



## October 2009

### UKSTT support Drain Trader Exhibition

*UKSTT Technical Secretary, Peter Crouch, was again raising the flag for the society at the Drain Trader exhibition at Cheltenham last month. The two day event gave opportunity to utilise the new audio visual display equipment and show off the revised CD of presentation material. The CD is used for lectures and presentations by council members in promoting knowledge and awareness of trenchless systems and equipment to university undergraduates and other institutions, clubs, and societies.*

It was another excellent show, with real interest from delegates, many of whom are already society members. Some were keen to see the new material and offer advice on further enhancements.

Peter was able to promote other UKSTT corporate members' literature and draw delegate attention to

the real benefits of society membership. Apart from networking at technical seminars such as those planned at Bristol and Wakefield in November, and Belfast and Dublin next March, there is the annual awards dinner at Birmingham in April (see later articles) and opportunity to place free project reports and information in the regular UKSTT newsletter copies of which Peter had available on display.



For more information visit [www.ukstt.org.uk](http://www.ukstt.org.uk)

### UKSTT Annual Awards Dinner



*The United Kingdom Society for Trenchless Technology (UKSTT) will be holding its 16th Annual Dinner and Award Ceremony on Friday 23rd April 2010. The event will take place at the Holiday Inn, Birmingham. The evening will again be hosted by the recognised TV personality and naturalist, Chris Packham for the 6th year.*

The event celebrates the contributions made by organisations and individuals to the promotion, use and development of Trenchless

Technology in 2009. The categories remain the same for 2010, Rehabilitation, New Installation, Small Project, Innovation and Young Engineer. It is never too early to submit an entry. Information on entering the Awards and an application form can be found on the UKSTT website

([www.ukstt.org.uk](http://www.ukstt.org.uk)) or by emailing [admin@ukstt.org.uk](mailto:admin@ukstt.org.uk). Completed forms should be returned by email along with supporting evidence, including photographs by 27-Feb-10.

The price of tickets for the Dinner remains the same as 2009 at £69 each (incl. VAT).



UKSTT Award Winners 2009

For more information visit [www.ukstt.org.uk](http://www.ukstt.org.uk)

## Announcing No-Dig Road Show 2009/10 Bristol – Wakefield – Belfast – Dublin

*UKSTT in conjunction with Westrade are again running four technical road show seminars to promote knowledge and awareness of trenchless systems and techniques as well as offer excellent opportunities for client and colleague networking.*

Society Patrons are ensuring they and their contractors attend with confirmations of support. And these seminars are sure to be a very positive opportunity to mix, mingle, learn and link up with existing and new contacts.

As many of our regular exhibitors will know, the NO-DIG ROAD SHOW programme has been running biennially for a number of years and is an excellent opportunity for suppliers to take part in a series of one day events where you will meet a completely new audience at each location.

The venues have been carefully selected and in response to feedback from utility companies who

have indicated a keen interest in attending educational seminar programmes in their respective areas. In particular, you will note that the Wakefield event is sponsored by Yorkshire Water who have already committed to sending a number of visitors and delegates.

The seminar programmes are compiled by technical experts from within the UKSTT and are tailored to suit each geographical location. Details of the presentations will be published towards the end of September.

Exhibition space is limited at each venue and anyone interested should urgently contact Westrade without delay.

If you have any queries please do call me on Tel: 020 8876 1881 or Paul Harwood on Tel: 0845 0948066.

For more information visit [www.ukstt.org.uk](http://www.ukstt.org.uk)

## HDD Specialist 'Prime-Drilling GmbH' supply equipment destined for Saudi Arabia

*Company DCL Ltd., based in Al-Khobar Saudi Arabia, who earlier this year were congratulated for their outstanding achievement on the 2 no 3km world record undersea 24" and 30" pipeline crossings on the Berri Causeway project, have increased their HDD rig fleet capacity by investing in a new Prime-Drilling PD 250/90 machine*



TT-UK, who were involved with DCL on a job-site late last year, introduced and recommended a visit to their Prime-Drilling HDD division in Germany following an exchange of technical discussions and indicated interest in December 2008.

During a European business trip earlier this year, Chairman, Mr Abdullah Natheer of DCL Ltd, witnessed first hand the design, quality and

manufacturing facility of HDD specialist Prime Drilling, based in Wenden-Gerlingen, West Germany and after discussions with Prime-Drilling's Technical Director, Mr Frank Auringer and his team, Mr Natheer placed an official order for the supply of a PD-250/90 Trailer Mount unit.

For more information visit [www.ukstt.org.uk](http://www.ukstt.org.uk)

## UKSTT and Pipe Equipment Specialists Ltd support PIG

*Steve Kent, UKSTT chairman, is hosting a technical evening for North East and Yorkshire branch of the Institution of Gas Engineers and Managers in conjunction with UKSTT and the Pipeline Industries Guild (PIG) at Pipe Equipment Specialists offices at Stockton-on-Tees on 14th October. .*

Steve will be giving a paper on Swage Lining and its development over the last 20 years with details of a current major project in the Congo and the UKSTT Technical Secretary, Peter Crouch, is presenting a paper on Trenchless Technology and waste minimisation which formed part of the recent successful WRAP seminars reported in the newsletter in June.

For more information visit [www.ukstt.org.uk](http://www.ukstt.org.uk)

## Ferro Monk Delivers 'Double Whammy'

*Ferro Monk Systems, part of the Clugston group of companies recently completed a successful project on the Hendon Brook Walverden Water Flood Alleviation Scheme Phase 1. The project which was successfully completed on time and on budget involved using two of the company's solutions, Cured in Place Pipe Lining (CIPP) and the company's own patented Ferrocement solution. Ferro Monk is one of the very few companies in the UK capable of providing this range of solutions on projects of this nature.*



Working closely together with Jacobs Engineering UK Ltd, the consultant engineer on the project, and the Environment Agency, who commissioned the work, the company established the most cost effective, best suited and timely solutions to tackle the problems at Hendon Brook.

The project, which lasted a total of four weeks, required a series of complex phases to be completed. CIPP was used to three culvert sections, each of which had its own unique

requirements and involved lining corrugated steel pipe as well as clay and concrete pipe. All the sections were successfully lined with bends negotiated smoothly and minimal loss of cross sectional area, resulting in a much improved flow characteristic due to the smoothing effect on existing corrugations.

A final culvert, beneath Leeds Road in Nelson, which had failing brick problems, was too large to be lined with CIPP. In this instance Ferrocement structural lining was used to the side walls and arch. To successfully complete the work, the culvert had to have significant levels of silt and debris removed by man entry teams in advance of any rehabilitation.

Mr Ian Gemmell, Contracts Manager, from Morrison Construction commented, "Ferro Monk Systems provided not just one solution but two, with CIPP and Ferrocement. The senior team involved objectively looked at the requirements of the project identifying what was required and delivered on time and on budget what was a perfect solution. We were most impressed with the outstanding professional service and support we received."

For more information visit [www.ukstt.org.uk](http://www.ukstt.org.uk)

## High Strength Liners for Highway Culvert Rehab Project in Devon

*Insituform Technologies, Inc. ("ITI") recently introduced the iPlus™ Composite system to its portfolio of pipeline rehabilitation products in the United Kingdom. Designed to provide an additional solution for the client, the new iPlus™ Composite system combines ITI's standard liner materials with carbon fibres and/or glass fibres. This reinforced Insituform® cured-in-place ("CIPP") product has greater strength and stiffness than traditional CIPP systems. In addition, its thin-walled liner maximises the operating capacity of the renovated pipeline. The advantages of ITI's iPlus™ Composite system are currently being demonstrated on a project for the lining of culverts under the main A30 trunk road near Exeter, UK.*



The project for the UK Highways Authority involves the structural renovation of 10 culverts running beneath the main A30 holiday route through Devon and Cornwall. Because of

estimated future drainage flows and the load bearing capacity requirements from the increasing traffic flows on A30, this renovation is required to ensure the long-term operational viability of the culverts.

Each culvert was individually assessed in order to specifically design the appropriate rehabilitation liner and the UK Highway Authority decided to utilise the standard Insituform® CIPP process and liner materials on six of the 10 liners and the new iPlus™ Composite liner on the remaining four sites.

Whilst the use of the Insituform® CIPP standard liners on six of the culverts was relatively straight forward the iPlus™ Composite liner installations offered some challenges not from the product but because of the reasons for the higher strength liner selection.

Continued..

On one particular culvert access, the launch site for the lining operation is located approximately half a mile down a very narrow and winding country lane which forms the only entry and exit to a small local hamlet. Not only that, but the liner truck had to be reversed down this road to ensure the correct positioning to launch the liner successfully.

To invert the liners, tankers were normally used to provide the necessary water, due to the limited access to water main supplies in the remote locations of most of the culverts. This again meant that, where necessary, tankers had to be individually reversed down to the jobsite via some very narrow country lanes.

For more information visit [www.ukstt.org.uk](http://www.ukstt.org.uk)

## Lanes keeps Blackburn sweet

*Despite being slap bang in a town centre's busy shopping area, a sewer rehabilitation project carried out by Lanes for Drains and Balfour Beatty Utility Solutions (BBUS) for United Utilities, was a resounding success thanks to a concerted programme of communications and meticulous traffic management.*

Every potentially affected business and shop, in MP Jack Straw's constituency of Blackburn, including the local law courts, was consulted before, during and after the high profile scheme to reline a Victorian brick built sewer. Due to the diligent customer service team's proactive programme of communications there was not a single objection or complaint.

BBUS carried out enabling works in Northgate - four sections of trenched over pumping to keep the sewer functioning - during February, prior to rehabilitation work which began in March.

BBUS was granted a 10-day partial road closure to carry out the works during which traffic management was handled by both BBUS and Lanes for Drains.

Extra care was given to pedestrian safety because of the site's proximity to the shopping centre. Fencing was erected and scaffolding put up ready for the 103-metre long liner to be lifted into position via a 30-tonne crane with a restricted boom. The crane was smaller than would usually have been used because of the limited working space caused by having to keep the road passable during the works.

Lanes' reline expert, Peter Hopkinson, explained that a special liner was used: "The sewer was egg-shaped with dimensions of 800/850mm x 550mm, so we specified a concentric liner. When a liner is manufactured, the felt is put down, layer upon layer, to produce the required thickness. With a concentric liner, the inside of the tube is made bigger so that, when the liner is inverted, there is less danger of the felt material wrinkling whilst it is being impregnated with resin or during installation."

The liner took approximately 6 hours to install into the sewer using water pressure and a further 14 hours for a full cure, which was effected by heating the water to the required temperature (86°C) in a staged process.

The water was then force cooled and drained off for disposal.

Lanes completed installation, reopened the lateral connections and cleared the site ahead of schedule and BBUS rebuilt the manhole and removed the trenched temporary overpumping, also ahead of schedule, allowing the partial road closure to be lifted 2 days earlier than expected.

Michael Bolton BBUS Site Manager said:

"The highways department monitored the project very closely because they were interested in our approach to protecting the public during town centre work sites, with the Heras fencing, pedestrian walkways, risk assessments and so on.

"We made sure all stakeholders knew what was happening and

what to expect on a daily basis, with face-to-face customer service visits and detailed information on lamp post signage. Local businesses and the public were happy that we were doing everything we could to minimise the disruption.



"For us, this operation was about partnership. We were very confident in Lanes for Drains' experience and ability to do the job in partnership with Balfour Beatty. The project was a great success all round."

For more information visit [www.ukstt.org.uk](http://www.ukstt.org.uk)

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*For more information, please contact the UKSTT Secretariat at:*

**[admin@ukstt.org.uk](mailto:admin@ukstt.org.uk)**

## WHO'S WHO?

*For details of UKSTT council officers and staff please check the web site [www.ukstt.org.uk](http://www.ukstt.org.uk) or contact the team at Leamington Spa on 01926 330935*