



June 2009

Awards Dinner

On 24 April the United Kingdom Society for Trenchless Technology held its 15th Annual Dinner & Awards Ceremony at the Holiday Inn, Birmingham. Attended by around 175 guests from a national array of companies and trenchless organisations the evening was conducted by toastmaster, Norman Brown, and compared once again by the well known environmentalist, presenter, broadcaster, photographer & author, Chris Packham.

As part of the evening's 'entertainment' Steve Kent, the current UKSTT national chairman, and owner and manager of Pipe Equipment Specialists Ltd, brought guests up to date on the workings and progress achieved over the past year by UKSTT including:

- No-Dig Live 2008 in September
- promotion trenchless technology to the uninitiated, e.g. HAUC conferences, Universities
- involvement in the WRAP (Waste and Resources Action Programme)
- responses to consultative documents
- Council representation on a number of national committees
- liaison between HSE and the HDD manufactures and suppliers regarding HSE investigation into the issue of unguarded rotating parts on directional drilling rigs
- dealing with technical enquires

Looking to the future, Steve highlighted some of the areas of interest, including:

- working with SBWWI, EUS and Water UK to promote a programme of informative seminars later this year regarding the Private Sewer debate
- continuation of the Patron initiative
- Roadshows are being planned for late 2009 / early 2010
- canvassing for further presentations to Universities



Whilst attendance numbers for the Dinner this year were down a little on 2008, Steve did comment that membership has not been adversely affected by the current economic climate with membership subscription, which funds the organisation's activities, being slightly up on this time last year.

Presenting the Awards for the sixth consecutive year, Chris Packham and his friends, the TenRec, entertained the diners with his usual stylish opening address, revealing much about the life of his 'companions' for the evening. The animal was provided by Paradise Wildlife Park, Broxbourne, Hertfordshire. Chris then gave an overview of the short-listed award finalists. As in previous years, awards were given for 6 categories.



AWARD WINNERS

The number of 2009 event award entries were higher than ever before, indicating that even in these economically challenging times, Trenchless Technology continues to make advances. The winners & highly commended can be seen in the table overleaf:



Chairman's Guests, Patrons and VIPs

United Kingdom Society for Trenchless Technology

CATEGORY	SPONSOR	WINNER	HIGHLY COMMENDED
New Installation – Large Project	South West Water	Barhale, Severn Trent & Grontmij : Albrighton FWS Flood Alleviation	Saint Gobain : Tyneside North Circular Main Replacement Projects
New Installation – Small Project	Barhale Bournemouth & West Hants Water	Farrans (Construction) Ltd : Moira Trunk Main Specialist Crossing	Balfour Beatty Utility Solutions : Rock by Name, Rock by Nature Land & Marine Project Engineering : Dunstable Cricket Club
Renovation – Large Project	Adien McElroy	The Waterflow Group : Banbury Station – Sewers Under Railways	Severn Trent Water : Matlock & Matlock Bath Rising Mains United Utilities : Houghton Green – Winwick Water Pumping Main
Renovation – Small Project	DynoRod Severn Trent	Lanes Group plc : Conway Bridge	Adien : Dublin Water Mains U Mole : Replacing Temperature affected pipe using Pipebursting keeps Brewery Running
Small Scheme	Wessex Water	Hermes Technologie / Habilitas Solutions : Rehabilitating 25m deep Victorian Shaft	DynoRod : Croft Street, Hebben Bridge UV Lining & Multiple Top Hat Installation U Mole : UK Water Company expands Pipe Bursting Technology Experience for Operatives
Product Innovation	South West Water	DynRod : Top Hat Innovation – 100mm diameter at acute angles (30 deg)	The Waterflow Group : Banbury Station – Sewers Under Railways TT-UK : Grundoram to the Rescue in long undersea HDD Recovery Operation
Young Engineer	Wessex Water	Jonathan Gisbourne, Barhale	Leanne Ford, Wessex Water James Kitching, Wessex Water Laurence Turner, Aqualiner

The event was also sponsored by Land & Marine Project Engineering Ltd, May Gurney, Pipe Equipment Specialists Ltd, TT-UK & U Mole.



Award winners

In common with other similar events, UKSTT also operates a charity draw during its Annual Dinner event. This year, in keeping with the policy of choosing a UK based charity, the chairman's choice was Shelter – the housing and homelessness charity. As well as raising money, the collection also offers a prize, this year the Draw prize was a top of the range iPod, kindly donated by C J Kelly and Brawoliner. The event raised a total of £1,175.00 with the iPod being won by Steve Andrews of Adien.

Following the Award Presentations, the after-dinner entertainment was provided by Siren, an all female string quartet. The evening was rounded off by the usual visit to the bar & a major networking opportunity for the gathered guests. The 2010 Annual Dinner and Awards ceremony will again take place at the Holiday Inn, Birmingham on 23 April. Details will be available from the UKSTT offices shortly.

Don't forget to start thinking about which entries you will be making for next year's Awards. <

Minimising Waste free seminar programme draws to a close

The Waste Reduction Action Programme (WRAP), through UKSTT members Scott Wilson, has sponsored UKSTT technical secretary, Peter Crouch, to take part in a national series of free seminars focused on Waste Reduction and recycling. Peter was able to encourage delegates to reduce waste either by not creating it in the first place or using minimum dig techniques to achieve the required solutions of projects. He also took the opportunity to share some more recent developments in the sector.

Trenchless systems and techniques are often overlooked, or used to get out of problems, rather than as a first option, and Peter stressed the importance of giving engineers planning time in order to explore



options, seek guidance and experienced advice, at an early stage to ensure the most economic macro and micro managed project was achieved.

Since 2001, WRAP has been helping the UK to meet European Landfill Directive targets. WRAP works in many sectors, with construction being a major focus due to the quantities of construction, demolition and excavation (CD&E) Waste being produced.

WRAP has developed Utility Industry documentation to help the utility sector reduce the quantity of trench arisings being land-filled by using materials and resources more efficiently.

The seminars complemented the Good Practice Guide, part of their Utility Industry Agreement suite of documents to promote Materials Resource Efficiency in Street Works. Each seminar was designed to inform the sector on the latest waste avoidance techniques, the use of recycled and stabilised materials, and how they fitted within the current specifications. <

JD7 Pressurised Pipe Inspection and Leak Detection System

The JD7 pressurised pipe inspection and leak detection system allows all pipe work, over 3in. diameter, to be examined for condition and leaks whilst operating the network at full pressure. Introduced through existing hydrants and valves it creates no disruption for consumers or highways users.

- Elimination of excavation (30% improvement immediately)
- Pinpoint Leaks in all pipe materials
- Environmental impact through non-excavation
- Less water loss through quicker identification and repair
- 60% cost savings over conventional processes
- Underground mapping and asset management
- Accuracy greater than 0.5 litres/hour
- Assess pipe structural integrity
- Lining QA tool

The JD7 system is fully portable and involves attaching a launch mechanism onto existing fire hydrants and/or valves. A miniature detection head is then navigated into the live water main network and driven up to 100m in any direction. This process prevents any disruption to customers as water supplies are not affected.

The software identifies the smallest of leaks (0.5 litres/hour) by passing the sensor head over the leak site. Unlike conventional leak detection systems, this new process is successfully used for all pipe materials and multiple deployments can be carried out within the same timescales as conventional detection

methods

The miniature detection head incorporates a digital camera for visual data validation, leak detection and internal condition assessments as well as a Sonde suitable for use with all pipe materials that enables above ground tracking and helps map the assets reliably.

Fully supported and tested by Balfour Beatty Utility Solutions the systems are now being implemented within Yorkshire Water, United Utilities and Three Valleys Water with the view to implementing across all water PLC and utility companies in 2009. <



U MOLE Continues Country-wide Expansion of Client Service Capacity



U Mole (a division of Vp plc, operating under the Groundforce banner) is pleased to announce the expansion of its country-wide client service capacity with the appointment of three new regional sales personnel and the opening of its newest sales and service depot in Wigan, Lancashire.

NEW SALES MANAGERS

In order to offer an improved client service, U Mole recently appointed two new regional sales managers and a regional salesman. James McMahon has been appointed to cover the North and Northwest area of England and will be based in the northwest area, out of the newly established Wigan depot, which came on line in March 2009. The Wigan site offers service, storage and workshop facilities that will enhance speedy customer service and equipment repair as well as equipment maintenance.



Mark Aspinal, the most recent appointee starts as sales manager for the East and South East regions, and Ian Holt has been appointed as salesman for the Midland and Southwest area. <

New for SED from TT-UK (Grundomat) - GRUNDODRILL 4X Small and Powerful



This small, compact and versatile HDD bore rig is designed for use in confined working conditions. Its lightweight design and rubber tracks ensuring minimal operational road and pavement surface damage make it ideally suitable for residential areas and narrow alleys when installing house connections for sewage water, fibre optic cables, gas and water. Offered with a choice of two Bentonite mixing systems it can be quickly and easily set up ready for pilot bore operation and thus increased productivity. With minimal investment and ease of operation this rig is ideal for smaller HDD pipe and cable installation projects. <

Perforator® Pilot Auger System Supports Surface Water Outfall Construction Works

Mosley Molding Ltd recently undertook a pilot auger bore crossing of the M11 motorway near Chigwell, North London to install a new 65m long 610 mm diameter surface water outfall pipe for ODA Logistics Centre, with PJ Carey acting as the main contractor.

TRENCHLESS OPTION

As the required pipeline ran beneath the busy M11 there was little alternative but to use a trenchless solution for the installation. Any thought of utilising traditional open cut was set aside because of the major disruption this would have caused to traffic flows.

Mosley Molding chose a Perforator® PBA150 pilot auger boring unit for the work combined with laser guidance for control of line and level of the gravity drainage pipe and steel jacketing to overcome anticipated potential clay stone and boulder intrusions in the identified stiff clay .

Part of the reasoning behind choosing this machine was its ability to work from a relatively small shaft to the similarly small reception shaft which was being designed as a manhole shaft for the operating pipe once completed. Using a system that could work to and from small shafts meant that works on other sections of the

pipeline could proceed uninterrupted by the boring works.

The pilot bore, reaming to size and steel pipe installation took just over two weeks to complete slowed mainly by the need to install the steel pipe in 2m sections with each joint being full seam welded before the next section could be pushed in to place.

The site location and work method ensured that no special arrangements were required in terms of limiting local residential or business access and thus no disruption.

Quantity Surveyor for Careys, Paul Orbell, commented: "Mosley carried out the work quickly and efficiently and we were very impressed with the extremely high accuracy achieved by the Auger Boring system. Reliability in this kind of application is paramount and that is what was delivered." <



Modified Sliplining Eliminates Bursting Problems in Canvey Island



As part of a local waste water pumping station refurbishment project at Canvey Island, an asbestos cement pipeline, located beneath Thames Road and Thorney Bay Road, required renovation.

As part of the planning process, all potential renovation techniques were investigated the InsituFold™ installation process selected because of its ease of installation and its close fit to the host pipe enabling maximum flow capacity to be maintained.

INSTALLATION OF THE INSITUFOLD™ SYSTEM

Once the ends of the pipeline had been accessed via pits excavated by principal contractor, Barhale, the pipe length was decommissioned and surveyed by closed circuit television to ensure there were no significant obstacles, deformities or obstructions to cause delay during renovation. Insituform then set up its InsituFold™ machine to prepare the liner pipes.

Four 435mm diameter liner installations were required, totalling 740m, using SDR 26 Black PE 100 liner pipe, which was supplied by GPS PE Pipe Systems and delivered in 12 meter lengths.

After each length of liner was prepared using a McElroy butt welding system the pipe was passed through the InsituFold™ machine which altered the shape of the pipe and resulted in a diameter reduction of up to 40 percent of the cross-sectional area. This shape was maintained during the pull-in process by using banding straps until it was fully installed in the host pipeline



using a 10 t winch.

Once the liner was installed in the host pipe, water pressure is applied internally which reverts the HDPE back to its original round form. The banding straps break, allowing full reversion to be completed. The water pressure is held for a set time to allow the now re-rounded pipe to establish a close fit to the host pipe.

The project took six weeks but the liner installations were each completed in a single day. <

Newsletter Sponsorship

Sponsorship of articles including your company details and logo, can also be included at the following rates:

Banner (max. 3cm high) £100

1/4 page (Not on front page) £250

For more information, please contact the UKSTT Secretariat at:

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WHO'S WHO?

For details of UKSTT council officers and staff please check the web site www.ukstt.org.uk or contact the team at Leamington Spa on 01926 330935