of trenchless techniques are carried out throughout the day, many of which are on request, while others are included in a timetable in order that visitors can plan their day accordingly.

Full details of exhibiting, including floor plans are being prepared for distribution to the market place and will shortly be made available on the show website: [www.nodiglive.co.uk](http://www.nodiglive.co.uk)

Come as see the UKSTT on Stand 88 and make use of our ‘‘Meet & Greet’’ area.

Companies interested in registering their interest in exhibiting are invited to contact Paul Harwood, Sales Director of Westrade Group Ltd on +44 (0) 845 094 8066 or email: [pharwood@westrade.co.uk](mailto:pharwood@westrade.co.uk)





# UKSTT NEWSLETTER



Brought to [UKSTT](#) Members by:



## ISTT AFFILIATED SOCIETY NEWS

### Polish Foundation for Trenchless Technology

Polish Foundation for Trenchless Technology (PFTT), with the support of ISTT, is organising the VI Conference and Exhibition NO-DIG Poland 2014 at Kielce-Cedzyna. The event will be held between 8 and 10 April 2014.

The conference attracted wide attention in the previous years and it has become well recognisable on the trenchless technology market. So far PFTT has had the honour to host individuals and companies from different parts of the world, including Asia and North/South America.

For further information visit the official web site of the conference: [www.nodigpoland.tu.kielce.pl](http://www.nodigpoland.tu.kielce.pl). If you have any further questions regarding NO-DIG Poland 2014 please do not hesitate and contact the conference office at: [nodigp@tu.kielce.pl](mailto:nodigp@tu.kielce.pl).



### South African Society for Trenchless Technology

NO-DIG SOUTH AFRICA returns to the CSIR Convention Centre in Pretoria for the second international Conference and Exhibition, between 29 and 30 July 2014.

Hosted by the South African Society for Trenchless Technology (SASTT), the exhibition is a unique opportunity for suppliers to showcase products and services at the only event in the African continent to focus on trenchless technology.

A huge programme of new infrastructure installations, as well as extensive renovation to ageing underground services continues to be carried out across South Africa, particularly in the major conurbations.

As a result there is high demand for engineers, planners, contractors and operators to see first hand the products on display, to evaluate the benefits of using trenchless methods in underground pipeline construction and maintenance.

Visitors to NO-DIG SOUTH AFRICA 2014 will be provided with a one-stop-shop to see and evaluate a wide range of equipment and services which will truly demonstrate trenchless technology and its capabilities.

Among the displays will be Horizontal Directional Drilling equipment (HDD), pipe rammers, pipe bursters, pipe inspection, CCTV surveying, pipes and lining materials, cleaning equipment, consulting services – and much more.

An integral part of the event is the Conference programme which will include a newly updated Trenchless Masterclass presented by speakers from the International Society for Trenchless Technology (ISTT).

The programme will be both educational and practical, combining training modules with case study presentations. More information can be found at: [www.nodigsouthafrica.com](http://www.nodigsouthafrica.com)



### Turkish Society for Infrastructure & Trenchless Technology

The Turkish Society for Infrastructure & Trenchless Technology is organising 2 events. These are:



**No-Dig Turkey 2014** - Underground Infrastructure & Trenchless Technology Conference & Trade Fair will be held in Istanbul Expo Center between 28 and 31 August 2014.



The primary target is to create awareness about the latest developments about the underground infrastructure and trenchless technologies and to bring the global industry under the same roof. Underground Infrastructure & Trenchless Technology Conference & Trade Fair will be one of the most important events regarding infrastructure and trenchless technologies all over the world. More information can be found at: [www.nodigturkey.com](http://www.nodigturkey.com)



**No-Dig Istanbul 2015** - The Turkish Society for Infrastructure Trenchless Technology, with the support of ISTT, is organising No-Dig Istanbul 2015. The event will take place between 28 and 30 September 2015 at WOW Istanbul Convention Centre. More information can be found on the exhibition website at: [www.nodigistanbul.com](http://www.nodigistanbul.com)



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## EVENTS AND MEETINGS



### TUNNELLING AND MICROTUNNELING SHORT COURSE - A GREAT SUCCESS

The 2<sup>nd</sup> Tunnelling and Microtunnelling Short Course was held by TSITT (Turkish Society for Infrastructure and Trenchless Technology) and TTS (Turkish Tunnelling Society) in Istanbul TR between 27 and 28 September, 2013. Many local and international participants attended this unique tunnelling event for Turkey.

The Short Course started with the opening speeches from Yasin Torun - Chairman of TSITT and Nuh Bilgin - Chairman of TTS. Afterwards, Cemal Balci of ITU (Istanbul Technical University) made a presentation with the title 'Site and Laboratory Investigations'. Then, Nuh Bilgin made a presentation with the title 'Principles of TBM Design, Selection and Performance Prediction, Problems Encountered in Large Diameter TBM Tunnelling'. Afterwards, Daniele Peila - Vice President of ITA (International Tunnelling and Underground Space Association) made a presentation with the title 'Steel Pipe Umbrella and Forepoling: Technology and Design'. Then, Georg Anagnostou of ETH Zurich made a presentation with the title 'Face stability analysis for mechanised tunnelling with EPB or Slurry shields'.



*Ozgür Savas Ozudogru presenting a paper entitled 'Manufacturing of Disc Cutters, Selection of Suitable Disc Material for Different Formations, General View and Suggestions'. Inset: the Short Course audience.*

In the afternoon session, Lutz zur Linde of Herrenknecht AG made a presentation with the title 'Utility Tunnelling'. Then Ozgür Savas Ozudogru of E-BERK made a presentation with the title 'Manufacturing of Disc Cutters, Selection of Suitable Disc Material for Different Formations, General View and Suggestions'. Afterwards, Taner Bilge of MATES made a presentation with the title 'Wear Protection and Hard-Facing Applications in TBMs'. The last presentation of the first day was made by Ibrahim Ocak of IU (Istanbul University) with the title 'Prediction of Surface Settlements for Urban Tunnelling, its Effects and Solution Suggestions'.

The second day started with the presentation of Muammer Cinar of PIRAMIDA with the title 'TBM Applications in Gassy Grounds'. Then, Fevzi Aksu of IKSA made a presentation with the title 'Mobile Laboratory for Soil-Muck Conditioning Applications in Shielded Tunnelling'. Afterwards, Cheng Chin Keong of ICOP SpA made a presentation with the title of 'Longest Multi Curvature Sewer Tunnel in the Middle East'. Then, Alun Thomas of RAMBOLL Group made a presentation of 'Fibre Reinforcement in Tunnelling – Sprayed Concrete and Segments'. Afterwards, Berrie Van Luijn of SOIL ID made a presentation of Waterproofing in Tunnelling.

In the afternoon session, Mucahit Namli of IMM (Istanbul Metropolitan Municipality) made a presentation with the title 'Microtunnelling Applications in Turkey'. Then, Wim Smet and Wouter Roels of SMET Tunnelling made a joint presentation with the title of 'Long and Curved Microtunnelling Applications'.

The last presentation of the short course was made by Hanifi Copur of ITU with the title 'Roadheader Selection, Performance Prediction, and Applications'.

Attendees numbered some 150 from 14 different countries including Germany, Denmark, Netherlands, Belgium, Italy, Bosnia, Greece, Saudi Arabia, Azerbaijan, Malaysia, Canada, Korea, Australia and Turkey. All individuals, institutions and companies around the world are kindly invited to take place in tunnelling and microtunnelling events of Turkey in a country located in the intersection point of Europe, Asia and Middle East. Website: [www.nodigturkey.com](http://www.nodigturkey.com)

### SPONSORS LINKS

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[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.

**NO-DIG SOUTH AFRICA 2014**  
29-30 July 2014  
CBR International Convention Centre, Pretoria, South Africa  
Second International exhibition and conference on trenchless technology

**Exhibition space is selling fast**  
At South Africa's second major trenchless technology event

**INTERNATIONAL EXHIBITION**  
The industry is lining up to showcase the very best equipment and services applied to the installation and refurbishment of underground utilities. If you're a supplier, don't miss this opportunity to exhibit. [Book your space today](#)

**CONFERENCE & ISTT TRENCHLESS MASTERCLASS**  
The two day conference programme, incorporating the newly updated International Society for Trenchless Technology (ISTT) Masterclass is a highly educational forum, offering CPD points to attendees. Local and international case study presentations are also invited for inclusion in the programme. **Note: Call for papers closes 15 January 2014**

**Sponsors:**

Contact us for information on space availability and sponsorship packages – email [pharwood@westrade.co.uk](mailto:pharwood@westrade.co.uk) for further details. For full details of this important event visit [www.nodigsouthafrica.com](http://www.nodigsouthafrica.com)

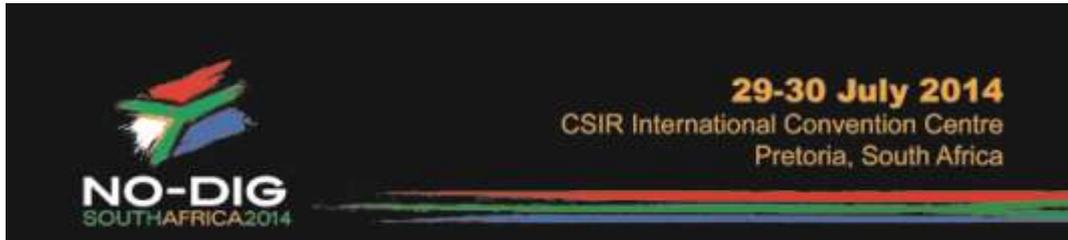
## EVENTS AND MEETINGS



### MAJOR SPONSOR FOR NO-DIG SOUTH AFRICA 2014

### SPONSORS LINKS

Click Name for website access



Platinum sponsorship of the second NO-DIG SOUTH AFRICA Conference and Exhibition has been confirmed by Vermeer which was also a major sponsor of the inaugural event held in 2011. NO-DIG SOUTH AFRICA will be held between 29 and 30 July 2014 at the CSIR International Convention Centre in Pretoria.

Vermeer is taking the opportunity to promote its range of specialised product lines and the markets they serve across Southern Africa. Reef Trenchless Technology, which also sponsored the first event, has confirmed Bronze sponsorship for 2014.

NO-DIG SOUTH AFRICA is organised in conjunction with the Southern Africa Society for Trenchless Technology (SASTT), an extremely active organisation which brings together engineers and suppliers to promote the environmentally friendly technologies which can contribute to minimising the huge traffic congestion problems encountered on South Africa's major cities and conurbations.

Event organiser, Westrade Group Ltd, reports that exhibition space is being taken up rapidly, both by companies based in South Africa and also overseas companies which wish to expand their market into this region, where there is huge potential to participate in an extensive programme of new infrastructure installations, as well as extensive renovation to ageing underground services.

An integral part of the event is the Conference programme which will include a newly updated Trenchless Masterclass presented by speakers from The International Society for Trenchless Technology (ISTT). The programme will be both educational and practical, combining training modules with case study presentations. Website: [www.nodigsouthafrica.com](http://www.nodigsouthafrica.com)

[Westrade](#)

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.

### INTERNATIONAL NO-DIG MADRID 2014 - CALL FOR CONFERENCE PAPERS

The ISTT's 32<sup>nd</sup> International No-Dig Conference and Exhibition is to be held in Madrid, between 13 and 15 October 2014 at the prestigious IFEMA Convention Centre.

Hosted by the Iberian Society for Trenchless Technology, this is the first time that the event has been held in Spain. Madrid is ideally placed with excellent transportation networks and delegates are expected to be drawn from around Europe, as well as members from ISTT's 27 affiliated Societies around the world.

The organiser is now calling for papers to be included in the conference programme and prospective authors are invited to visit the official website (see link below) where full details may be found for submitting proposals. The deadline for submissions is 28 February 2014.

"We are honoured to invite the international community to Madrid in 2014." commented Angel Ortega, President of the Iberian Society for Trenchless Technology (IbSTT). "Our Society, founded in 1995, is the image of the Iberian trenchless technology industry and has become the main reference entity of this unceasingly growing sector. Madrid's exceptional facilities and infrastructure plus the extensive range of cultural opportunities, guarantee the success of any event staged in Madrid."

INTERNATIONAL NO-DIG 2014 is organised on behalf of ISTT and IbSTT by UK-based Westrade Group which are reporting that exhibition sales are already riding high, with many of the international players already booking their stands and negotiating sponsorship arrangements. Website: [www.nodigmadrid.com](http://www.nodigmadrid.com)



# EVENTS AND MEETINGS



## TRENCHLESS ASIA 2014 – LAST STANDS REMAINING

### SPONSORS LINKS

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[Westrade](#)

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.

Organiser of the seventh TRENCHLESS ASIA 2014 Exhibition, Westrade Group, has reported that exhibition space is almost sold out at the event to be held in Singapore between 2 and 4 June 2014.

For the second time, TRENCHLESS ASIA will be held within the Singapore International Water Week (SIWW) which attracted some 19,000 visitors from 104 countries in 2012. This co-location proved to be extremely popular with exhibitors looking to expand their market to a wider audience of engineers looking for solutions to minimise disruption while new installation and essential maintenance works are undertaken to repair underground utilities.

TRENCHLESS ASIA will feature country pavilions for Singapore and Germany while individual companies are also represented from USA, UK, Russia, China and India.

“Exhibitors participating in TRENCHLESS ASIA can be sure of making valuable contacts at this show which has an outstanding reputation within the trenchless market.” commented Paul Harwood, TRENCHLESS ASIA’s Show Director. “In addition, SIWW has a very strong following from engineers all over the world looking for environmentally friendly technologies and they will be sure to find many innovations.” Website: [www.trenchlessasia.com](http://www.trenchlessasia.com)

United Kingdom Society for Trenchless Technology

# UKSTT

## Benefits Society... Society Benefits

- **Skill training** (City and Guilds approved training)
- **Promoting environmentally friendly solutions**
- **Educational programme** (university lectures etc)
- **Promotes awareness** (with government and clients)
- **Highlights and promotes innovation.**
- **Encourages excellence** (Awards dinner)
- **Technical support**
- **Various membership options** (Corporate, associate, student etc)
- **Website links** (Direct to your company)
- **Free promotional opportunities** (Circulated to 12,000 targeted electronic readers and 4,000 direct mail)
- **Lead generation** (enquiries and tenders worth millions of pounds circulated each year)
- **CPD qualifying technical events**
- **Direct links with clients** (Networking opportunities)
- **Newsletter**

Join the trenchless revolution: [www.ukstt.org.uk](http://www.ukstt.org.uk)



**NEW VENUE FOR 2014**



**16-18 September 2014**  
Peterborough Arena, East of England Showground, Peterborough PE2 6XE



**Exhibition  
Early Bird  
Rate**  
[CLICK HERE](#)

# NO-DIG LIVE 2014

Be part of the UK industry's only showcase dedicated to trenchless technology, attracting visitors from more than 25 countries in 2014.

## SHOWCASING TRENCHLESS TECHNOLOGY

*Europe's leading showcase featuring innovative no-dig solutions.*

## SPECTACULAR LIVE DEMONSTRATIONS

*See the equipment in action. Demonstrations all day, every day.*

## FREE BUSINESS BRIEFINGS

*Sign up to the early morning briefings on topical industry issues.*

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Call Paul Harwood on 0845 094 8066  
or email [pharwood@westrade.co.uk](mailto:pharwood@westrade.co.uk)  
to book your stand or visit the show  
website for full information

[www.nodiglive.co.uk](http://www.nodiglive.co.uk)



# TTUS 2014

## China International Trenchless Exhibition

2014 / MARCH 1-3  
CHINA IMPORT AND EXPORT FAIR • PAZHOU COMPLEX

Located Event: China Tunnel and Underground Space Equipment Exhibition

### About us

China International Trenchless Exhibition (TTUS 2014) will be held from March,1-3, 2014 in Guangzhou, the biggest city in South China. In here, we sincerely invite your company to attend TTUS 2014.

TTUS is a unique and comprehensive exhibition focusing on underground construction in South China which consists of Trenchless Pavilion and Tunnel & Underground Space Pavilion. Hosted by China Municipal Engineering Association, this fair will show and exhibit all related newly technology and product. We will organize all domestic brand manufacturers and traders to exhibit and welcome oversea enterprises join us. TTUS will be the best platform for you understanding China market, extending business and finding out industry trends and latest technology

Let's enjoy the TTUS 2014 feast together!

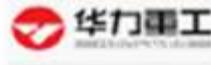
### Sponsor:

China Municipal Engineering Association  
Guangdong Society for Trenchless Technology

### TTUS 2013 Review

Local Exhibitors: 47    International Exhibitors: 6  
Visitors: 3,523    Show Space: 5,000m<sup>2</sup>

China Int'l Trenchless exhibition together with China International Water Supply and Sewerage & Municipal Pipeline Exhibition to be one event at Guangzhou China, the total exhibition space reach 5,000m<sup>2</sup>



### TTUS 2014

Expected show space: 7500 m<sup>2</sup>

Expected Exhibitors: 81; Visitors: 3,800

### Co-located Event

China Int'l Block and Brick Technology & Equipment Exhibition

Website: [www.china-mete.com/sd](http://www.china-mete.com/sd)

The largest trenchless trade fair in China!

Expected 81 exhibitors with 7,500m<sup>2</sup>

For further information please contact: Miss Sally  
[marketing2@grandeurhk.com](mailto:marketing2@grandeurhk.com) / [TTUS2014@yeah.net](mailto:TTUS2014@yeah.net)

Tel: +86 2028966533 Fax: +86 2082579220

### Media Partner:





# INTERNATIONAL NO-DIG *Madrid* 2014

IFEMA Convention Centre 13-15 October 2014

## BOOK NOW to catch the Early Bird rates.

- The 32nd International No-Dig event will be held in Madrid - the first time that the Iberian market has played host to this important annual forum.
- New marketing opportunities by exhibiting in Madrid, strategically placed to attract visitors from all over Europe as well as South America.
- Take part in the conference which is renowned for presenting the latest advances in technology from around the world.

Book now to take advantage of the exhibition early bird rates, as well as the attractive sponsorship packages.

*Download Event Prospectus [here](#)*

*Visit the website at [www.nodigmadrid.com](http://www.nodigmadrid.com)*

The International No-Dig Madrid 2014 Conference and Exhibition is organised on behalf of IbSTT and ISTT by Westrade Group Ltd, who have been organising No-Dig and Trenchless events in the UK, Middle and Far East since the first No-Dig Event held in London in 1985.

32nd International NO-DIG



Hosted by



Organised by



Exhibition Sales and Sponsorship Opportunities  
Contact: Paul Harwood, Sales & Marketing Director  
E: [pharwood@westrade.co.uk](mailto:pharwood@westrade.co.uk)

# Last few stands remaining!

Don't miss this exciting opportunity for 2014



2-4 June 2014

Marina Bay Sands Convention Centre,  
Singapore

Located in Singapore International Water Week (SIWW)



Marking the seventh in this successful series of events, TRENCHLESS ASIA returns to Singapore in 2014, with a reputation for attracting top quality audiences to this highly focused specialist exhibition.

TRENCHLESS ASIA 2014 will once again be held within the sixth annual Singapore International Water Week (SIWW) which attracted some 19,000 visitors from 104 countries in 2012. SIWW is an all embracing industry event and its audience will doubtless have a keen interest in attending the TRENCHLESS ASIA specialist area to expand their knowledge and view the latest technology and products available.

[Click here to view](#)

> [Exhibition Prospectus](#) > [Floor Plan](#) > [Space Application Form](#)

Visit the show website for updated information  
[www.trenchlessasia.com](http://www.trenchlessasia.com)

## BOOK NOW

To ensure your participation in TRENCHLESS ASIA 2014 and to reserve priority space, contact Paul Harwood.

Email: [pharwood@westrade.co.uk](mailto:pharwood@westrade.co.uk) or call: +44 (0) 845 094 8066

EXHIBITION ENTRANCE IS FREE OF CHARGE  
[CLICK HERE TO REGISTER](#)

Organised by



Located in



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series leader for trenchless technology



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Media Partner



# EVENTS AND MEETINGS



## 2013

**December 3-4**

**SBWWI Intelligent Networks Leakage and Monitoring Workshop and Conference 2013** - Kenilworth, UK.

Details from: [www.sbwwi.co.uk](http://www.sbwwi.co.uk)

**December 10-11**

**Arabian Tunnelling Conference & Exhibition** - Dubai.

Details from: <http://uae-atc2013.com/>

## 2014

**March 1-3**

**China International Trenchless Technology & Tunnel and Underground Space Equipment Exhibition (TTUS 2014)** - Guangzhou, China.

Details from: [www.china-mete.com/sd](http://www.china-mete.com/sd)

**March 16-19**

**Drainage and Sewerage Middle East 2014** - Venue to be announced.

Details from: [www.drainageandsewerageme.com](http://www.drainageandsewerageme.com)

**April 8-10**

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

Details from: [www.nodigpoland.tu.kielce.pl](http://www.nodigpoland.tu.kielce.pl) or for the show brochure click [here](#)

**June 2-4**

**Trenchless Asia 2014** - Singapore

Details from: [www.trenchlessasia.com](http://www.trenchlessasia.com)

**June 3-6**

**International Trade Fair and Conference for Trenchless Technologies NO-DIG Moscow** - Moscow, Russia

Details from: [www.nodig-moscow.ru](http://www.nodig-moscow.ru)

**June 3-6**

**CityPipe 2014 - International Trade Fair 'Piping Systems for Municipal Infrastructure: Construction, Diagnostics, Repair and Operation** - Moscow, Russia

Details from: [www.citypipe.ru](http://www.citypipe.ru)

**July 29-30**

**NO-DIG SOUTH AFRICA Conference and Exhibition** - Pretoria, South Africa.

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

**August 28-31**

**No-Dig Turkey 2014** - Istanbul, Turkey.

Details from: [www.nodigturkey.com](http://www.nodigturkey.com)

**September 16-18 NOTE NEW VENUE**

**No-Dig Live 2014** - Peterborough, UK

Details from: [www.nodigliver.co.uk](http://www.nodigliver.co.uk)

**October 13-15**

**International No-Dig 2014** - Madrid, Spain

Details from: [www.nodigmadrid.com](http://www.nodigmadrid.com)

## 2015

**September 28-30**

**No-Dig Istanbul 2015** - Istanbul, Turkey.

Details from: [www.nodigistanbul.com](http://www.nodigistanbul.com)

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](mailto:ian@nodigmedia.co.uk)