



2018 Winners and commended award entries

Innovation Award

This award covers products and services that support the trenchless technology industry that shows a real application.

Winner.....

Volker Trenchless Solutions / Visser & Smit Hanab / Statoil Petroleum

JoSEPP Landfall Mongstad

Horizontal Directional Drilling (HDD) installations work on the principle drill pipes are designed to be pushed during pilot hole operations in a small bore and pulled during hole opening phases. To successfully execute the HDD in Mongstad push reaming was the only option without any possibility of maintaining tension on the drill string. The challenges facing the team had never been encountered within the HDD industry worldwide. Especially considering the drilled bore had to open up to 1219mm (48") over a distance of 800m, exiting in 300 metres of water with rock strengths of 200 mPa.

Highly Commended.....

Terra Solutions Ltd / London Underground / Alan Auld

Bank Bloomberg Place Adit Installation

Two passageway adits were installed with exceptionally restricted access for LUL as part of the construction of the new Bank Bloomberg station. The project encountered many challenges during the square-works tunnel construction including coming upon a 120 yr old buried tunnel shield and unmarked concrete piles, as well as changing ground conditions. The severe access/egress restrictions necessitated the construct of an elaborate labyrinth of lifting mechanisms and a system of lifting points, winches & pulley systems to erect the steel structure. The project was completed without environment or H&S incident, and overcame several technical challenges through innovation and design.

Commended.....

ALH Systems/ Cadent Gas

Project Bond

Strategic Valves are situated across UK gas networks to isolate sections if required to facilitate construction or during breakdown of plant. Each valve should be fitted with access points to enable monitoring of pressures & permit subsequent recommissioning. A significant number of the valves have been identified not having these access points and

therefore Cadent Gas required a cost-effective programme and methodology of retrofitting the access points utilising an innovative, less disruptive technique. ALH Systems have developed a resin based adhesive to install a drilling saddle reducing time and cost to the gas networks to enable installation of access points.

New Installation Award Water & Wastewater

This award will be presented to companies demonstrating their key roles in successful new installations of cables, ducts or pipelines using trenchless techniques.

Winner.....

South West Water Delivery Alliance H50/ Arcadis / Kier / Radius Subterra

Mayflower WTP Whitleigh Woods Slipline

South West Water (SWW) is constructing a new £60m state-of-the-art water treatment works in Devon, the company's flagship project in its 2015-2020 business plan. Mayflower Water Treatment Works will use cutting-edge treatment processes, designed and developed by leading Dutch water technology company PWN Technologies and will serve around 250,000 customers in Plymouth and the surrounding area. It is being built at Roborough Down, just outside the city, and will replace Plymouth's outdated Crownhill WTW.

Highly Commended.....

Severn Trent Water / BNM Alliance

Newark Water & Waste Improvement

Severn Trent Water are investing £60M in Newark, upgrading the sewers and water supply network throughout the town. The project, which is being delivered by BNM Alliance, will help to relieve some 400 homes and business from sewer flooding, and provide a robust water supply system which will serve the town for many years to come. Extensive no dig techniques have been employed minimising the impact of the works. The project includes a 2.8km segmental tunnel, 2km pipe-jack tunnels, 2.55km of water mains renewed by pipe-bursting and directional drilling, 6km of open cut sewers, over 10km of new water mains.

Commended.....

Mole Group, Gwynedd Council, GH James CYF & Mole Utilities

Bro Infryn Estate Water Pipe Replacements.

As part of the national assembly for Wales's programme to improve social housing standards across Wales, Mole Utilities worked with Gwynedd Council to complete an ambitious Project to install water pipes to 26 houses in North Wales. The National Assembly has begun to replace old lead water pipes and this is Mole Group's second large scale pipe installation for this project with a series of future projects planned. Working with Local contractors our team decided on a programme of directional drilling and moling to install brand new mains water pipes creating little or no disruption for residents and ensuring a supply of fresh, clean water.

New Installation Award Energy & Communications

This award will be presented to companies demonstrating their key roles in successful new installations of cables, ducts or pipelines using trenchless techniques.

Winner.....

Clancy Docwra Ltd / UK Power Networks / Joseph Gallagher Ltd / COWI

Battersea Cable Tunnel

Highly Comended.....

Nicol of Skene Ltd / Fulcrum

Allt a Bhainne

Nicol was appointed by Fulcrum to install an 8km 125mm gas pipeline to connect the Allt a Bhainne whisky distillery to the grid. The effectiveness of the Ditch Witch JT30 and JT60 all terrain drilling rigs meant over 4.5km – almost 60% - of the pipeline was installed using directional drilling techniques at no additional cost compared to standard open cut techniques. The use of directional drilling also minimised the project's environmental impact. The project proved that in certain conditions directional drilling is as cost-effective as open cut and is far more than simply a 'distress purchase' to be used only when obstacles are encountered.

Renovation Award Water & Wastewater

This award will be presented to companies demonstrating their key roles in successful pipeline renovation projects of any diameter or technique.

Winner.....

Wessex Water YLT E&C / OnSite Central Ltd / JG Pipeline Consultancy / Trenchless Opportunities Ltd

Christchurch Rising Main CIPP Pressure Lining

There has been an enthusiasm for force main CIPP lining in mainland Europe for many years, yet relatively few have been installed in the UK's sewerage sector since Eric Wood's concepts in the mid 1970's. With the advent of ISO 11297 : 2018 as a manufacture and installation specification, Wessex Water believe the time is ripe to invest in the understanding of the design and procurement of pressure liners. The Christchurch STW liner completed with our framework contractor Onsite Central Ltd, is the first of any note, and the precursor of many more planned and reactionary lining interventions to come.

Highly Commended.....

The tomato Plant Company Ltd/ Heathrow Airport Ltd/ McAllister Group

BC101 CPS1526 Surface Water Renovation LHR

The Tomato Plant Company Ltd led the project in partnership with McAllister Group to facilitate and install 139m of 1133mm diameter UV GL13 liner 11.9mm thickness to renovate an existing critical SWS in very poor condition airside at Heathrow Airport. Project included multiple locations completed successfully but this particular location required high risk planning regarding impact on airside operations due to size, location and potential impact. This involved complex multi-stakeholder engagement, extensive collaborative working and detailed micro planning within a very restricted operational window of opportunity and with significant implications associated with failure.

Commended.....

Nicol of Skene Ltd / Moray Estate / Scottish Water / Scottish Natural Heritage / Lorraine Logan

Glenlatterach

Flood water levels washed away an existing concrete main traversing the River Lossie, the only source of water supply for almost 5,000 properties. Scottish Water appointed Nicol of Skene to install a replacement pipe using directional drilling. The drill route involved a 58m fall through a rock ravine before passing under the River Lossie and exiting in a SSSI (Site of Specific Scientific Interest). The design had to ensure there was no pollution of the river or environmental impact on the SSSI. The complex project was completed within a month with all homes connected to a permanent mains supply before Christmas.

Environmental Award

The Environmental award will be presented to companies who can best demonstrate how the Project/Process/Product has improved environmental performance.

Winner.....

South West Water Delivery Alliance H50/ Arcadis / Kier / Radius Subterra

Mayflower WTP Whitleigh Woods Slipline

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Highly Commended.....

Wessex Water YLT E&C

Sustainable and environmentally sensitive installations via trenchless

As French President Emmanuel Macron succinctly identified whilst speaking to the House of Representatives in Washington on global warming in April 2018, 'There is no planet B'. Every possible sustainable solution to reduce the impact of our infrastructure works on the environment is necessary as the populace grows exponentially and the terra firma become congested. Wessex Water are confident that we have the safest whilst most cost effective, innovative trenchless solutions with longevity. Our adherence to detailed environmental screening protocols at planning stage and throughout the life of the networks interventions, ensure compliance with the strictest legislation.

Application of Digital Technology Award

This award will be presented to the company who can best demonstrate their use of digital technology to overcome significant challenges.

Winner.....

Catsurveys Ltd

Desktop Utility Records Search Platform

Catsurveys have created a unique, bespoke and easy-to-use online database-driven Geographical Information System (GIS) for Desktop Utility Record Searches. The systems

developed have enabled us to ensure the timely, efficient and cost-effective collation of statutory undertakers' drawings. Once an area has been requested all users of the digital system have access to download the information until expiry. A direct by-product of the system and semi-automated process is the decreased project risk and increased safety of all involved with the design, diversion, survey and excavation of buried infrastructure. A DURS pack is the first stage of planning intrusive works.

Young Professional Award

The UKSTT Chairman's award will be presented to the young professional (<30 years old) who can best demonstrate their contribution to the field of Trenchless Technology.

Winner.....

Helen Isaacs - Wessex Water

Collaboration and innovative thinking are central to modern trenchless technology. In my role as Critical Sewer Engineer I have delivered a range of rehabilitation techniques whilst maintaining a strong focus on customer care and client satisfaction. These include a Bristol GRP lining project, the Christchurch GRF CIPP rising main lining, and manhole renovation trials. I was also responsible for researching the WaterUK Styrene Protocol, which was the first protocol to address styrene emissions from CIPP lining sites, was part of a winning submission for ROSPAs Sector Award 2017, and is now an industry standard document.

Highly Commended.....

Joel Baldan - Catsurveys

My name is Joel Baldan, Commercial Lead at Catsurveys Ltd the leading utility survey consultancy in the UK & Co-founder of the Utility Survey Forum (USF) an industry leading online platform where both beginners and seasoned professionals alike can connect & share their experiences, ask questions and learn through the wealth of knowledge found within the forum community. With 6 years experience in the utility industry i'm proud to be an active STEM Ambassador to local schools and champion of PAS128 committed to promoting and bettering the industry to inspire the next generation of utility survey professionals.

Project of the Year Award

Winner.....

South West Water Delivery Alliance H50/Arcadis/Kier/Radius Subterra
Mayflower Water Treatment Works Potable Water Main - Whitleigh Woods Slipline

This Award was presented to the company whose project received the highest score out of the 'Environmental' 'New Installation' & Renovation categories overall.

Lifetime Achievement Award

The UKSTT 'Lifetime Achievement' award is being presented for the third time in the history of the UKSTT awards ceremony. This year the prestigious award is being presented to Norman Howell who has been part of the Domestic UK and International Trenchless 'family' for more than 40 years. Starting out as an Engineering Geology graduate from the University of Newcastle upon Tyne, Norman later qualified as a Chartered Geologist and Chartered Environmentalist. Starting his working career at Tarmac Construction in 1975 Norman became interested in trenchless technology in the late 1970's. Norman joined the ISTT in 1986 and has been involved in the UKSTT since its inception in 1993. In 2000 Norman joined the UKSTT Council and during the last eighteen years has served as Honorary Secretary and was Chairman from 2001 - 2003. The award of 'Lifetime Achievement' is being awarded to Norman in recognition for the services he has made to the trenchless industry and for his services and contribution to the Society.