

TRENCHLESS WORKS

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ISSUE 43

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INDUSTRY, COMPANY AND INSTITUTION NEWS AND RESEARCH



INNOVATIONS FOR A BETTER ENVIRONMENT

TT-UK attended the Highways & Utilities Innovations Day held at Longbridge, Warwickshire, UK on 10 February 2010. The event, organised in partnership with West Midlands HAUC, Severn Trent Water and Enterprise, ensured that the day was packed full of live demonstrations in a practical hands-on working environment. Due to popular demand, the organisers requested that TT-UK carry out live demonstrations of its market-leading Grundomat Impact Molding Trenchless pipe and cable laying equipment.



A 65 mm diameter Grundomat being demonstrated to an enthusiastic audience.

Witnesses to the demonstrations were guests from the UK Department for Transport, including Patricia Hayes, Director of Policy, as well as a cross-section of visitors from Local Authorities and agencies.

The Grundomats were accurately operated by TT-UK's Training Manager, Lloyd Richards, whilst a running commentary on Grundomat's trenchless applications was given by Jim Albarella, TT's Customer Services Manager. The assembled group showed their appreciation for the accuracy and speed as the impact mole moved from a pre-excavated launch to exit pit.

TT-UK's mobile exhibition bus was also on view, displaying not only the Grundomat range, but also the Grundoburst on-line pipe replacement system using the advanced Quicklock rod technology available in models from the manhole launched Grundoburst 400S (45 t) up to the massive Grundoburst 2500G (250 tonnes) for the replacement and upsizing of sewer mains and pipes up to 1,000mm. Website: www.tt-uk.com

INSITUFORM WINS TWO HALLSDALE-POWELL UTILITY DISTRICT SEWER REHABILITATION CONTRACTS

Insituform Technologies, Inc. recently announced that it has been awarded two contracts with a combined value of US\$6.5 million from the Hallsdale-Powell Utility District in Knoxville, Tennessee, USA. These contracts mark the first time that Insituform will work with the District.

Hallsdale-Powell will fund the projects with a state revolving fund loan secured through the American Recovery and Reinvestment Act (ARRA), Hallsdale-Powell had planned to complete this project in a series of contracts to be awarded over the next three years. However, by accessing the additional funds available through the ARRA, the District will be able to upgrade its system more quickly, significantly reducing infiltration into its existing system. Insituform will rehabilitate approximately 40 km (25 miles) of sewer pipelines with its core cured-in-place pipe (CIPP) technology. The project is expected to be completed by June 2011.

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Bobby O'Dell, Insituform's General Manager-Central Region, said: "Insituform has been the leader in CIPP technology for nearly 40 years. We look forward to utilising our proven processes and project management experience to assist the Hallsdale-Powell Utility District in upgrading its sewer system."

Insituform will partner with Hallsdale-Powell Utility District as well as the engineering firm, Jordon Jones and Goulding, to inform the residents of the Knoxville area about the project and the benefits of the rehabilitation efforts.

"It is clear Hallsdale-Powell Utility District truly understands the importance of quality infrastructure rehabilitation and how it can dramatically help improve the daily life of communities, neighbourhoods and residents," said David Reece, regional manager at Jordan, Jones and Goulding. "JJG is pleased to work with the talented professionals at Insituform on this project and we are eager to assist all of the people living and working along the 40 km (25 miles) of wastewater pipelines that are to be rehabilitated."

Insituform's crew based in Knoxville will begin work on this project in March 2010. A minority-owned business will provide the open-cut work and pipe bursting for a portion of the project. Additional contractors from Tennessee will provide the required manhole rehabilitation, lateral rehabilitation, pipe bursting and closed-circuit television inspection services as subcontractors to Insituform. Website: www.insituform.com

NEW SALES DIRECTOR FOR ELECTRO-SERVICES LTD

Electro-Services Ltd has announced the return of Gary Markevics as Sales Director. Gary has over 40 years experience in the construction plant, marine, recycling and rail industry and has held a number of senior positions in several UK and US companies to include JCB, Vermeer and Barford.

Gary will be working closely with the sales team and will be responsible for identifying and developing new opportunities.

Commenting on the appointment, Managing Director, Chris James said, "We are pleased to add this depth of experience and industry knowledge to the team at this crucial phase of the company's growth. Gary brings a powerful combination of relevant experience, the appropriate skill-set and the personal qualities required to operate successfully in a fast-growing and highly resourceful business environment. We are confident he will make a significant contribution to the company's ambitions." Website: www.eshire.com



Gary Markevics

TRACTO-TECHNIK AT BAUMA

Occupying a total area of 1,300 m² at the forthcoming BAUMA in Munich, between 19 and 25 April, 2010, intelligent new developments and the latest technologies for the trenchless installation and renewal of underground pipe installations will be presented and demonstrated by Tracto-Technik.

Now industrially produced, HDPE pipe lengths can be pulled in using manholes at the jobsite in complete installation lengths or in smaller pieces, cold formed and preserving the material. This is made possible by a newly developed device, which gives the circular pipe cross-section an oval form for the transportation from the surface through the manhole at the start of the installation process. This technique provides a minimally invasive renewal method known as the TIP (Tight In Pipe) method, with which it is now possible to carry out pipe renewals with ready-made pipe lengths via manholes from 1 m diameter upwards with no need for large installation pits.

For the renewal of sewage pipes up to ND 300, without any civil engineering whatsoever, Tracto-Technik already offers the well-known Burstfix system. With a tensile strength of up to 200 kN short pipes are connected tightly together in the installation manhole. For larger diameters and any



Long pipe installation using the Burstform technique through an existing manhole.

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INDUSTRY, COMPANY AND INSTITUTION NEWS AND RESEARCH



lengths of single pipe made of stoneware, plastic etc there are now two Burstfix variations. The tensioning devices each offer tensile strengths of 40 kN for diameter ranges from 450 to 600 mm or of 800 kN for the larger calibre single pipes of 700 to 1,200 mm diameter. In all tight working areas, where only the application of compact machines and installation pits are possible, the tested TT pulling rig and the Quick-Log rods show their advantages with the Burstfix 400 or 800.

Also on display will be the one of the world's market leading impact hammers which will, for the first time, show visitors a completely new generation of the Grundomat soil displacement hammer range. One distinctive characteristic of the new Grundomat-N is the unusual head form, which is described as a crown head. This head is unique and offers even higher penetration forces and an unusually precise target accuracy. The new triple gear control stud has a reverse mode and 2 forward modes with various striking frequencies, depending on the type of soil, an absolute novelty and ground breaking new development for this technology. Furthermore, the new Grundomat-N has become more service friendly. If, for example, a seal ring or the pull sleeve needs attaching, then the assembly can be carried out directly on site. The trick is a tensioning element which spreads the threading like a dowel and this way fixes the casing end to the casing. The front casing, end cone or pull sleeve are no longer glued in place, therefore no waiting for adhesive to dry out. While the new design Grundomat is to be launched on the German market in 2010, internationally it will be introduced after a further testing phase, with the full range being available in 2011.



The Grundomat-N crown head configuration.

Tracto-Technik customers have been strongly involved with the design of the new Grundodrill XP-series, with requests and suggestions. The result is a comparatively silent, simple to operate, but still very powerful boring rig. This was achieved by adoption of self setting power regulation of the drive engine for optimum thrust and rotation on the boring rig and also through the automatic setting of the rinsing pressure. The percussive hammer, which is typical for the Grundodrill, increases the possibility to apply the machine in stony soils. With the dynamic percussive hammer (1,550 strokes/min) it is possible to penetrate through weathered rock. The Grundodrill XP is supported by a twin-tank mixing unit, Type MA 010, each with a 4,000 l capacity, which is operated by a 10.9 kW Hatz Diesel engine.

Besides the optimisation of the performance capacity the rig development focussed on improving working and operational safety. For example, the operator can move freely around the rig with the transmission remote control, without any connection cable to hinder the operation. The manual hydraulics can still be operated should the steering technology break down for any reason, so that for example a pulling in process can be completed. The heated operator cabin can be swivelled in 5 steps and ensures a complete overview and complete visual control over the complete bore process and comes equipped with an ergonomic operator seat. The bore functions are operated with joysticks. The automated sequences of the HDD bore rig are set to optimum performance and regulated, so that the machine is protected from damage thereby increasing the service life.



By storing all relevant parameters of the bore and pipe installation processes, development and implementation in operating and software programmes, as well as fully automatic recording, a significant contribution has been made to provide an operator-friendly and therefore a accurate and damage-free boring processes.

The Tracto-Technik exhibition can be found at Stand 1208 in the open-air exhibition arena. Website: www.tracto-technik.de

The new Grundodrill 15XP.

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TRENCHLESS INSTALLATION OF A NEW HOUSE CONNECTION PIPE

The waste water connection pipe of a family in Wildeshausen, Germany when inspected indicated some fracture damage, which was causing it to block regularly which meant that it constantly needing to be jetted clean. For this reason a decision was made to install a new pipe. The problem was that only 2 years previously the road had been renewed and a repair or new installation for the house connection pipe using the open trenching methods would have split the supporting layer of tarmac potentially causing subsequent road subsidence.



The components of the Grundobore 200 S make installation into the existing main pipe manhole simple.

Therefore it was decided that the best option was to install a new house connection from a nearby main pipe manhole to the house connection manhole some 18 m away using the trenchless pipe installation technology. This proved to be a perfect task tailored to the steerable Grundobore 200 S pilot auger bore unit manufactured by TRACTO-TECHNIK of Lennestadt, Germany). The advantage of this type of machine is the fact that it can work inside a shaft/manhole with a diameter of only 1 m.

Adjacent to the existing wastewater pipeline there was a rainwater pipe running at the same depth. The newly planned bore was therefore set inside the 4 m deep main pipe manhole at 3 m. The new pipe now runs with a gradient of 5% between the ground level and the house connection pipe. The bore path crosses beneath service pipes situated in the nearby pavement area and the foundations for the premises wall. The new pipe ends at a specially excavated pit (dimensions L1.20 m x W1.20 m x H2.50 m), which also helped to facilitate and make the expansion and installation work, as well as the connection to the house connection pipe much easier. It would have also been possible to connect directly to the house connection manhole.

Contractor Huneke of Leer, Germany was awarded the contract to complete the work. The steerable bore was carried out from the main pipe shaft up to the pit ahead of the main connection manhole. The machine used was the Grundobore 200 which consists of 2 components including the "thrust frame" and "Bore drive". This makes installation and alignment inside the manhole very easy to carry out. For this special task at a depth of approximately 3.30 m a platform was installed in the manhole. A type TT B20 hydraulic power unit was available to drive the Grundobore 200 S.

Initially, a core bore with a diameter of 250 mm was carried out into the manhole wall using the Grundobore 200 S. This process took around 10 minutes to complete. After changing the bore tools, the steering head with an integrated sonde was put into action. The bore grade of 5% had to be maintained at the same time. Inclination, depth, position, direction and roll angle of the bore head

were constantly checked and, whenever necessary, the direction or inclination deviations were evened out accordingly using the steering capability. The pilot bore, at an 82.5 mm diameter, was completed in exactly 1 hour.

Following the initial installation process the pilot bore was expanded in the opposite direction with a winged bore head.

The spoils produced during this bore were conveyed out of the bore hole, protected by the 170 mm diameter

Expanding the pilot bore.

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retrievable pipes, with a spiral conveyer back towards the excavated pit.

Installing the final wastewater pipe.

After this step had been completed the PP-HM 170 mm diameter x 12 mm wall thickness Schöngen protection pipes, each with an effective length of 450 mm, were pushed in from the main pipe manhole end and connected with sockets in both manholes and sealed off accordingly.

Once again a trenchless method has shown how a house connection can be completed without any comprehensive civil engineering work and with very minimal interference to the local surroundings. Website: www.tracto-technik.de



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HORIZONTAL DIRECTIONAL DRILLING

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NEW ASTEC UNDERGROUND DD-4045 HORIZONTAL DIRECTIONAL DRILL

The Astec Earth Pro DD-4045 is the latest addition to the Astec Underground range of horizontal directional drills marketed in the UK through TA Drilling.

This new model boasts a powerful 18.14 t (40,000lb) thrust/pullback with 6,101Nm (4,500ft-lb) of rotary torque. It has a two-speed carriage which reduces cycle times when adding and removing pipes from the spindle at 42.67 m/min (140 ft/min) maximum. It is powered by a Cummins® QSB4.5 turbocharged Tier 3 Stage IIIA diesel and charge air-cooled engine which produces 116 kW (156 hp) and comes with a Quiet-Pak® sound reduction system as standard.



The new Astec Underground DD-4045 horizontal directional drilling rig.

The patented ES!LOK® exit-side lockout system works independently from locating equipment, providing flexibility for the drilling crew. A Zap Alert System comes as standard and each drill comes with safety mounts and an electrical grounding switch at the drillers console for added safety.

Operators will like the multi-function colour LCD display that provides a crystal clear view of the driller's performance and functions even in bright sunlight.

The display monitors all systems and functions, including many that competitive machines do not. The dual joystick control system also helps to reduce fatigue while increasing efficiency. Another aid to reducing operator fatigue on long bores and pullback operations is the Cruise Control feature. This feature continually senses the loads and adjusts the rotary speed, rotary torque and pull back speed depending on the ground conditions.

The DD-4045 features a dual-cam style pipe loader with row selection assist making the DD4045's operating width an industry leading 2.15 m. Total pipe capacity is 158.5 m in removable pipe baskets.

The independently adjustable dual rear outriggers provide stability on uneven ground or slopes and the forward-mounted track drive motors provide greater traction in a wide range of soil conditions.

The DD-4045 also works seamlessly with the Astec Hard Rock System Air Hammers. The operator can control the air hammer functions directly from the onboard colour LCD.

The DD-4045, as with all Astec Earthpro Horizontal Drills, comes standard with 'Astec's 357 Protection Plan'. New machines carry a 3-year warranty on workmanship, 5-year warranty on the engine and a 7-year warranty on the rack at no additional cost.

The serious security of the Astec 357 Protection Plan gives customer complete peace of mind.. This commitment to our customers is backed up by the proven product support and service that T.A. Drilling is well known for.

This new addition to the Astec line of Horizontal Directional Drills adds to the extensive range of trenchless products offered by T.A. Drilling which include: Astec Underground Directional Drills from 6 t to 40 t capacity; Down Hole Tooling from Melfred Borzall; Drill Rods; Drilling Fluids; Digitrak; Sharewell – Hard Rock Tooling; Railhead Underground Products; Scandinavian No Dig Pipe Bursters; and Essig Moles.

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STATIC PIPEBURSTING IN GOTHENBURG

The Gothenburg Water Company in Sweden has used static pipebursting for the past decade, for the rehabilitation of existing water pipes. Leif Isaksson, a project manager with the Gothenburg Water Company is one of the company's engineers that has utilised pipebursting over the past ten years, and still regards it as an unrivalled pipe rehabilitation technique. He explained: "Replacing water mains that are 40 to 50 and sometimes more than 100 years old in Gothenburg city centre was a challenge, with the density of traffic, the other existing parallel utility installations next to the water mains in the ground, and the general disturbance to the public."

In 1998, a search for suitable equipment ended with the purchase of the T40 static pipe burster system from manufacturer, Scandinavian No-Dig Centre of Denmark (SNDC). This model was chosen because of its small 250 mm wide footprint and its round, threaded steel rods with the machine's 'positive grip' rod handling system.

In 2006, the T40 machine had achieved more than 600 hours of operation, but the package from the 1998 purchase was completely original. At that time the company traded the original T40 pulling rig for a new 2006 model - the T45 pipe burster. The rest of the old 1998 package was kept including the power pack and all the accessories, including the steel rod system, all of which were still flawless.

The T45 pulling rig proved to be an even better model, which to date has more than 200 hours of operation on the clock.

According to Leif Isaksson: "My guess is that, since we started using this equipment in 1998, we have accomplished the replacement of more than 35,000 m of worn out water pipes of up to 315 mm diameter across Gothenburg city centre using the very same equipment and accessories. Today, it is one of our highest profit-generating businesses, mostly because there is close to no operational costs associated with this brand."

In addition to the T45 pipe burster operating within Gothenburg, the company also decided to invest in the larger T125 pipe burster in 2005. Due to the scale of work mounting up, the workgroup added the mid-range T85 pipe burster machine just 2 years later.

The three machines can now cover the majority of the pipe replacement requirements in Gothenburg, handling all operations from just 40 mm diameter existing pipes, up to 500 mm diameter.

Given the many years of pipework operations completed by the city authorities, the Gothenburg Water Board is now listed as one of the most experienced state-owned companies in this sector. Projects carried out vary from the lightest of PVC, through standard Cast Iron and Steel, to the toughest of Swedish Ductile Iron pipes.

IN PRACTICE

The company works using six bursting teams, operating the machines in shifts. All teams are highly professional and have extensive experience in static pipebursting.

In January 2010 Gothenburg Water Board invested in additional equipment with the addition of a T175 pipe burster, again from manufacturer SNDC. This purchase was added to the existing machine programme and has enabled the company to take on even bigger and more complicated projects.

The very first of these was Gothenburg-based and comprised works from Nya Allén in Gothenburg City Centre over approximately 3 km, reaching as far as the Ullevi stadium. The



The Scandinavian No-Dig Centre T175 pipe burster recently purchased by Gothenburg Water Board.

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boulevard beneath which the water main being replaced runs spreads over a total of 6 traffic lanes and is a major carriageway for the traffic flows in the city centre. Thousands of cars use this busy street every day.

The water main in question was one of the city's transmission water lines and runs directly under the Nya Allén Boulevard at between 2.5 and 3.0 m depth. The 120 years old cast iron pipe line stretches the entire 3,000 m from one end of the boulevard to the other.

The project has been tabled for completion for quite some time, but not until the water board announced its latest purchase of the T175 machine, was it decided to commence the project. Initially 1,000 m of main was to be replaced with a new 560 mm diameter HDPE pipe, as soon as possible. If the city approved the quality of this work, an additional 2,000 m would be released for replacement.

The first part of the 1,000 m section ran along the middle of the Nya Allén, where the traffic is worst. On a snowy February morning in 2010, the T175 team was set to replace the first 130 m.

The T175 pipe burster, with its 175 t pullback power, is designed to replace existing pipes of up to 710 mm diameter. With a footprint of 1.8 m length and 0.7 m width, the unit takes up a minimum of space in congested city areas. One of the major reasons for the Water Board choosing this unit was the unique steel rod safety system using 'Positive Grip' technique. This unique jaw-system prevents the steel rods from flying back out of the pulling unit, in case of a material failure during pipe bursting and pulling operation.

With its latest investment in hardware and the now full range of static pipebursting machinery, the Gothenburg Water Board has taken another important step towards being well-equipped for the new decade.

Setting the standard as high as possible when it comes to modern equipment and safety, Gothenburg Water Board has become a front-runner in the use of trenchless equipment, and is fast becoming considered one of the most experienced users of static pipebursting equipment. SNDC supplies static pipebursting machinery with a pulling capacities from 45 up to 400 t. Website: www.tadrilling.co.uk



A typical pipe bursting head as used on the recent Gothenburg replacement project.



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Manufacturer and contractor for Gravity & Pressure & Lateral Pipe Renovation & repair (inc CIPP, Close Fit PE & Localised Lining), GRP Lining, Surveying & Cleaning, Manhole Construction & Renovation, Pipe bursting and Guided Auger Boring.



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PIPE COIL TRAILERS USED IN SUPPORT OF OPEN DAY

U Mole (a division of Vp plc, operating within Groundforce) was recently invited to provide support equipment to an Open Day being held at the World Headquarters of the JCB organisation. The event, which was addressed by the then Thames Water CEO David Owens, focussed on the Utilities sector.

Approximately 500 visitors attended the event over the two days including major players in the service provision for Gas, Water, Electricity and IT networks.

As one of several suppliers that loaned equipment to JCB for the Open Days, U Mole provided a pipe coil trailer which was needed for an exercise which showed the safe transportation and deployment of a 180 mm diameter coiled gas pipe, which was loaned by Radius Systems. It is interesting to note that there is over 250 kg of inert energy stored in the coiled reel which can be difficult to manage once the pipe coil ties have been cut and the pipe free from restraint



Demonstrating the unloading of a CHUTE ROLLER V-Series Pipe Coil Trailer using JCB equipment.

on the trailer. The pipe and coil trailer was used as part of a simulated construction site and compound on which were established 'live' demonstrations of some 30 pieces of specialist equipment pertinent to the Utility sector. These included the key JCB Utility package demonstrated on a JCB 8018X in 'hi-vis' yellow together with a 2CX Street master, 2CX Airmaster, Teletruk and other units. Also present were suppliers of recycling and concreting systems, as well as one of JCB's new pipe grab machine attachments for which the pipe and coil trailer were utilised.

The object of this demonstration was to grab the pipe and pull it from the reel positioning it safely into a trench ready for connection without the need for a worker to enter the trench and physically manhandle it using the machine bucket.

The pipe coil trailer provided by U Mole was a CHUTE ROLLER V-series type with integrated re-rounder, loading winch, pipe end clamp and towing head, which meet current GIS standards.

The demonstration was a complete success with JCB commenting: 'The demonstration of the new JCB pipe grab equipment was all the more impressive to delegates given that the pipe coil and trailer were available to us. Seeing these systems work 'live' can only help to get across the advantages of such innovative advances in the safe handling of pipe systems aimed at the Utility industry. We can only thank Radius and U Mole for their support of our Open Day, without their equipment it would not have been as effective and 'life-like' as it was.'

For U Mole Russell Fairhurst, Managing Director U Mole (A division of Vp plc) said: "We were more than happy to support JCB in its Open Day with the support equipment necessary for their 'live' demonstrations. Showing how effective pipe handling system can be and in particular how much safer they can make worksites, by minimising the need for personnel intervention, has long been an objective of the design effort we place into our equipment. Working together with companies such as JCB has only helped us to maintain these efforts in the knowledge that such developments are not only needed by the industry but also welcomed by the workforces involved."



A U Mole supplied CHUTE ROLLER V-series Pipe Coil Trailer on site at the JCB Open Day.

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Independent pipeline renovation consultant and UK representative for [Saertex](#), [KOB](#), [MC Chemicals](#) and [Terra](#)



[VMT GmbH](#)

Supplier of TBM, Microtunnel, Pipe Jacking and Tunnel excavation Navigation & Guidance systems & Services.



[ER Systems](#)

Suppliers of Drainage Lining Materials, Equipment and Technical Support

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EQUIPMENT RANGE

U Mole is the approved UK distributor for Earth Tool equipment and offers the company's full range of products for trenchless installation and pipeline replacement for either sale or hire. These include: Active and standard head HAMMERHEAD™ impact moles (earth piercing tools), HAMMERHEAD™ ramming hammers, other HYDROBURST™ rod-based, hydraulic pipe bursting systems and the PORTABURST™ cable-based, hydraulic pipe burster range.

The company is also the representative for The Robbins Company in respect of the Robbins SBU (Small Boring Unit) product line, including provision of all spares and consumables within the SBU range. The territory across which U Mole acts in this capacity includes: France, Belgium, Holland, Denmark, Sweden, Norway, UK and Eire.

U Mole also supplies a full and extensive range of trenchless and limited dig equipment including: MTS/Vac-Tron vacuum excavation systems, coring equipment for keyhole technology for use in the small footprint excavation of utilities and services with minimum disruption to the local area and minimum damage to the buried service. Also available are Pipe to Site coiled pipe trailers, Acuster plastic pipe fusion systems, Rotair compressors, Reed Tools and a complete range of accessories such as pipe Cobra flexible rodding, towing heads, cable socks, pipe pigs, swivels, breakaway connectors. Website: www.umole.co.uk

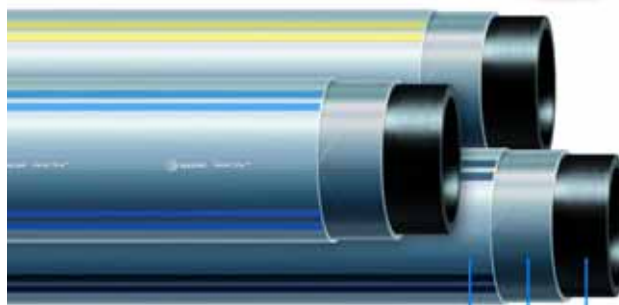
HEXELONE® HIGH PRESSURE PE PIPES CERTIFICATION

The egeplast HexelOne® Raised Pressure system has been certified as a complete system by the TÜV SÜD for use where there are increased operating pressures.

The new egeplast HexelOne® pipe is a self-reinforced high pressure pipe, a mono composite made solely from polyethylene (PE). This reinforcement makes new areas of application possible in the high pressure area, in other words operating pressures above applications previously covered using PE pipes. The reason is that the pressure resistance it exhibits is double that compared with earlier PE pipes. The homogeneous material in the PE high pressure pipe has three functional layers. These facilitate excellent medium durability due to PE 100-RC in the inner layer, enhanced pressure resistance due to a medium layer made of stretched PE 100 and a tried and tested weld property in compliance with DVS due to the outer layer made of PE 100. The dimensions of the pipe correspond to valid European standards.

The certification of the HexelOne® Raised Pressure system for the dimension 110 x 10.0 mm includes the pipe and a complete system with mechanical and welded connections and transition of materials to traditional materials. The first HexelOne projects have been completed successfully with applications including both trenched installations and trenchless relining

egeplast is one of the leading manufacturers of PE pressure pipes in Europe. The product range covers the entire underground piping infrastructure: pipes for drinking water, wastewater, gas and data. egeplast is a specialist in the development and production of pipes for trenchless installation, on request with barrier and leak locating function. Website: www.egeplast.eu



- 1: Excellent medium durability due to PE 100-RC in the inner layer
- 2: Enhanced pressure resistance due to medium layer made of stretched PE 100
- 3: Tried and tested weld property in compliance with DVS due to outer layer made of PE 100

The egeplast HexelOne® Raised Pressure system has been certified by the TÜV.

MCELROY INTRODUCES MEGAMC® PIPE STANDS

Most pipelining job sites require a mix of heavy machinery to manoeuvre pipes into place. McElroy's new MegaMc® Pipe Stands are self-contained, gasoline (petrol)-powered pipe stands that alleviate the need for a piece of heavy machinery to hold the pipe in place. Two models of MegaMc® Pipe Stands are available. A large 900 to 1,600 mm (36 to 65 in) pipe diameter model

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accommodates pipes of up to 7,257 kg (16,000 lb), while a smaller 225 to 900 mm (8 to 36 in) pipe diameter model handles pipe up to 4,082 kg (9,000 lb).

Besides the productivity gained from allowing heavy machinery to be used elsewhere on the site, the MegaMc Pipe Stands offer 610 mm (24 in) of lateral movement, as well as 865 mm (34 in) of vertical adjustability. This freedom of movement allows the operator to manoeuvre the stick of pipe to the height of a thermoplastic pipe fusion machine.

“We believe the MegaMc Pipe Stands will offer great benefits on medium and large diameter pipe fusion job sites,” said Chip McElroy, president and chief executive officer of McElroy. “The new pipe stands represent our dedication to creating modular productivity equipment that helps contractors do more with less.”

The MegaMc Pipe Stands are gasoline (petrol)-powered but will burn through fuel. In fact, the units are designed to hold a set height after the operator turns the hydraulic power unit off. Since the unit is self-contained, no hydraulic hoses will be running across the ground of the job site. Rugged rollers with low-friction pillow block bearings allow the pipe to move easily. Even with a wide stable base, the pipe stands can be stacked for storage or shipping and are moveable with a forklift or crane. Website: www.mcelroy.com



One of the new MegaMc® Pipe Stands operating on site.



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UKSTT NEWSLETTER



Brought to UKSTT
Members by:



Come & Join us for the **16TH UKSTT ANNUAL DINNER & AWARDS CEREMONY**

**Friday 23rd April 2010
Holiday Inn, Birmingham City Centre**

The United Kingdom Society for Trenchless Technology will be holding it's Annual Dinner and Awards Ceremony at the Holiday Inn, Birmingham on **Friday 23rd April 2010**.

This event has been growing in popularity over recent years and last year attracted over 175 members and guests from across the UK and over 45 entries across all award categories. The evening, which includes a first class meal at a quality venue, is a time to recognise the outstanding contributions made by organisations and individuals in the development of Trenchless Technology in 2009.



Following the success of last year's awards we have again secured the services of the naturalist, author and broadcaster Chris Packham.

Chris will present the seven prestigious awards covering renovation, new installation, small project, product innovation and young engineer. Once the awards ceremony and the dinner are completed, entertainment will be provided with the bar being available until 2am.

Sponsorship Opportunities: Current sponsors include **South West Water, Bournemouth & West Hampshire Water, Drilline Products & TT-UK Ltd**
Details on how to sponsor the event are below.

Tickets

Tickets for the dinner are £69 each, and can be reserved by completing the booking form and sending this with the full remittance, cheques payable to UKSTT to:

Val Chamberlain, UKSTT, 38 Holly Walk, Leamington Spa, Warwickshire, CV32 4LY
or on the telephone on 01926-330935 by Credit Card or Switch.
Email enquiries to admin@ukstt.org.uk

Tables of 10 or 12 will be reserved on a first come, first served basis. Tickets will be forwarded as soon as possible after payment has been received.

Sponsorship Opportunities

Various sponsorship packages are still open to UKSTT members which will secure the Sponsors publicity at the event and press coverage of the award presentations.

Current sponsors include **South West Water, Bournemouth & West Hampshire Water, Drilline Products & TT-UK Ltd**

For details contact **Claire Gowdy** at claire.gowdy@nwl.co.uk or on 0191-301 6014.

Awards Categories

The deadline for submission to the Awards is **26th February 2010**. Entrants should complete the entry form with up to 2 pages or 1500 words to support their application. The categories are:

- **Renovation - Large >£250k or Small <£250k**
- **New Installation - Large >£250k or Small <£250k**
- **Small Project - <£50k**
- **Product Innovation**
- **Young Engineer - <30yrs**

Judges will give particular credit to projects that readily illustrate the benefits of Trenchless Technology and further the aims of the UKSTT.



For further information and an entry form contact **Val Chamberlain** at
admin@ukstt.org.uk or on **01926 330935**



UKSTT NEWSLETTER



Brought to UKSTT
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UKSTT WORKING WITH BRUNEL UNIVERSITY STUDENTS

As part of its university annual introductory undergraduate lecture programme and following last year's successful introductory lecture to undergraduates at Brunel University, on the options, benefits and systems, to install, repair, or replace underground network apparatus using trenchless systems and techniques, we returned in February to commence a three part programme of lectures and presentations to expand students' knowledge and awareness of the wider range of considerations required to be undertaken when designing pipelines other than the immediate aspect of hydraulics.

All has been interlaced with a trenchless theme and anecdotal experience, case studies, and footage and supporting images and information.

The team is three handed with Sandra Rolfe-Dickinson from Montgomery Watson Haza (MWH) and John De Rosa from Subterra joining with Peter Crouch from UKSTT. The programme has required the development of a suite of interlocked lectures and material and UKSTT is particularly grateful for Sandra and John's support.

These lectures have also been supplemented with a repeat of last year's updated introductory trenchless lecture to this year's second year students.

UKSTT is also supporting the University's industry panel in helping to develop industry relevant courses that attract companies to offer student placements into industry during the their three or four year degree 'sandwich' course.

In addition to lecturing at Brunel, UKSTT is also lecturing throughout the UK. These include lectures at Teesside where Steve Kent and Brian Syms presented a lecture to over forty undergraduates and Cambridge University where Dec Downey chairman of ISTT was kindly available to help out with a lecture to twenty five undergraduates. We have outstanding lectures booked at Brunel as well as Newcastle and feedback forms are being analysed on highlight potential improvements for next year.

These lectures are supported generously by the time and effort council members give and they are all to be applauded in their support for the society and its work.



Sandra Rolfe-Dickinson of Montgomery Watson Haza (MWH) and John De Rosa of Subterra joining with Peter Crouch of UKSTT at Brunel University.

UKSTT SUPPORTS PRIVATE SEWERS FORUM

The Private Sewers Forum met in February to review and discuss editorial submissions and position statements from members.

EU Skills tabled two handouts at the meeting, a position statement regarding the scheme and a table showing individual job roles – a framework for Safety, Health and Environmental Awareness (SHEA).

Due to the wide range of evidence required for registration the main concern has been to try to simplify the process, particularly in view of EU Skills not being able to control the differing expiry dates of current schemes.

EU Skills is now in a position to launch the Drainage Operative Registration Scheme but water companies are unsure as to how they are going to undertake the management of transferred private drains.

The group advocated further discussion with some members unable to attend but actions or next steps are likely to include the development of a Health and Environmental Awareness (SHEA) programme for Drainage Operatives based on the approach provided for Water Network Operatives. This will provide a solution to the CSCS issue. They will also consider the development of the skills element of the drainage registration, despite lacking a clear direction by the water companies, and the encouragement by members of the forum for the support of SHEA and Skills registration.

Val Gibbons shared editorial recently submitted to the Water & Waste Management Journal and copied members into the open letter by the NSA chairman, Phil Reaney.

The current draft timetable looks like this:

March 2010	Draft Regulations for Consultation
October 2010	Transfer of secondary legislation
April 2011	Mandatory New Build Standard
April 2012	Overnight transfer of Private Sewers

Next Forum meeting is scheduled for Wednesday 12 May 2010.

For more information go to: www.ukstt.org.uk

EVENTS AND MEETINGS



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Mark your calendars for Akkerman's Demonstration Days and Manufacturing Open House between September 29 and 30, 2010.

If you are a potential customer, current customer or just curious about Akkerman products, this event is for you! We have scheduled two days of equipment demonstrations, guided tours with knowledgeable staff and an array of off-site activities. In order to make the most of the experience, explore customer needs and address all questions, daytime events will be organised in small group format. Guests will enjoy complimentary meals, local ground transportation and accommodation. The schedule of events and invitation to register will be forthcoming soon. Enquires should be directed to landerson@akkerman.com

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EVENTS AND MEETINGS



2010

April 1

No-Dig Road Show - Belfast, UK

Details from: www.westrade.co.uk

April 19-25

BAUMA 2010 - Munich, Germany

Details from: www.bauma.de

April 23

UKSTT Awards Ceremony - Birmingham, UK

Details from: www.ukstt.org.uk

April 27-29

No-Dig Poland 2010 - Kielce, Poland

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

May 2-7

NASTT No-Dig Show - Chicago, USA

Details from: www.nodigshow.com

May 4-6

IFAT China - Shanghai

Details from: www.ifat-china.com

June 1-4

International Trade Fair and Conference for Trenchless Technologies - Moscow, Russia

Details from: www.nodig-moscow.ru

July 21-22

IV Brazilian Congress for Trenchless Technology 2010 - No Dig Latin American - São Paulo, Brazil

Details from: www.abratt.org.br/nodig2010

September 13-17

IFAT - Munich, Germany

Details from: www.ifat.de/en/facts

September 27-28

4th European Water & Wastewater Management Conference - Leeds, UK

Details from: www.ewwmconference.com

October 5-7

No-Dig Live 2010 - Coventry, UK

Details from: www.nodiglive.co.uk

November 8-10

International No-Dig 2010 - Singapore

Details from: www.nodigsingapore.com

November 23-26

Bauma China 2010 - Shanghai, China

Details from: www.bauma-china.com

2011

May 2-5

International No-Dig 2011 - Berlin, Germany

Details from: www.nodigberlin2011.com

2012

May 14-16

International No Dig Show 2012 - São Paulo, Brazil

Details from: www.nodigshow2012.com (available soon)

If you have an event, course or meeting scheduled for 2009 or 2010 and would like to add it to this listing please forward details to: ian@nodigmedia.co.uk