UNIVERSITY CULVERT REHAB

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[ian@nodigmedia.co.uk](mailto:ian@nodigmedia.co.uk) by 10 November, 2015

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INDUSTRY, COMPANY AND INSTITUTION NEWS AND RESEARCH

ELECTRO SCAN AND WRC PARTNERSHIP

Electro Scan Inc. and its London-based subsidiary, Electro Scan (UK) Limited, recently announced its partnership with WRc plc, of Swindon, Wiltshire, UK.

As part of its agreement, WRc has been appointed Electro Scan’s exclusive service provider offering its next generation pipe condition assessment technology for the United Kingdom and Republic of Ireland wastewater market.

Electro Scan services will be offered exclusively through WRc’s Assess and Address® business unit.

“WRc’s proven track record of partnering with innovative technology companies is central to growing our pipeline condition assessment business.” stated Dale Hartley, Commercial Manager of WRc. He continued: “Electro Scan’s product fits nicely into our best of breed bespoke services offering.”

“WRc’s leadership in innovation and consultancy was a key factor in our decision to work together.” commented Mark Grabowski, General Manager, Electro Scan Inc. He added: “Given the start of AMP6 in the UK, WRc appears well positioned to help utilities optimise their CAPEX, OPEX, and TOTEX decision making.”

In August 2015, WRc secured the Scottish Water SR15 Pipeline Inspection and Condition Assessment Framework for a six year period, with an option to extend for a further six years. In April 2015, Electro Scan (UK) Limited won Best Project awarded by the UK Society of Trenchless Technology for its work with Severn Trent.

Selected Electro Scan customers in the U.S. include the City of Coos Bay, Oregon, Eagle River Water & Sanitation District, Colorado, Hamilton Municipal Utility Authority, Pennsylvania, Miami-Dade Water and Sewer Department, Florida, and San Francisco Public Utilities Commission, California. WRc has a reputation for driving innovation across water, waste and gas sectors, leading the development and application of innovative technologies for inspection, monitoring and management of pipeline infrastructure. Website: www.electroscan.com

DYNO PLUMBING GOES WITH HAMMERHEAD

Dyno North East, the Durham-based Dyno Plumbing franchise has recently taken delivery of, and completed operator training with, its new Hammerhead 50 mm Active Head service mole kit.

Supplied by Ely-based Mammoth Equipment Ltd, the mole kit was supplied along with a new 8 bar Rotair VRK 120 portable compressor, the first of this type in the UK.

The combination of the Hammerhead and Rotair equipment allows Dyno North East to provide a specialist moleing service for water service renewals/replacement operating from a specialist service van.

Cliff Barry, Director and owner of the franchise, considered all alternatives before choosing the Hammerhead/Rotair combination from Mammoth Equipment.

Performance and productivity were key factors in his decision but it was the attractive initial purchase costs and long term low and simple maintenance costs of the equipment together with the two year manufacturer warranty on the Hammerhead mole that finally clinched the deal.

Mammoth Equipment is the sole distributor for Hammerhead in the UK and Ireland with a range that of Trenchless and support equipment that includes Hammerhead™ moles, rammers, pilers and pipe bursters, as well as winches. The range also includes Pipe Trailers Ltd’s HyPower 500 and ‘V’ Series range of market leading coil trailers. The company provides full technical support, spares and service together with training in the correct use and servicing of the equipment. Website: www.mammothequipment.co.uk

Electro Scan services will be offered exclusively through WRc’s Assess and Address® business unit.

Dyno North East utilising its new Hammerhead 50 mm Active Head service mole kit.
PIPE BURSTING PROS DEPEND ON HAMMERHEAD

"No-DigTec specializes in pipe bursting, both water and sewer, and we rely on HammerHead equipment on all our jobs. When I need HammerHead equipment I haven’t bought yet, I rent it. Their tools are far easier to work with than others we’ve tried. Working with them, we’ve successfully completed some of the toughest pipe bursting projects in the country, on time and on budget."

JOHN L. NEWELL,
President
No-DigTec, Dallas, Texas USA

EQUIPMENT. EXPERTISE. SUPPORT.

HammerHead equipment and expertise take the guesswork out of pipe bursting. And legendary HammerHead support puts even the toughest pipe bursting jobs within your reach.

Find your local dealer at hammerheadtrenchless.com or call +1 920-648-4848
PROUD GRANDSON CARRIES ON FAMILY TRADITION

TT-UK has worked with its sales partner Reef Trenchless Technology of Johannesburg for almost twenty years and the recent and very sudden and sad passing of Chris Elhers, (former Managing Director of Reef), was a shock to everyone. Tyler Craayenstein, the grandson of Chris, has now taken over as Head of Sales for the Trenchless Technology Business and is proud to be continuing to build on his grandfather’s firm foundations.

This September saw the return of BAUMA Conexpo in South Africa where Reef Trenchless Technology was in attendance to continue to extol the virtues of Trenchless Technology. Reef was showcasing the latest innovations of the Tracto-Technik range of No Dig equipment and was joined by Roger Atherton, Business Development Manager for TT-UK. Whilst the overall number of visitors to the Show was disappointing, the four day event did provide a steady stream of interested visitors and customers to the Reef Trenchless Technology stand and as the popularity of Trenchless Technology continues to build in this region, Reef gained a number of Grundomat Mole orders and received several strong and lucrative enquiries from interested existing customers who were looking to upgrade their current HDD machines to larger and newer models from the Tracto-Technik range. A busy time will follow as Reef continues to follow up all the enquiries taken.

Roger Atherton said: “TT-UK together with the TT Group will continue to provide full sales support and back up to Reef’s sales of No-Dig equipment in the South Africa region and we wish Tyler every success in his challenging new role as Head of Sales.” Website: www.reeftrenchlesstech.co.za

EMPLOYMENT OPPORTUNITY

BUSINESS DEVELOPMENT OFFICER

The UK Society for Trenchless Technology is looking to recruit a creative and driven Business Development professional to the new role of Business Development Officer. This is an exciting opportunity to develop and promote the Society. The key aim of this role is to raise awareness of Trenchless Technology and to increase our membership.

The successful applicant will be required to develop and deliver a marketing strategy that supports UKSTT’s strategic objectives and its long-term vision. The successful applicant will be coming to work in a fast paced, lively and interesting Society that faces some challenges and wonderful opportunities over the next five years. A proven track record in B2B Marketing is essential with a minimum of 3 years’ experience of marketing and PR communications in a client facing role.

Experience of developing social media platforms will be advantageous.

Due to the nature of the role, the successful applicant will need to be flexible in working pattern, to include visiting current and prospective members, creating closer links with related associations and supporting the Society at events.

The position will be office based in Norwich or the North East but flexibility and a full driving licence is essential. A minimum of 25 hours per week is required.

Salary £22 – £28k depending on experience.

For further information call Lynn Maclachlan on 01926 513773 or email admin@ukstt.org.uk
MAMMOTH/MTS BROCHURE

Mammoth Equipment Ltd and its subsidiary company MTS Suction Systems UK Ltd of Ely in Cambridgeshire, UK used the recent UKSTT Roadshow event in Bristol to showcase their new corporate image and brochure. As a key event in the Trenchless Equipment calendar the roadshow offered an ideal platform to not only highlight the two companies products, but also to cement their relationship in their clients eyes. With over 80 delegates attending the papers and many more visitors attending just the exhibition, Mammoth concentrated on its Hammerhead range of moles, bursters, rammers and winches with equipment on stand to illustrate the principal. MTS Suction Systems attracted attention not only for its range of MTS suction exaction equipment, but also for sewer/culvert clearance applications where depth and/or distance is an issue to more traditional vacuum systems.

Frank Gowdy, Director of Mammoth/MTS UK attended the event and commented the quality and quantity of visitor had been excellent with several firm enquiries for equipment being received. He also confirmed that the companies will be attending the forthcoming UKSTT Roadshow in Belfast in March 2016. Websites: www.mammothequipment.co.uk or www.mtssuctionsystems.co.uk

COLLINS ORTON RETIRES

Collins Orton, California regional sales manager for TT Technologies and one of the most recognisable figures in the trenchless technology industry, recently announced his retirement. Orton has been involved with the water, wastewater and gas industries in various roles and capacities since 1969. Working with trenchless technology for much of his career, Orton’s commitment to the industry is well documented and recognised.

Chris Brahler, President/CEO of TT Technologies reflected on Orton’s influence. He said: “The trenchless industry will definitely miss Collins Orton. He has done so much to promote the industry and has put in effort above and beyond for trenchless education, trenchless safety and trenchless contractors and engineers. So, obviously at TT Technologies we are sad to see him go. We wish him all the best. Our next generation of team members will be working hard to fill that hole.”

Over the years, Orton has maintained active memberships in numerous organisations including the American Water Works Association (AWWA), of which Orton has been a member for over 25 years; the Water Environment Federation (WEF); the California Water Environment Association (CWEA); and the National Association of Corrosion Engineers (NACE). A frequent contributor to industry presentations and educational sessions, Orton is respected for his knowledge and expertise, as well as his dedication to trenchless technology and his continuous efforts to grow the industry.

Previously employed by Miller Pipeline Corp., U.S. Pipe and Smith-Blair, Orton is a lifetime resident of the S.F. Bay Area. He plans to remain active in the trenchless industry in an educational role, while enjoying time with his grandchildren and achieving his goal of skiing 100 days or more in 2016.

MCELROY ADDS FUSION EQUIPMENT DISTRIBUTOR

McElroy recently announced the addition of a new distributor to serve pipe fusion machine customers throughout Louisiana, USA.

Industrial Municipal Supply Co., Inc. (IMSCO) of Geismar, Louisiana, joins McElroy’s expanding network of North American distributors offering the world’s most extensive line of fusion machines and tools for thermoplastic pipe.

IMSCO has 40 years of experience in custom fusion service, on-site fabrication and maintenance on McElroy machines in addition to being a supplier of high-density polyethylene (HDPE) pipe, valves and fittings.

“IMSCO’s extensive background in pipe fusion makes it a natural fit as a distributor of our machines, and we are very happy to bring the company aboard.” said President Chip McElroy of McElroy. “Building reliable pipelines requires reliable equipment. Together, we play a crucial role in building the world’s best infrastructure.”

Collins Orton.

The Mammoth/MTS stand at the recent Bristol No-Dig Roadshow.
SMITH TO LEAD HAMMERHEAD

Charles Machine Works, has appointed Kevin Smith as HammerHead Trenchless Equipment president. Rick Johnson, CEO of Charles Machine Works and interim HammerHead president during the candidate selection process, has endorsed Smith as the ideal choice for the Charles Machine Works company which offers trenchless repair and rehabilitation solutions, as well as pneumatic tools for a variety of applications.

Smith had been serving as president of MTI Equipment, itself a Charles Machine Works company – as is Ditch Witch, where Smith had worked through the years as director of product definition and research, product planning manager, business manager and salesman.

Johnson said: “Kevin’s incisive vision comes directly from his solid industry background working with leading manufacturers within the Charles Machine Works family of companies. This means he knows every aspect of the business from multiple angles. He not only sees where HammerHead Trenchless Equipment can go but how to get there.”

Tiffany Sewell-Howard, Executive Chair for Charles Machine Works, said: “Throughout his admirable career, Kevin has been an integral part in achieving the goal shared by our family of companies: ensure our customers success by providing the most complete solutions for the installation, replacement, and maintenance of underground utility pipe and cable.”

Smith said he looks forward to continuing the legacy of HammerHead Trenchless Equipment. “I strongly believe that our strategic alliances with global industry leaders and our close relationship with our sister companies Ditch Witch, Subsite Electronics, DW/TXS, Radius HDD, American Augers, Trenco and MTI Equipment, will continue to assure the success of our customers. This is an exciting time to take this position, having seen the new, next-generation solutions being launched, with more soon to be released.” Website: www.hammerheadtrenchless.com

MICHELS SAFETY CAMPAIGN ACCLAIM

Michels was recently honoured as a runner-up in the 2015 International Pipe Line and Offshore Contractors Association (IPLOCA) Health and Safety Award sponsored by Chevron. Michels received the recognition for its ‘Promise Me’ campaign, a powerful video campaign that featured employees’ families poignantly asking their loved ones to promise to always work safely.

“Safety is our highest core value and we are relentless in our pursuit of new ways to remind our people of the importance of working safely.” said Sean Nicholson, Michels HSE Director. “We think this video campaign’s success is attributed to its simple, honest and organic message. We hope it resonates with everyone who sees it and we are pleased to share it with our industry and beyond.”

This IPLOCA award recognises significant achievements in the health and safety field. Michels Senior Vice President Mike Prior received the certificate during the annual IPLOCA Convention in Singapore. Website: www.michels.us
INDUSTRY, COMPANY AND INSTITUTION NEWS AND RESEARCH

NAYLOR CELEBRATES 125 YEARS

Yorkshire based Naylor Industries is celebrating its 125th year. The company, a fourth generation family business, was founded as a clay pipe manufacturer by George Wilfred Naylor in 1890.

Initially, manufacturing operations centred on the West Yorkshire village of Denby Dale, some 4 miles from Naylor’s present day head office at Cawthorne, near Barnsley. Recent decades have seen the company expand into new markets and in addition to 3 factories in South Yorkshire, Naylor now has plants in Fife, Cheshire and the West Midlands manufacturing a range of clay, plastic and concrete products.

Whilst the company primarily supplies the construction industry, Naylor’s Yorkshire Flowerpots business is now the UK’s largest manufacturer of terracotta garden pots. Business turnover now exceeds £50 million and the company employs some 400 people.

Furthermore, Naylor Industries recently played a prominent role at this year’s Barnsley and Rotherham business awards.

The company was given a special award in recognition of its 125 year anniversary and was also highly commended in the two categories in which it was shortlisted - the International Trade and Skills Development categories.

The winner of the international trade category - Naylor customer Rack Group - also had a strong Naylor connection, with Naylor manufacturing the high visibility tubes which Rack sells as part of their widely exported Rack Armour industrial racking protection system. Website: www.naylor.co.uk

EPIPE® RECEIVES FRENCH APPROVAL

Pipe Restoration Technologies (PRT), a world-leading pipe lining innovator and manufacturer, recently announced that its ePIPE Potable Water Epoxy has received the Attestation De Conformite Sanitaire (ACS) (Certificate of Sanitary Conformity) in France.

Under the supervision of CARSO, ePIPE setup and testing was audited and completed on site in Leon, France. The ACS Certificate applies to materials in contact with water intended for human consumption. ePIPE has been approved for application to all sizes of water pipes and has been approved with an immediate return to service after a fast, three hour cure. ePIPE is the fastest return to service coating of its type in France.

“ePIPE is a proven, patented solution for in-place rehabilitation to small diameter pipes where protection against low water flow, leaks and lead leaching are required.” said Larry Gillanders, CEO of Pipe Restoration Technologies, LLC. “France, like the UK, has millions of lead based water supply pipes still in use. ePIPE provides a positive, responsive answer to lead leaching and leakage in pipes, in a matter of a few hours, not days.”

Compared to products that can take days to cure and return to service, ePIPE minimises customer water down times to a matter of hours, and for an installer, that can avoid the costs associated with overnight cure resins and a return visit to a job site to reinstate water supply.

“We would you wait days to cure out and complete a job when it can be completed in a matter of a few hours?” asks Gillanders. Website: www.epipeinfo.com

STEVE VICK INTERNATIONAL LAUNCHES NEW WEBSITE AND CORPORATE IDENTITY

Trenchless solution specialist and company of the year winner at the 2015 Gas Industry Awards, Steve Vick International (SVI), has launched a new fully optimised website: www.stevevick.com. The redesigned site equals the company’s continued growth and expansion within all four sectors of the business; Gas, Water, Nuclear and Contract Services.

The website combines easy-to-navigate functionality with a fresh modern design; all part of the company’s efforts to

The Naylor team celebrates 125 years.

ePIPE Potable Water Epoxy in France.

Illustrating a worksite on the new website.
INDUSTRY, COMPANY AND INSTITUTION NEWS AND RESEARCH

enhance the customer’s experience. The new improved translation feature allows International users to access information in: French, Dutch, Spanish, German and Italian.

Other key features of the site include: Improved search navigation; Enhanced content; and a ‘Downloads’ section - where users can quickly access technical information. Useful functions incorporate direct links to: The company Twitter and LinkedIn pages and an option to subscribe to the company newsletter.

Chairman Steve Vick commented: “We are a long established family business and as such we recognise the importance of constantly innovating and having a fresh modern presence online and within social media.”

SVI understands how helpful it can be for customers to be able to view its products in action. With this in mind, dedicated product and procedural videos have been produced, all of which are available to watch and download from the ‘Videos and Animation’ section of the website: www.stevevick.com/videos-and-animation

MANAGEMENT CHANGES AT tacs

The long-standing Managing Director at tacs, Uli Ramminger MSCS (Master Science/Computer Science), has decided to pursue new professional challenges. He will resign his position as Managing Director as of 31 December 2015 and will leave tacs gmbh. He will however act as consultant to the company in the future.

Uli Ramminger was one of the key developers and programmers of the acs guidance system. He has shaped tacs gmbh over the last 20 years in his role as authorised signatory and Managing Director and had a crucial impact representing the company both nationally and internationally. The shareholders and colleagues have thanked him for his work. Company co-founder and main shareholder, Professor Fritz Grübl, is to be appointed Managing Director on November 1, 2015.

Graduate Engineer Jens Endres will become the new Commercial and Technical Manager and will be appointed authorised signatory of tacs gmbh from November 1, 2015. Jens is a highly qualified and reliable project manager in the company team. Due to his vast technical expertise in the area of guidance systems and his business know-how he has successfully carried out projects nationally and internationally for many years. Website: www.tacsgmbh.de
MODERN DRAINAGE FOR DOHA

Two EPB Shields from Herrenknecht have provided first-class work during tunnel excavation of the large scale Abu Hamour Southern Outfall Project. After about 5 km of tunnelling each, both high-tech machines broke through the target shaft precisely to the millimetre in quick succession of each other. The segmental lining method has proven successful in the smaller diameter range for the first time in Qatar. The newly created sewage tunnels are important to better protect the city and the inhabitants of Doha from floods after heavy rainfalls.

Both Herrenknecht TBMs, each with a diameter of 4.47 m, only required 12 and 14 months respectively for their tunnel sections. Under the professional guidance of Salini-Impregilo, the construction company responsible, they achieved remarkable top performances of up to 165 m per week. At a depth of around 30 m, the EPB method proved to be the optimum choice to master the cohesive soil with its high proportion of rock in Doha. Herrenknecht designed a special cutting wheel with a large opening ratio for the customer, resulting in correspondingly efficient material excavation. High maximum push forces ensured top advance rates for both machines. The final breakthrough on 29 July, 2015 marked the conclusion of Phase 1 of the tunnelling work on the Abu Hamour Southern Outfall Project.

“Both EPB Shields with segmental lining were perfectly suited for the project requirements in Doha.” said Simone Centis, project manager for Salini-Impregilo, during the breakthrough celebration. “The great partnership with Herrenknecht helped us to find the best technical answers for the often heterogeneous soil. This allowed for highest possible efficiency during tunnelling and project progress.”

Qatar is one of the driest places on Earth. When it rains heavily in Doha, this can result in dangerous flooding because the metropolis is only a few meters above water level, and therefore above the groundwater level. The Abu Hamour Southern Outfall Project should help to reduce this danger in the future. A tunnel system will drain-off superfluous water and relieve the existing pumps, which lower the high water level. This will save considerable energy and costs for the public. Further projects to improve the drainage situation in Doha and its surroundings are planned or already being constructed, including the Inner Doha Re-sewage Implementation Strategy (IDRIS) Project.

Herrenknecht technology is also working underground to improve the traffic situation in Qatar’s metropolis. With over 50 tunnel kilometres already completed for the Doha Metro, 21 EPB Shields from Herrenknecht with a diameter of around 7 m have already accomplished much. Website: www.herrenknecht.com

ROBBINS MAIN BEAM RAMPS UP AT MID-HALTON OUTFALL TUNNEL

On July 22, 2015, a 3.5 m (11.5 ft) Robbins Main Beam TBM began a new chapter in its storied 32 year career. Originally built for the Terror Lake project in Alaska, the veteran machine has been used all over the world, most recently in Hong Kong. Including its new 6.3 km (4 miles) long tunnel for the Mid-Halton Outfall in Ontario, Canada, the machine will have bored nearly 30 km (18.6 miles) of tunnels since 1983.

The machine’s latest endeavour will not be without challenges. The rebuilt TBM has been beefed up for high-capacity tunnelling in hard rock. Geology is expected to consist of laminated shale with interbedded limestone and shale layers and a maximum rock strength of 120 MPa UCS. “We have kept this a simple, streamlined Main Beam machine, but we modified the cutterhead with larger muck buckets, so material can be moved through it faster,” explained Robbins Project Manager Lynne Stanziale. In addition the TBM was outfitted with fully modernised VFDs, electronics, and high-capacity gearing and motors. The back-up system was also modified to make it more mobile through two 130 m (427 ft) radius curves that the TBM will have to navigate, one in each direction.

“The concept of using refurbished TBMs bears great opportunities for value-for-money constructors.” said Christian Zoller, Commercial Project Manager for contractor STRABAG. “Our
TBM ‘Peggie’ is evidence of that, when well-maintained and professionally refurbished, the lifespan of these machines is extensive. We are pleased to see that our client Halton Region has the forward-oriented mind-set that allows STRABAG to provide its high level of skill and quality, paired with the good value for money that a refurbished TBM yields.”

Contractor STRABAG, which has had several projects in Canada including the epic Niagara Tunnel project, is in charge of the works. In addition to the tunnel, STRABAG had to construct two deep shafts for the launch and exit of the TBM. The scheme involves two sections of tunnel designed to carry treated effluent water from a treatment plant in Oakville into Lake Ontario. The completed system will upgrade water treatment capacity in the Halton Region of Ontario.

The TBM was launched from a 12 m (39 ft) diameter, 62 m (203 ft) deep shaft and is ramping up production, having excavated over 300 m by early September 2015. “An ongoing challenge associated with the tunnelling on this project is the requirement to drive the TBM downhill for the first 4 km (2.5 miles) of the tunnel. Keeping the water that infiltrates the tunnel from flowing directly to the cutterhead requires significant effort.” said Terry McNulty, Technical Project Manager for STRABAG.

Management of water inflows is not the only challenge. A portion of the drive will curve to run directly under Lake Ontario for 2.1 km (1.3 miles), though the tunnel is deep enough that it will remain in bedrock. Once the machine has completed its final bore under Lake Ontario, it will be backed out of the blind heading and removed from an 8.0 m (26 ft) diameter shaft in a local park.

“We can already see the potential performance that this TBM will have, once fully assembled and tested. We look forward to the continued support and cooperation with our partner Robbins on this endeavour.” said Zoller. Though the TBM has only recently started up, crews are moving forward with a plan to line the tunnel with mesh panels and ring beams if necessary. A cast-in-place liner will follow on after tunnelling is completed in August 2017. Website: www.robbinsibm.com
INSTALLATION OF A BEER PIPELINE USING RAMMING

In order to extend the production capacity of the Herzoglich Bayerisches Brauhaus Tegernsee Bavarian brewery two steel ND 800 pipes had to be installed to connect the new brewery site to the existing production facility. The steel pipes will carry beer and nitrogen pipes, power cables, etc. With dynamic ramming as the chosen method, the Koloss ramming hammer from TRACTO-TECHNIK was just the machine for the job. The unique challenge of the project was that over a length of 11 meters the installation passed under a building.

“Pipe ramming is the standard method for passing under traffic roadways; in rare cases the method is used to establish lead-ins into buildings, but it is an extremely uncommon method for the installation of pipe of this dimension.” Markus Spatz of TT’s Bavarian dealer BOTEC said.

Before ramming could begin, building foundations had to be chiselled out to a depth of 2 meters using a hydraulic hammer. Then the 6 m long steel pipes were positioned and aligned. Now the foundation area around the pipe was refilled with gravel concrete, securing the outer wall of the building and preventing the house walls from crumbling due to ground vibration during the pipe driving process. To make pipe jacking through the gravel concrete at all possible, the pipes were bubble wrapped.

Behind the foundation wall lay 10 meters of sandy and gravelly boulder clay which was pressed into the open steel pipe during the ramming process. Within 2 hours including the pipe changeover time, both pipes were positioned flush and perfectly parallel.

After installation, the pipes were cleaned out using a suction excavator. Approximately 12 m³ of soil had to be removed from each of the pipes.

The excavation marked the end of quite a risky ramming project, but meticulous planning, bold and well-considered decision making, as well as the right choice of equipment provided a sound basis for success. Website: www.tracto-technik.com
TAKING THE LEAD IN LYDNEY

Severn Trent Water chose the picturesque town of Lydney in Gloucestershire to trial an innovative technology that reduced the risk of lead leaching fromservice pipes into drinking water. Lydney is a small town on the west bank of the River Severn, close to the Forest of Dean. Around 100 residential properties, in four areas across the town, were selected to have their service pipes, from the mains connection in the street to the first tap inside the property, treated with ePIPE technology from Pipe Restoration Services (PRS).

PRS was established to deliver small diameter pipe lining using a specially developed, cost effective and sustainable solution to dissolved lead, corrosion and leakage challenges. The ePIPE process uses a modern epoxy resin with a short 2 hour cure time, resulting in a quick return to normal service and with little disruption.

Severn Trent Water wanted to understand how the cost and convenience of restoring the lead service pipes using ePIPE technology compared with replacing them outright. The findings would help inform its future lead policy and strategy. Central to the success of the trial was ensuring a positive customer experience as well as satisfying all Health and Safety, Quality and Environmental standards. Routine water sampling in Lydney had in the past revealed elevated lead concentrations above the new regulatory allowable level of 10µg/l (parts per billion). At the time of the trial, no orthophosphate dosing of drinking water was part of the treatment process for this area of the distribution network. The PRS team had to overcome a number of challenges including:

- Pipe sections running under buildings, extensions and conservatories
- Dead end sections of lead pipe that previously supplied outbuildings and garages
- Poorly manufactured Tee connections causing restricted water supply and resulting in long standing complaints about low pressure from customers

Tony Hanks, General Manager for PRS, said: “Despite the range of challenges we faced from the trial we were very positive. All of the service pipes treated with the ePIPE process showed significant lead reductions in line with the new 10µg/l limit. The cost per property of restoration over traditional replacement methods also compared well.” Website: www.piperestorationservices.co.uk

UNIVERSITY CULVERT REHAB

Combining traditional tunnelling technology with modern day rehabilitation techniques enabled Sydney Based ITS Pipetech to submit and subsequently provide a solution to RMS [Roads & Maritime Services - New South Wales] to extend the life of an existing set of culverts that crossed the M1/Princes Highway outside The University of Wollongong, Australia.

The prime objective of the work was to provide structural integrity and equalise the bores of a triple cell culvert that passed beneath one of the busiest arterial routes in Australia and to achieve a design life of 100 years.

The secondary consideration was to devise a methodology and a sequence of works that caused the least disruption to the motorway that carries over 18,000 vehicle movements a day - just 2 m above the top of the culverts

The University culverts carry the Dallas Street branch of Fairy creek and this crosses under the Motorway via a three cell pre-cast concrete pipe. Over the years, as the Princes Motorway had been upgraded and widened, the original 1,350 mm diameter triple culvert set had been extended to take additional traffic lanes however the Northern extension was sized at 1,200 mm diameter which at times of heavy rainfall, was restricting the flow of water into the culverts causing flooding to the upstream creek valley and threatening local property and the University campus.

The project had identified the probability of one or more of the culverts becoming blocked under a one in 100 year storm event therefore the feasibility review had recommended that the pipes at the upper ends of the culvert set be enlarged to a common profile similar to the remainder of the culvert and that an inclusion of a debris barriers with vehicle access also be installed to the culvert entrance for access to undertake maintenance and routine debris clearance under the project scope.
ITS Pipetech’s submission was to develop a methodology to tunnel around the existing inlet pipes to standardise the three cells into a common profile to meet the hydraulic demands and reduce the potential for blockages and water retention in the upstream valley. Once this had been engineered, the void profile of the existing culverts had to be created and structurally lined together with the existing pipe to complete the structural rehabilitation process.

The proposal also took into consideration any potential damage to the riparian zone and the effects that this would have in regards to damage to local flora and fauna as well as designing an access down from the motorway level to the culvert level with an associated structural retaining wall.

It had been identified that any blockage of the culvert would result in significant flooding to the surrounding area during periods of high intensity rainfall with the possibility of an eventual collapse of the culvert that would risk the security of the motorway above causing possible closure and widespread traffic chaos. This section of motorway is a fundamental link between the Port Kembla industrial area and the Hume highway, with an AADT of approximately 18,000 vehicles per day of which 16% is heavy goods. Closure of this stretch of motorway would have had serious ramifications on the local economy, as well as resulting in negative exposure for the Client.

The proposal was to remove the restrictions in the head pipe, create a structural element to create a 1,350 mm void and then to reline this with a fully structural element to provide the required diameter and negate the need for extra works to maintain capacity and avoid road closures.

The proposal comprised removal of the initial 6.5 m of 1,200 mm id concrete pipework to each of the three cells and replace this with a cast-in-situ reinforced structural pipe bore. Matching the existing diameter, it could be structurally relined with a UV cured Berolina GRP liner to provide the Client with an uninterrupted free flowing three cell underpass to meet hydraulic requirements.

The initial 6.5 m of each culvert progressed from a headwall intake under the breakdown lane and inside carriageway of the North bound lanes of the Princes Highway, one of the busiest traffic highways in Australia.

The contract scope preference was to avoid any closure of the highway. In order to remove the pipes without disruption to the traffic, ITS proposed a modified tunnelling system using a three-stage heading arrangement commencing with the outer right, then the outer left before completing with the middle bore.

As the heading advanced the existing concrete pipe could be broken up and removed from the workings leaving a space large enough to facilitate casting a structurally reinforced surround to form a bore at a diameter similar to the existing downstream pipework.

Prior to this, ITS had to construct an access to the site comprising a reinforced concrete drive way with spray concrete retaining wall that was built to allow plant movements to the tunnelling site.

The cover to the Motorway above was less than 1,600 mm above the existing pipe, with allowance for working room to build the tunnel reducing it to 1,200 mm. ITS’ designs needed to accommodate SMI600 and 45 ton axle loadings.

ITS opted for the use of our Tunneline cast insitu structural lining system to construct the three bores that were set at 1,350 mm id. to match the internal main cell diameters. Each bore was cast in a single operation using a 40 MPa structural concrete.

The final stage in the operation was to install a 1,350 mm high strength UV cured fibreglass Berolina lining through the culverts to provide the Client with a smooth bore structural lining with a design life of 75 years.

The adoption of old techniques and new technologies used in an innovative way enabled ITS to undertake and complete the works efficiently, effectively and to the Client’s specification. ITS was able to deliver the project with Zero accidents, Zero incidents, Zero lost time events, within programme, with numerous benefits and at a significant all-round saving to the Client and the community.

Website: www.itspipetech.com.au

The completed construction with the UV cured fibreglass Berolina lining in place.
In readiness for the next stage of its Anglian Water works programme, Barhale PLC has recently purchased a new JT30 All Terrain ‘Rock’ Horizontal Drilling machine from Ditch Witch UK.

The Ditch Witch JT30 All Terrain ‘Rock’ Drilling machine gives Barhale the capability to drill through a variety of challenging ground conditions. In the past, with traditional single pipe systems, the company was hindered on certain projects and would have to outsource work in order the get it completed. The Ditch Witch exclusive All Terrain System has provided Barhale with the solution to this issue by offering ‘One Machine, One System’ to successfully carry out HDD installations in a wide range of ground conditions from soil to cobbles, fractured rock and even solid rock formations. So there is no need for expensive ancillary equipment.

The Ditch Witch All Terrain ‘Rock’ Drilling system is recognised as an industry leader when it comes to rock-based installations, thanks to such innovations as an advanced dual-drill pipe system that gives operators the capacity to drill and steer simultaneously. The patented inner rod system also provides a highly efficient mechanical drive to the drill bit so operations only require minimal drilling fluid use. It also allows the drill head to be located in real time, unlike other methods where the transmitter sonde can be up to 4.5 m (15 ft) behind the drill bit.

There are three Ditch Witch ALL TERRAIN HDD units available including: the ALL TERRAIN JT30 (with 133 kN or 30,000 lb Pullback), the ALL TERRAIN JT60 (with 267 kN or 60,000 lb Pullback) and the ALL TERRAIN JT100 (with 445 kN or 100,000 lb Pullback). Website: www.ditchwitch.co.uk

Barhale takes delivery of its new Ditch Witch JT30 All Terrain ‘Rock’ Horizontal Drilling machine. Left to right: Chris Holloway (Ditch Witch UK-Sales), Stuart Windrass (Barhale-Drilling Operator), David Holloway (Ditch Witch UK-Managing Director), Mike Harris (Ditch Witch UK-Director of Sales), Barry Baird (Barhale-Works Manager).

The Ditch Witch All Terrain ‘Rock’ Drilling system uses an advanced dual-drill pipe system that gives operators the capacity to drill and steer simultaneously through a variety of difficult ground conditions.
Pipe bursting contractors now have 99 tons of pulling force for their sewer, water and gas line replacement jobs from the new, powerful, compact HydroBurst® 100XT static pipe bursting system from HammerHead Trenchless Equipment.

Featuring tethered remote control, the streamlined 100XT pays out rod very quickly due to the pipe industry’s first automated rod spinning assembly and the unique design of its hydraulic cylinders.

Alan Goodman, national sales manager for HammerHead Trenchless Equipment ram and burst products said: “The 100XT might be the only bursting machine some contractors ever need. The unit weighs just 3,200 lb (1,452 kg) and is only 39 in (990 mm) high by 30 in (760 mm) wide. It has the muscle to replace pipes up to 16 in (406 mm) diameter.” Goodman continued: “Yet the machine is compact enough that they won’t mind using it for pipes as small as 4 in (100 mm) diameter.”

The pulling machine’s water-cooled PP4500 hydraulic power pack with 72.7 hp Kubota engine pumps hydraulic fluid at up to 43.5 gpm (165 l/min) and 4,500 psi. In 50 ton mode the unit directs all hydraulic fluid to just two of the cylinders, which then can move twice as fast as in 100 ton mode.

Although some jobs will require access to the machine’s 100 ton capacity, Goodman said, jobs that require 50 tons of pullback or less mean the actual pipe burst will also be done that much faster.

Pull rod used by the 100XT is the same lightweight 2 1/2 in (64 mm), API-threaded rods used by other models.

The spinner assembly incorporated on its carriage is rated to 250 ft-lb (339 Nm) torque. The spinner allows rod to be fed from behind. As the unit is pushing during payout, rod can be added without stopping the machine.

The result is that as the unit is pushing during payout, rod can be made up, or tightened, simultaneously.

Putting the 100XT operator on the surface with remote control frees up workspace in the pit for the rod handler, permits the best view for more efficient control of the operation and also enhances overall worksite safety.

Lever-actuated controls on the puller itself facilitate initial training and orientation at the machine and provide redundant backup, ensuring job completion if for any reason the remote control cannot be used.

As static pipe bursting specialist for HammerHead Trenchless Equipment, Mark Maxwell helps to train operators on the machine.

Maxwell said: “The new unit is so user-friendly and its operating manual so clear that the customer is comfortable using the remote after a little guided instruction from me.”

Maxwell said D&D Sewer and Water, a contractor based in Canton, Michigan, USA which specialises in pipe bursting, was instrumental in the final design. “We asked D&D to rigorously and thoroughly test it in the field.” He said. “Basically, we asked them to ‘Go beat this thing up.’ But it failed to fail.” Website: www.hammerheadtrenchless.com
SAME PATH™ TECHNOLOGY FOR GAS PIPELINE SLITTING

Same Path™ technology simultaneously decommissions, replaces and even upsizes existing gas pipelines.

Simultaneously decommission and replace – even upsize – existing gas pipeline mains and services safer, faster and more economically using Same Path pipe slitting products from HammerHead Trenchless Equipment, a Charles Machine Works company. Used together with HydroGuide® winches, breakaway pin kits and the Subsite® locator, the unique new Same Path tooling offers the utility industry next-generation pipe slitting solutions. All of which are available through HammerHead Trenchless Equipment.

The patent-pending Same Path tooling utilises 3 ton to 20 ton winches to slit and replace ½ in (13 mm) to 4 in (100 mm) diameter runs of PVC, HDPE, MDPE and Aldyl-A pipe, reducing the risk of damage to adjacent utilities posed by other techniques.

Years of collaborative engineering and field testing between HammerHead Trenchless Equipment and the USA’s largest gas pipeline installer have resulted in Same Path tooling’s unique design. Same Path slitting head and expander pairings are less than half the length of bursting tools used to slit pipe. The slitting head and expander also remain free to pivot while moving. The combination of short length and flexible connection means the Same Path slitting process always follows exactly in the path of the in situ pipe, regardless of meandering bends common in plastic gas pipe installations. Same Path technology almost completely eliminates the risk of wedging, which otherwise requires unplanned excavation mid-run.

The slitting head’s four blades protrude only enough to effectively slice the pipe, reducing the risk of damage to adjacent utilities, even in congested easements.

The efficiency of the Same Path process means much less force is required for slitting pipe, even while simultaneously drawing in replacement pipe. Because the Same Path pipe slitting process uses a cable winch, it is also much faster than horizontal drills or rod-pulling machines.

Runs of up to 400 ft (122 m) have been completed in as little as 15 minutes using Same Path technology. Breakaway pin kits will not allow pull force to exceed the rated tensile strength of product pipe.

When excavation is necessary, Subsite locators are an invaluable tool to help determine exactly where to dig, and where not to.

Optional electrical strike identification devices (ESID) are also available for HydroGuide winches. An ESID instantly alerts the operator that the tooling has contacted a live electric line, prompting the appropriate emergency actions.

Alan Goodman, national sales manager for HammerHead Trenchless Equipment, said: “The advances made with the introduction of Same Path technology are key to next-generation pipe slitting. Same Path effectively reduces the risk of damage to existing utilities while replacing plastic pipe. Doing this for copper and steel pipe is the next step. That is coming.” Website: www.hammerheadtrenchless.com.
In 2011 Swiss trenchless technology manufacturer TERRA AG launched the TERRA-EXTRACTOR X 100 Cable Burster System which is now in daily operation worldwide replacing old lead water pipes, making domestic water supplies healthier. The technique uses the specially re-designed TERRA X 100 and tooling system, so unique that TERRA was able to patent the system. The system is available in the UK through Perforator Equipment Sales Ltd.

Advantages of the system include operation from a start pit of just 1.0 m x 1.0 m; a patented Quad clamping jaw which prevents the cable from slipping even when soiled during the pulling operation and the re-designed unit is now able to operate with two different diameter cables, one for cutting the lead pipe and the other for replacing the lead pipe.

In Europe there are still more than over 10 million house connections for fresh water made from lead. Lead endangers the quality of fresh water. The effective EU norms reduce the permitted lead particles from today’s 25 mg/l to the new value of 10 mg/l, which became valid from December 2013 on.

The TERRA-EXTRACTOR X 100 can replace pipe of 12 mm to 15 mm bore lead pipe using new HDPE pipes up to 63 mm diameter within a few minutes. A TERRA-EXTRACTOR X 100 can replace between 4 and 5 house connections daily. The Lead Pipe Method and the machine technology are protected by several patents.

The two-stage process starts with the first step of the Lead Pipe Method - cutting of the lead pipe. The old lead pipe is cut into three slices using a special 3-wing cutter. A second special cable is simultaneously pulled behind the lead cutter. A blocking flange is assembled in the arrival pit which prevents the old lead pipe being pulled from the ground.

The second step of the Lead Pipe Method is the new pipe pull-in. The PE pipe adapter expands the bore channel and pushes the old lead pipe slices into the surrounding ground. This is achieved with a pullback force of up to 10 tons. The new HDPE pipe is simultaneously pulled in behind the expansion adapter in just a few minutes. Website: www.perforator.net
PULL-BEHIND JET/VAC COMBO

The Ring-O-Matic 550 Dual Pump Combination Sewer Line Jetter and Vacuum Excavator gives contractors and municipalities the advantages of a dedicated, combination jetter/vacuum truck in the more versatile footprint of a compact trailer unit.

Compared to PTO-driven, truck-mounted models, the Ring-O-Matic 550’s low initial investment cost and lower operational costs have made owning a combination jetter/vacuum machine affordable even for those who do not need jetting and/or vacuum excavation services on a daily basis.

The Ring-O-Matic 550 fits into spaces too confined for truck-mounted combo rigs, yet it can clean sewer lines up to 20 inches in diameter. Its versatility makes it a practical alternative for numerous other applications, as well, such as potholing and lateral cleaning.

Powered by an 81 hp CAT turbo diesel, the Ring-O-Matic 550 machine features a 1,000 cfm blower and can deliver 27 gpm at 2,700 psi with its ¾-inch jetter hose. The trailer’s axles are rated to 16,000 pounds, allowing the 550-gallon spoils tank and 500-gallon freshwater tank to be easily pulled behind a suitably equipped ¾- or 1-ton truck.

Bob Zylstra, Ring-O-Matic’s engineering director, said the unit’s compact size makes it particularly attractive not only to smaller municipalities but also to larger cities looking for a utility combo jetter to complement their truck-mounted units. “Its low profile offers a 2- to 3-foot height advantage over truck-mounted units. It’s less than half their weight and it’s narrower. This makes it easier to use in tight alleyways with overhead obstructions, with less potential for damage to soft asphalt or brittle cement pavements.”

In addition to its versatility, Ring-O-Matic CEO Brian Metcalf believed the trailer-mounted Ring-O-Matic’s price-point has now offered the advantages of jetting to customers who could not previously justify purchasing jet-vac equipment. “Customers will quickly learn that although they acquired their Ring-O-Matic 550 with one purpose in mind, they’ll see many other applications they can use it for.”

Website: www.ring-o-matic.com

Support the UKSTT - Join the trenchless revolution: www.ukstt.org.uk

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McELROY RELEASES BIGGEST TRACSTAR®

The release of the TracStar® 1200 brings the largest pipe fusion capability to date in McElroy’s popular line of self-propelled, track-mounted fusion machines.

The TracStar 1200 has many of the same benefits that make its smaller models work so efficiently on jobsites, but there are some major upgrades as well.

It features an advanced emission control engine that burns ultra-low-sulphur diesel to meet the EPA’s latest Tier 4 standards. The cowling has also been redesigned so that technicians have better and quicker access to the engine for maintenance.

“The TracStar line was quickly embraced when it was launched 18 years ago and its design continues to improve based on the input we receive from the field.” said President Chip McElroy of McElroy. “The ability to propel the machine from joint to joint has always been a major selling point and this feature will help meet the growing demand for fusing large-diameter pipe.” he said.

The TracStar 1200 butt fuses pipe from 16 in to 48 in o.d. (450 mm to 1,200 mm) and can traverse most any terrain including mud, loose soil, snow and grades up to 30%. It is self-contained with an on-board generator for powering the hydraulic pivoting heater and facer. The 3 or 4 jaw convertible carriage is easily removable for in-ditch use.

Other new features include hydraulic outriggers for machine stability and levelling, an ergonomic operator platform and remote engine stop/start capabilities. Website: www.mcelroy.com/fusion

The TracStar® 1200 brings the largest pipe fusion capability to date in McElroy’s popular line.
UKSTT NEWS

STEVE KENT - OUTSTANDING CONTRIBUTION AWARD

During the UKSTT’s Policy & Strategy meeting on the 15 October 2015, Steve Kent became the first retired Chairman to receive the UKSTT’s ‘Outstanding Contribution’ Award for his leadership and many contributions to trenchless technology in the UK. This is a newly created award, which is presented by the Society's current Chairman to retired, ex-Chairmen of the UKSTT who have been instrumental in the formation of the Society and in the promotion and advancement of trenchless technology in the UK. Steve joined the Society, 20 years ago in 1995 and served as Chairman during 2007 - 2009.

UKSTT AT THE INTERNATIONAL NODIG LIVE - ISTANBUL

On Sunday 27 September the ISTT held its Annual Board meeting at the WOW Convention Centre in Turkey. During the board meeting UKSTT presented an interest to host the 37th ISTT International No-Dig 2019 between the 7 and 9 October 2019 in London. UKSTT has selected Westrade Group Ltd as the preferred PCO and business partner.

Don't forget! UKSTT members are entitled to access the services on the ISTT website including free downloads of technical papers and reports from the Technical Resource Centre TRC. Please contact admin@ukstt.org.uk for your password.

GETTING TO KNOW OUR NEW CORPORATE MEMBERS......

Trenchless Solutions Ltd - A No-Dig contractor working throughout the UK and Ireland. The company offers advice and expert solutions working with clients from conception through to completion. Clients can rely on the company’s expertise for safe, innovative and cost-effective underground installations including installations for: Drainage, Water, Gas, Communication, Electric, Chemical, beneath : Roads, Rivers, Buildings, Structures, Existing services, Gardens, Driveways etc. Website: www.trenchlesssolutions.co.uk

OTHER NEWS & EVENTS

JOINT UKSTT/PIG TECHNICAL EVENING - Durham 16th February 2016. Details are currently being finalised.

NO-DIG ROAD SHOW - 8th March 2016 - Belfast. Details are currently being finalised and further details will be issued shortly.

FLOODEX

Held between 11 and 12 May 2016 at the Peterborough Arena, FLOODEX is the trade event for flood defence and the water level management (WLM) sector looking at flood defence, prevention, mitigation and drainage. Website: www.floodex.co.uk

NO-DIG LIVE 2016 - returns to Peterborough Arena, between 20 and 22 September 2016. Following the success of NO-DIG LIVE held in September 2014, the 13th biennial trenchless technology exhibition, outdoor demonstrations and seminars will return to Peterborough Arena, 20-22 September 2016. Website: www.nodiglive.co.uk

UKSTT MEMBERS NEWS

PMP MOVE AND CHARITY DAY

PMP Utilities Ltd, is a family run business originally founded in 1983. With over 30 years’ experience of safe working in high risk confined spaces and providing bespoke engineering solutions, it is regularly approached to find new and innovative solutions to difficult, 'one-off' mechanical engineering problems. In July 2015, PMP moved to new purpose designed headquarters in The Network 65 Business Park in Burnley.

The 16,000 sq. feet new premises houses an engineering workshop, equipped for bespoke milling, turning, welding and fabrication, along with large secure internal and external storage for our plant and equipment, including dedicated stock of AMEX-10 seals, PMP’s unique pipeline repair system. The new headquarters also contains purpose built mobilisation and welfare areas, as well as new offices and training facilities.

However, the ongoing investment does not just stop at the new facilities or the continued investment into specialist plant and equipment, such as BA compressor equipment and welfare vans for remote site locations.

Additionally, PMP believes it is critical to think about the growth of the company and consider forward planning, particularly through the investment into apprenticeships. With over 120 years’ worth of combined experience within PMP’s management team, the business has a vast range of specialist knowledge to pass on to it’s apprentices as part of a structured training programme.
Training in areas such as rescue techniques and specialist engineering, which can all be carried out within confined spaces are an important part of PMP’s apprenticeship programme, alongside more traditional engineering qualifications – all of which will enable such apprentices to make a significant contribution to the future of the company.

Sean Haynes, Contracts Director commented: “As PMP offers a range of varied and specialised services into Water, Gas, Power and Processing Industries, that have to be absolutely right first time, we have a need and responsibility to invest in our people and ensure our teams are fully trained and ahead of regulations, standards and expectations. The ability to carry out in house training that covers both class room and practical work is a significant advantage within our industry. We see the investment into our new engineering workshop and head office facilities, alongside the take on of new apprentices as a way of ensuring that we have a skilled workforce, both now and in the future.”

Steve Taylor, Joint MD of PMP said: “The considerable investment into PMP’s facilities and workforce highlights our continued commitment to support our clients throughout all the industries we serve. It provides our clients with even greater certainty in our capability and allows us to take advantage of new opportunities for growth within AMP6 and across all industries.”

PMP Utilities Limited are specialist engineers working in confined spaces which has distinguished PMP’s success in inspection, maintenance and repairs for the water industry for over 30 years. The company has an excellent reputation for fast response to emergency call-outs and for carrying out work safely, on-time and with a ‘can do’ attitude.

Further to this PMP hosted its bi-annual Charity Golf Day at the Worsley Golf Club on 17 September 2015 as part of its fundraising campaign for Cystic Fibrosis Trust. Clients from the industries that PMP specialise in which include gas, water and process, attended and started the day with bacon rolls and coffee. The teams moved to the Golf Course where they played a 10 hole Texas Scramble followed by an afternoon of 18 holes of golf with nearest the pin and longest drive competitions, of course with refreshments along the way! After a long but dry day on the course, players headed back to the clubhouse for some much needed refreshments, before a 3 course dinner, charity raffle and comedians finished the day off.

Prizes donated by PMP suppliers included a helicopter ride, signed and personalised Wayne Rooney England shirt and a stay in the Marriott Hotel for two. Everyone dug deep to raise much needed funds for the Cystic Fibrosis charity and as a result, PMP was delighted to have raised over £800.

Cystic Fibrosis is a life shortening genetic disease that slowly destroys the lungs and digestive system. The grandson of PMP director, Steve Taylor, suffers from this debilitating disease, so CF Trust is a cause close to the hearts of all at PMP.

Steve Taylor said: “The day is a fantastic opportunity to get our key clients together and enable them to interact with ourselves and each other in a relaxed atmosphere. We met old and new friends and caught up on news, as well as engaging in some good humoured competition on the golf course. Raising such a large amount for CF Trust was a real bonus, and will make a difference to all those who are affected by the disease.”

A GLOBAL FIRST FOR MORRISON UTILITY SERVICES AND LRQA

Morrison Utility Services (MUS), the leading utility services provider in the UK, has been presented with the Statements of Verification to FDIS/ISO 9001:2015 and FDIS/ISO 14001:2015 by LRQA (Lloyd's Register Quality Assurance).

Morrison Utility Services is the first organisation globally to be awarded such a statement to the Final Draft of these standards, which are undergoing final approval before estimated publication later in 2015.

Presenting these awards to Chief Executive Charles Morrison, Chief Operating Officer Jim Arnold and Group SHEQ Manager Peter Zelenovic, LRQA representative, Richard Crute Morris paid tribute to their achievement: “Morrison Utility Services is very fortunate to be a business that embraces change and improvement. This culture has enabled such an early adoption of the new standards.”

Richard continued: “Obtaining the transitional verification is a milestone in the progression and development of the systems and processes that Morrison Utility Services has embraced to drive improvement within this business.”

Charles Morrison, Chief Executive of Morrison Utility Services commented: “In pursuit of operational excellence we have developed a working culture that is underpinned by safety and sustainability. In collaboration with our clients, supply chain partners, industry associations and, of course, LRQA, we have established a business management system that will continually drive improvements and ensure we are well positioned to support our clients’ business objectives by delivering safe, cost-efficient and quality operations.”

The transition assessment covered a range of areas required to address the changes and enhanced elements of the new standards, specifically: Context of Organisation – what are we here to do; Leadership – how does top management drive and interact with the business systems; Planning – how does this all fit together; and Performance – the measures and key performance indicators.

MORRISON UTILITY SERVICES DEPLOYS YR FREE TECHNOLOGY

Morrison Utility Services (MUS), the leading utility services provider in the UK, is deploying cutting-edge, real time audio and video data capture technology for mobile to deliver more efficient lines of communication and faster information transfer between its back-office personnel and onsite operational teams.

Trialled in Yorkshire, the YR Free app will deliver significant operational advantages including the capacity to provide live,
direct feeds to back office teams, paving the way for multiple caller interaction and real time operational analysis and collaboration.

As well as reducing site visits and travel time and speeding up works completion, the app could also serve to reduce the costs associated with fines or compensation resulting from overrunning works. Video footage, and all other related information (time, date, GPS location etc.), is uploaded automatically to a robust enterprise media hub, ensuring that data is easily, legally and compliantly gathered and securely available for future use via features such as interactive bookmarks and easily navigable visual reports.

Andy Carter, Director of Business Process Improvement, Morrison Utility Services, commented: “At Morrison Utility Services, we have recognised for a long time the power of photographs to really capture what we uncover while working on the nation’s utility infrastructure. Now, with the advent of the latest file compression software, we can truly see live, high quality video images of the pipes, cables and other assets being uncovered by our site teams. We have been working closely with YR Free to translate the application of its software from the insurance industry to the utilities sector. It gives us the ability to maximise efficiency and deliver real benefits for customers; resolving issues in real-time instead of having to delay jobs while we seek approval or advice from off-site specialists. I am delighted to see this latest technology already in use by our site teams.”

**MORRISON UTILITY SERVICES SHOWCASE EVENT**

Morrison Utility Services (MUS), the leading utility services provider in the UK, recently welcomed over 100 senior utility sector representatives to its 2015 Customer Service and Innovation event.

Held at the London Film Museum in Covent Garden, the event provided delegates with an insight into Morrison Utility Services’ approach to customer service excellence. Attendees were able to view a range of cutting edge, customer service-led innovations, either under development or already in use across the utility sector, whilst keynote speakers on the day included futurologist Jane Young and change management expert Simon Walker.

Delegates were also able to visit the Museum’s Bond in Motion exhibition featuring the world’s largest official collection of original James Bond vehicles.

Charles Morrison, Chief Executive, Morrison Utility Services, commented: “With the advent of RIIO and SIM we have seen new incentive mechanisms coming into play that are driving greater performance in customer and stakeholder satisfaction. Across our organisation, and those of our clients, the focus on delivering customer service excellence through innovation continues to flourish and this event showcased some of our best in-house solutions, as well as a selection of our service partner initiatives, many of which we have co-developed. By driving cultural and behavioural change, and drawing on best practice from across the utility sector and beyond, we will continue to optimise our service offering and enhance our customer satisfaction performance.”

**LANES GROUP TACKLES FATBERG BENEATH REGENT STREET**

Lanes Utilities has removed a fatberg from a sewer beneath one of the world’s top class shopping destinations to keep the tills rolling and the shoppers happy.

Some retailers along Regent Street in London’s West End had reported drain problems, prompting Thames Water to send an emergency team from Lanes Utilities, part of Lanes Group, to investigate.

They found that a block of fat and other debris weighing more than a tonne had built up at a critical point in the sewer that runs under Regent Street. This then caused waste water to back up into some connecting drains.

In a three-hour operation, the team removed the fatberg and cleared the sewer, allowing it to run freely again, which cured drainage problems experienced by the retail businesses above.

Field Manager Craig May, who led Lanes Utilities’ fatberg-busting team, said: “This was a relatively small fatberg by the stands of some that we have discovered. But it was causing a nuisance, and had to be removed. It had built up at a weir in the sewer, where the Regent Street Sewer drops about 15 metres down to connect with a deep-level trunk sewer. The fatberg was about a metre wide, a metre high and about a metre long. We had to dig it out with shovels, and take the debris back to the manhole, where some of it could be vacuumed up to the surface using one of our jet vacuumation tankers. Larger lumps were lifted out in buckets.”

The team was under pressure to unblock the sewer as quickly as possible to minimise inconvenience for road users and shoppers and to reach the sewer manhole, they had to close one lane of Regent Street.

As Thames Water’s sole wastewater maintenance contractor, Lanes Utilities is regularly tasked with tackling fatbergs where, in London, specimens have been found weighing more than 15 tonnes and more than 100 metres in length. They are caused by a build-up of fats and oils, plus other debris, such as sanitary products and wipes, which are wrongly disposed of down sinks, drains and toilets.

Tackling the issue costs Thames Water over £1 million a month and it has an ongoing campaign - Bin it, Don't block it - urging water customers and the public not to use drains to dump materials and objects that have no place in sewers.

Fatbergs are at the extreme end of a constant battle to keep drains and sewers running freely, with Lanes Group engineers clearing more than 300,000 blocked pipes for Thames Water every year.
As well as fats, oils, sanitary products, and wipes, they regularly find other wrongly disposed of products down drains, including plasters, bandages, ladies’ tights, and babies’ nappies.

A six person team was deployed to clear the Regent Street fatberg, kitted out with respirators and full breathing apparatus to guard against the potentially deadly poisonous gases that can gather in sewers.

Four drainage engineers worked below ground, while two others formed a rescue team at the surface, in regular radio contact, to ensure those working below remained safe.

The Victorian brick egg sewer, constructed in the 1800s, is 1.2 metres high and just under 1 metre wide, and takes both surface water and foul water away to be treated.

Craig May said: “The Victorian sewer system under London is in good structural condition for its age, and Thames Water spends a lot of money maintaining it, so it is still good at its job. However, there are some pinch points where fatbergs can build up, and this was one of them.”

DAVE COCKERILL APPOINTED TO BOARD OF ACOUSTIC SENSING TECHNOLOGY

Acoustic Sensing Technology is delighted to announce the appointment to their main board of Dave Cockerill in the role of Business Development Director.

The company supplies highly specialised software which enables those charged with the upkeep and maintenance of the nation’s drain and sewer networks to undertake surveys of underground pipes far faster and more cost effectively than by using traditional methods such as CCTV. Data collected is then stored for further analysis to help improve network management and better target capital expenditure, whilst minimising future blockage events.

The company recently secured external investment in its business from the North West Fund for Energy and Environmental managed by 350 Investment Partners and its primary hardware platform, the SewerBatt™, has been demonstrated by a number of the major utilities in the water and transport sectors as being of major benefit to their business operations.

Executive Chairman for Acoustic Sensing Technology Harvey West was delighted to announce the appointment saying: “Being innovative as a company and having great products is only half the story. As our business growth accelerates rapidly it is also vital for us that we have people around the Board table who understand what a customers’ needs really are, and that can help us then work more strategically with them to help deliver those. Dave brings a wealth of experience with him in working in this way and we are delighted to appoint him to the Board”.

Commenting on his appointment Dave added; “It was obvious from when I first got involved with the SewerBatt™ project, that it had a valuable offering to those charged with the upkeep and maintenance of the nation’s sewer and drainage network, and it is not difficult to see why it is being taken up by so many organisations. I am really excited about what we have achieved so far, but more so about what the potential is going forward, not only here in the UK but overseas also.”

ISTT AFFILIATED SOCIETY NEWS

TRENCHLESS ASIA 2016

The 8th event in this series and for the first time will be held in Kuala Lumpur at the Convention Centre in May 2016. The spotlight will be on Kuala Lumpur as, for the first time, it hosts 2016’s most prestigious and exciting forum for trenchless technologists in Asia. Significant advances have been made in the use of trenchless technology in Malaysia in recent years and pressure from authorities has been placed on contractors to use these modern engineering methods to minimise disruption during the installation and refurbishment of underground services. This is a developing global industry. Products and techniques are reviewed and improved on a regular basis and new innovations are proven to enhance performance. Further information can be found at www.trenchlessasia.com

NO-DIG MOSCOW is being held between 26 and 28 April 2016 at the Exhibition Center VDNH, Pavilion 75 - Moscow - Russia. For updated information please visit www.nodig-moscow.ru

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The 1st Trenchless Romania is the region’s only conference and exhibition focusing on Trenchless Technologies.

Trenchless Technologies are pioneering techniques which combine economic efficiency and environmental protection thus providing a modern approach for the installation, replacement or renewal of all underground utilities from, water, sewer, gas, and industrial pipelines to electrical conduit and fibre optics with minimum excavation and surface disruption.

Trenchless Technologies are particularly favourable construction methods in urbanised areas with heavy vehicular and pedestrian traffic and numerous existing underground utilities. They are also an optimal solution for crossing roadways and other transportation corridors as well as rivers and waterways.

Trenchless construction methods can also be used to install, rehabilitate or replace underground utilities located in environmentally sensitive areas and locations where surface access may be restricted due to the existence of structures or vegetation. Often, trenchless techniques are the only viable construction option. Trenchless techniques are also often the least costly option as well as the least disruptive.

This new event will showcase machinery, products and services from international manufacturers and providers attracting top quality audiences from around the region whose aim is to expand their knowledge and experience the latest technologies for the installation and refurbishment of underground utilities. Website: www.trenchless-romania.com
NO-DIG LIVE 2016 - OPEN FOR BUSINESS

Plans are already underway for the 13th NO-DIG LIVE which will take place between 20 and 22 September 2016. Presenting an exhibition, outdoor demonstrations and educational seminar programmes, NO-DIG LIVE returns to Peterborough Arena which proved to be a highly successful location in 2014.

Held every two years, NO-DIG LIVE is the UK’s premier event focussing on trenchless technology, showcasing a range of equipment and products which are utilised in the installation and renovation of underground utilities, with minimum surface disruption. Exhibitors are regularly drawn from a wide spectrum of the industry, both from the UK and overseas. In 2014 more than 100 companies were represented both from the UK as well as from six overseas countries. Exhibition space is now on offer for next year’s show and organiser, Westrade Group Ltd, is already reporting brisk business, particularly from many repeat exhibitors wishing to secure prime exhibition space.

A major attraction of NO-DIG LIVE is the outdoor demonstration area which is a huge draw for visitors wishing to see equipment in action. A variety of demonstrations will be held throughout each day and will feature a variety of different technologies such as HDD, pipe bursting, pipe cutting, pipe lining, jetting, vacuum excavation and CCTV to name but a few.

The outdoor exhibition/demonstration area has been expanded for 2016 to accommodate an increasing demand for space. Conveniently situated immediately adjacent to the main indoor arena, outdoor space is already at a premium.

In addition to the exhibition, visitors will be able to attend the popular early morning Breakfast Briefing seminar programmes. These free to attend programmes are organised by UKSTT and offer delegates the opportunity to join seminars on different topics. They are held daily from 08.30 until the exhibition opens to trade visitors at 10.00. Daily UKSTT Masterclasses will also be available providing an exciting initiative to offer educational ‘taster’ sessions on specific topics as well as Onsite training available by industry experts.

NO-DIG LIVE is staged with the valued support of the UKSTT in conjunction with its prestigious industry patrons including Bristol Water, Bournemouth Water, National Grid, Severn Trent Water, Sutton and East Surrey Water, United Utilities and Wessex Water. Free entrance is offered to all industry visitors. Website: www.nodiglive.co.uk

INTERNATIONAL NO-DIG FORWARD PROGRAMME

The ISTT’s 33rd International No-Dig took place between 28 and 30 September 2015 and was for the first time hosted by the Turkish Society for Infrastructure and Trenchless Technology (TSITT) in Istanbul.

At the ISTT Board meeting held on the eve of the conference, Chairman Derek Choi confirmed that the next annual event will be held in Beijing, between 10 and 12 October 2016 and will be hosted by the China Society for Trenchless Technology (CSTT).

It was also confirmed that the International No-Dig 2017 event will be held in Medellin, Colombia between 25 and 27 September 2017, hosted by the Colombian Society (CISTT). Voting also took place for the 2018 venue, with bids received from Finland, Romania and South Africa. The majority vote was for South Africa with the event being held in Cape Town, hosted by the SASTT in September 2018. The SASTT’s bid, presented by its Chairman Sam Efrat, highlighted the extensive trenchless projects both in South Africa and nearby countries, offering the industry exciting new export opportunities in this region.

Next year’s event, International No-Dig 2016, will be organised by the CSTT and will be supported by UK-based Westrade Group Ltd which has been appointed as sales agents for Europe.

Westrade is also confirmed as the organising PCO for 2017 in Colombia, as well as South Africa in 2018.

Westrade Group’s experience of organising International No-Dig events is second to none. The company organised the very first International No-Dig in 1985 in London and has subsequently gained worldwide experience organising nearly 100 trenchless events in many overseas locations including South East Asia, Middle East, Africa and Europe. Within its portfolio, Westrade has
organised the ISTT’s international event four times in the UK, as well as in Singapore 2010 and Madrid in 2014.

Westrade Group’s Managing Director, Paul Harwood commented: “I am delighted that Westrade has been offered the opportunity to collaborate with the Societies from China, Colombia and South Africa to deliver the next three international ISTT events. We will look forward to working with the international suppliers looking to maximise their overseas sales and marketing, as well as the host countries in sharing our expertise in delivering top quality meetings for the ISTT’s annual forum.”

Website: www.westrade.co.uk

NO-DIG ROAD SHOW BRISTOL DRAWS CAPACITY ATTENDANCE

The NO-DIG ROAD SHOW which was held in Bristol on 20 October, 2015 was attended by a capacity audience of nearly 100 delegates.

The technical programme was compiled by UKSTT and featured a varied programme of presentations which gave a rounded update of the latest technologies along with practical case studies of different technologies.

The morning session kicked off with a presentation by Julian Britton, Wessex Water’s Rehabilitation Manager. Reporting from a client’s perspective, Julian gave an insight into how Wessex has researched and implemented trenchless technology over a number of years. Projects have included some major sewer relining and renovation projects which have resulted in some impressive financial savings, as well as huge environmental benefits.

Following this, Dan Watson of McAllister Bros gave an overview of Pressure Tight UV Lining and Roland Waniek of IKT highlighted their latest research into Liner Testing.

The morning coffee break was an opportunity for delegates to visit the 18 trade stands where a range of organisations displayed a range of products, many of which were also included in the seminar programme case study sessions. In addition to the indoor displays, delegates were able to view McAllister Bros’ new UV lining truck and Steve Vick’s trailer presenting repair solutions. Further breaks for lunch and in the afternoon were also opportunities for delegates to continue dialogue with the representatives on hand to discuss their individual projects and potential application of the products exhibited.

The second session continued with a report from Paul Woolvine on 3M’s plans for Implementing Insitu Pipe Lining for Rehabilitation during the AMP 6 Programme. This was followed by Mark Lusher’s presentation on Rehabilitation of Large Diameter Sewers and Chuck Hansen of Electro Scan, demonstrating Pre and Post Liner Assessment using Low Voltage Conductivity Testing.

The afternoon programme included Simon Marsh of Naylor Drainage Ltd who gave a case study on the company’s Natural Vitrified Clay Pipe Materials. Firmino Barbosa of RelineEurope followed with a presentation on the Abrasion and Chemical Resistance of GRP UV Curing Liners.

The final session featured Stefan Trumpi of Jackcontrol’s update on Hydraulic Joint, Pressure transmission ring for Microtunnelling Pipes. The concluding presentation was given by Jim Albarella of TT-UK on Horizontal Directional Drilling.

Organiser Westrade Group Ltd reported that feedback from delegates has been extremely positive with many complimentary comments that the seminar programme was highly beneficial, being a relevant and practical opportunity to hear about new and developing technologies. The exhibitor displays were also notably appreciated with particular reference to the benefit of engaging with exhibitor representatives to discuss a variety of products.

The NO-DIG ROAD SHOW programme is organised by Westrade Group Ltd in conjunction with UKSTT. The next event in this series will be held in Belfast on 8 March, 2016. Website: www.westrade.co.uk

Both morning (above) and afternoon (left) seminar sessions at the No-Dig Roadshow in Bristol were filled to capacity, as was exhibition hall.
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.
Trenchless Asia 2016
9-10 May 2016

9th International Exhibition and Conference on Trenchless Technology
Kuala Lumpur Convention Centre, Malaysia

The spotlight will be on Kuala Lumpur as, for the first time, it hosts 2016’s most prestigious and exciting forum for trenchless technologists in Asia.

Featuring:
- Trenchless Technology
- Underground Infrastructure
- Pipeline Technologies

Contact Paul Harwood today:
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www.trenchlessasia.com
EVENTS AND MEETINGS

2015
November 17-19
**Trenchless Technology Road Show** - Vancouver, Canada.
Details from: [www.trenchlessroadshow.ca/](http://www.trenchlessroadshow.ca/)

December 1-2
**STUVA Expo 2015** - Dortmund, Germany.
Details from: [www.stuva-conference.com](http://www.stuva-conference.com)

2016
February 3-4
**UCT 2016** - Atlanta, USA
Details from: [http://uctonline.com](http://uctonline.com)

March 8
**NO-DIG Roadshow** - Belfast, UK
Details from: [www.westrade.co.uk](http://www.westrade.co.uk)

March 20-24
**NASTT 2016 No-Dig Show** - Dallas, USA.
Details from: [www.nastt.org/no_dig_show](http://www.nastt.org/no_dig_show)

April 11-17
**Bauma 2016** - Munich, Germany
Details from: [www.bauma.de/en](http://www.bauma.de/en)

April 12-14
**No-Dig Poland 2016** - Kielce - Cedzyna, Poland
Details from: [www.nodigpoland.pl](http://www.nodigpoland.pl)

May 9-10
**Trenchless Asia 2016** - Kuala Lumpur, Malaysia.
Details from: [www.trenchlessasia.com](http://www.trenchlessasia.com)

May 18
**Trenchless Romania** - Bucharest, Romania
Details from: [www.trenchless-romania.com](http://www.trenchless-romania.com)

May 30-June 3
**IFAT** - Munich, Germany
Details from: [www.ifat.de/en](http://www.ifat.de/en)

August 20-21
2016 International Symposium on Advances in Materials Science (IAMS 2016) - Shanghai, China.
Details from: [www.iamsconf.org](http://www.iamsconf.org)

September 20-22
**No Dig Live 2016** - Peterborough, UK
Details from: [www.nodiglive.co.uk](http://www.nodiglive.co.uk)

2017
March 28-31
**Wasser Berlin International** - Berlin, Germany
Details from: [www.wasser-berlin.de/en/](http://www.wasser-berlin.de/en/)

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