

Improving Digital Data Entry

The latest version of KeyLogbook is released - full details inside!



Geotechnical Courses

Soil Description Workshop

23rd November 2016

Rock Description Workshop

1st December 2016

Geo Foundation Design

2nd Nov' 2016



Geotechnical Courses

In Situ Testing

19th October 2016

Geotech' Lab Testing Awareness

7th December 2016



Health & Safety Courses

IOSH Safe Supervision (3 Day)

11th - 13th January 2017

IOSH Avoiding Danger (1 Day)

2nd December 2016



IOSH Working Safely (1 Day)

11th November 2016

Other Events

Geotechnica 2017

12th & 13th July 2017

@ Warwickshire Exhibition

Centre, nr. Leamington Spa



Geotechnica 2017 Registration Now Open

Information on
Geotechnica's return to the
WEC in 2017

New Cable Percussion Guidance Released

The BDA provide details of
the latest Cable Percussion
guidance document

Biggest Ever Project for Aarsleff

Aarsleff reveal details
of their latest project in
Avonmouth

GEOTECHNICAL COURSES

SOIL DESCRIPTION WORKSHOP - £275 + VAT

@Equipe Offices, Banbury

23rd November 2016

ROCK DESCRIPTION WORKSHOP - £275 + VAT

@Equipe Offices, Banbury

1st December 2016

GEOTECHNICAL FOUNDATION DESIGN - £225 + VAT

@Equipe Offices, Banbury

2nd November 2016

21st December 2016

IN SITU TESTING - £225 + VAT

@Brunel University, London

19th October 2016

GEOTECHNICAL LABORATORY

TESTING AWARENESS - £225 + VAT

@Brunel University, London

7th December 2016



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IOSH Safe Supervision of Geotechnical Sites

This three day geotechnically focussed health and safety course has been developed by industry specialists and is a unique course for managers and supervisors involved in projects in the drilling and geotechnical industry. The course is certified by IOSH and has been approved by The Environment Agency, Thames Water, AGS and BDA and also meets all of the requirements of the UKCG (formerly the Main Contractor's Group).

NEXT COURSE DATES: 11th - 13th January 2017
15th - 17th February 2017

IOSH Avoiding Danger from Underground Services

This one day geotechnically focussed health and safety course follows the requirements and guidance set out within HSG47 and includes the four chapters; identifying and managing the dangers; planning the work; detecting, identifying and marking and safe excavation. Important aspects include the use of real examples from the geotechnical industry and delivery by chartered advisors who are from within the industry.

NEXT COURSE DATES: 2nd December 2016
20th January 2017

IOSH Working Safely (on Geotechnical Sites)

This one day geotechnically focussed health and safety course has been developed by industry specialists as a foundation to site safety for all personnel involved in projects in the drilling and geotechnical industry. Its aim is to impart the core safety skills required of those working on geotechnical sites by building on their existing specialist technical skills and making it relevant to their place of work.

NEXT COURSE DATES: 11th November 2016
23rd February 2017



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Welcome

Welcome to the 53rd Edition of **theGeotechnica** - the UK's fastest growing online geotechnically focussed e-magazine.

Revealing details of the latest KeyLogbook release in the first article of this month's issue is Keith Spires, Operations Director at the Equipe Group. Keith discusses what can be expected from the v2.6 release of the industry's leading digital data entry product.

Next up, is a look at new geotechnical software from Autodesk and Keynetix. In the last few months Autodesk have released their Geotechnical Module for AutoCAD Civils 3D 2017 following development by Keynetix. The module looks set to greatly assist with geotechnical data visualisation and Keynetix are offering free online training to accompany the release.



Our third article for this month is a brief preview of what to expect at Geotechnica 2017. Next year will mark the eighth successive year of Geotechnica and the event will have a host of new and exciting features to compliment the already highly successful and acclaimed Trade Show, Product Exhibition and Geotechnical Conference. Registration for the event is now open, so book early to avoid disappointment!

Next we have two releases from the British Drilling Association. First up the BDA reveal details of the newly published Cable Percussion Guidance which looks to help raise standards

of the practice UK-wide. Following this, the exciting news that the BDA is celebrating its 40th anniversary this year and is using the milestone to take a reflective look at its many achievements, which have progressed the profile, performance, quality and most importantly safety of the drilling sector.

Finally, providing an update on recent contract works are Aarsleff, one of theGeotechnica's valued regular contributors. In this month's issue Aarsleff reveal details their largest ever piling project to date as The Range build a new distribution centre in Avonmouth.

As with every new edition of the magazine, the Editorial Team here at **theGeotechnica** will be on the lookout for even more new, original and interesting content from all corners of the sector, and would actively encourage all readers to come forward with any appropriate and relevant content - whether it be a small news item or a detailed case study of works recently completed or being undertaken. If this content is media rich and interactive, then all the better. We are looking to increase the already large readership of the magazine through better social media integration and promotion, as well as improving content month on month.

Finally, for any content that is submitted we will ensure that an advertising space, proportionate to the quality of content provided, is reserved should you wish to place an advert in that single edition of the magazine. We hope you enjoy this month's edition of the magazine and are inspired to contribute your own content for the coming editions of **theGeotechnica**.

**Editorial Team,
theGeotechnica**

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CPD Approved Courses for Geotechnical Academy Alumni



Soil Description Workshop - £275 + VAT per person

This one day geotechnical training course is delivered by the UK's leading Soil and Rock Description expert, Professor David Norbury, and will bring delegates up to speed on the changes within the Standards and provide a detailed approach to soil description practices and techniques. The British Standards (Codes) under which investigations in the UK have been carried out continue to incorporate and mirror the European Standards. UK practice has changed to meet these new requirements and practitioners will learn about them and how to follow compliant soil logging techniques within this course.

Rock Description Workshop - £275 + VAT per person

From 2007 new European Standards have started replacing the British Standards (Codes) under which investigations in the UK have been carried out. UK working practice will have to change to meet these new requirements but few practitioners are aware of the changes or the timetable. The workshop will comprise a series of lectures on the changes, and lectures on rock description followed by practical sessions describing rock and compiling mechanical logs of rock core.

In Situ Testing - £225 + VAT per person

The course will cover both the theory and the practice of various In Situ Testing techniques used on typical geotechnical projects. In addition the courses will consider the effect that Eurocodes will have on the UK's current practice. This course provides an overview of in situ tests used in common practice and some of the more specialist tests together with their advantages and limitations.

Geotechnical Foundation Design - £225 + VAT per person

This one day course will provide a general overview of foundation design. It will include an assessment of the use and choice of shallow foundations and piles. It will cover the derivation of bearing capacity formula and their use. Exercises will be carried out to calculate the working loads and settlement of simple foundations. The methods used to calculate these will be in accordance with those described in Eurocode.

IOSH Working Safely (on Geotechnical Sites) - £175 + VAT per person

This one day course is developed by industry specialists within RPA Safety Services and Equipe Training as a foundation to site safety. Its aim is to impart the core safety skills required of those working on geotechnical sites by building on their existing specialist technical skills. After attending the course, candidates should be able to identify hazards on site, understand basic safety legislation, participate fully and confidently in site safety consultation and manage priority risks to a sufficient standard.

IOSH Avoiding Danger from Underground Services - £150 + VAT per person

Partnering with RPA Safety Services once again, Equipe provide another IOSH certified health and safety course. This one day course is aimed at anybody involved in specifying, instructing, managing, supervising or actually breaking ground and really addresses the problems and risks related to underground services, which may be encountered during both planning and execution of geotechnical projects.

IOSH Safe Supervision of Geotechnical Sites - £450 + VAT per person

Equipe has partnered with RPA Safety Services, an independent occupational health and safety specialist, to provide a unique IOSH certified course for the Drilling and Geotechnics industry. This three day course is certified by IOSH, is specifically focussed on the geotechnical industry and provides a totally unique and relevant Health and Safety course for managers and supervisors.



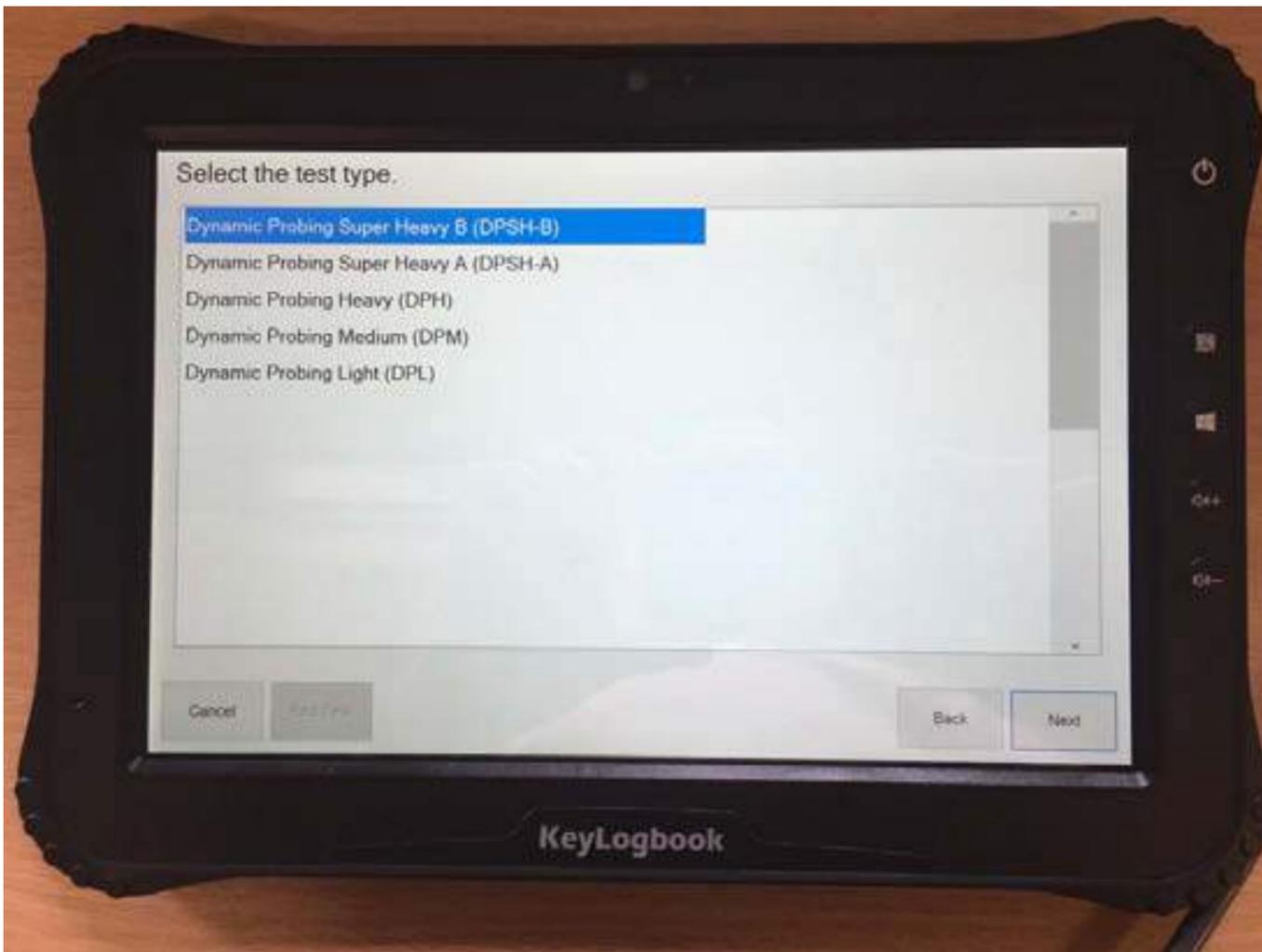
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DIGITAL DATA ENTRY GETS EVEN BETTER WITH KEYLOGBOOK V2.6

Revealing details of the latest KeyLogbook release is Keith Spires, Operations Director at the [Equipe Group](#). In the following article, Keith discusses what can be expected from the v2.6 release of the industry's leading digital data entry product.

Equipe and Keynetix are delighted to announce the release of KeyLogbook v2.6. This new release is based on extensive feedback from near 100 users of the system who provided their thoughts and a proverbial

'wish list' for the next stage of development for KeyLogbook. The potential additions and extra requirements where discussed and considered by the development team, before implementing many of the suggestions and ideas into the

new build. This new release, coupled with a new fully ruggedised tablet operating on Windows 10, has seen interest soar. KeyLogbook is now being widely used by many companies across the UK on some of the highest profile projects in recent years. This has led to a boom in contractors and consultants alike benefiting from the implementation of KeyLogbook

Enter blows for increments from 0m to 1m

0m - 0.1m	0.1m - 0.2m	0.2m - 0.3m	0.3m - 0.4m	0.4m - 0.5m
1	2	3	4	5
4	5	6	7	8
7	8	9	10	11
10	11	12	13	14

Buttons: Cancel, Test, Back, Next

“By far the biggest request for the new build was for the recording of Dynamic Probing to be included within the Dynamic Sampling section.”

into their workflow.

By far the biggest request for the new build was for the recording of Dynamic Probing to be included within the Dynamic Sampling section. Despite causing the team some headaches on data validation, the full record of Dynamic Probing has been achieved with KeyLogbook's big buttons and simple workflow being maintained. Validation of high or strange numbers has also been attained, with the full requirement of the standards on torque readings being recorded every meter, automatic adjustment of starting depths, and the normal full remarks recording form the basis of the section.

The new function also allows for the recording of all types of dynamic probe from lightweight to super-heavy (both A and B), and exports the full AGS data from the test, along with the normal PDF. Beta testers of the new KeyLogbook v2.6 have all raved at the simplicity of the workflow and the development team's efforts to achieve this should not be underestimated.

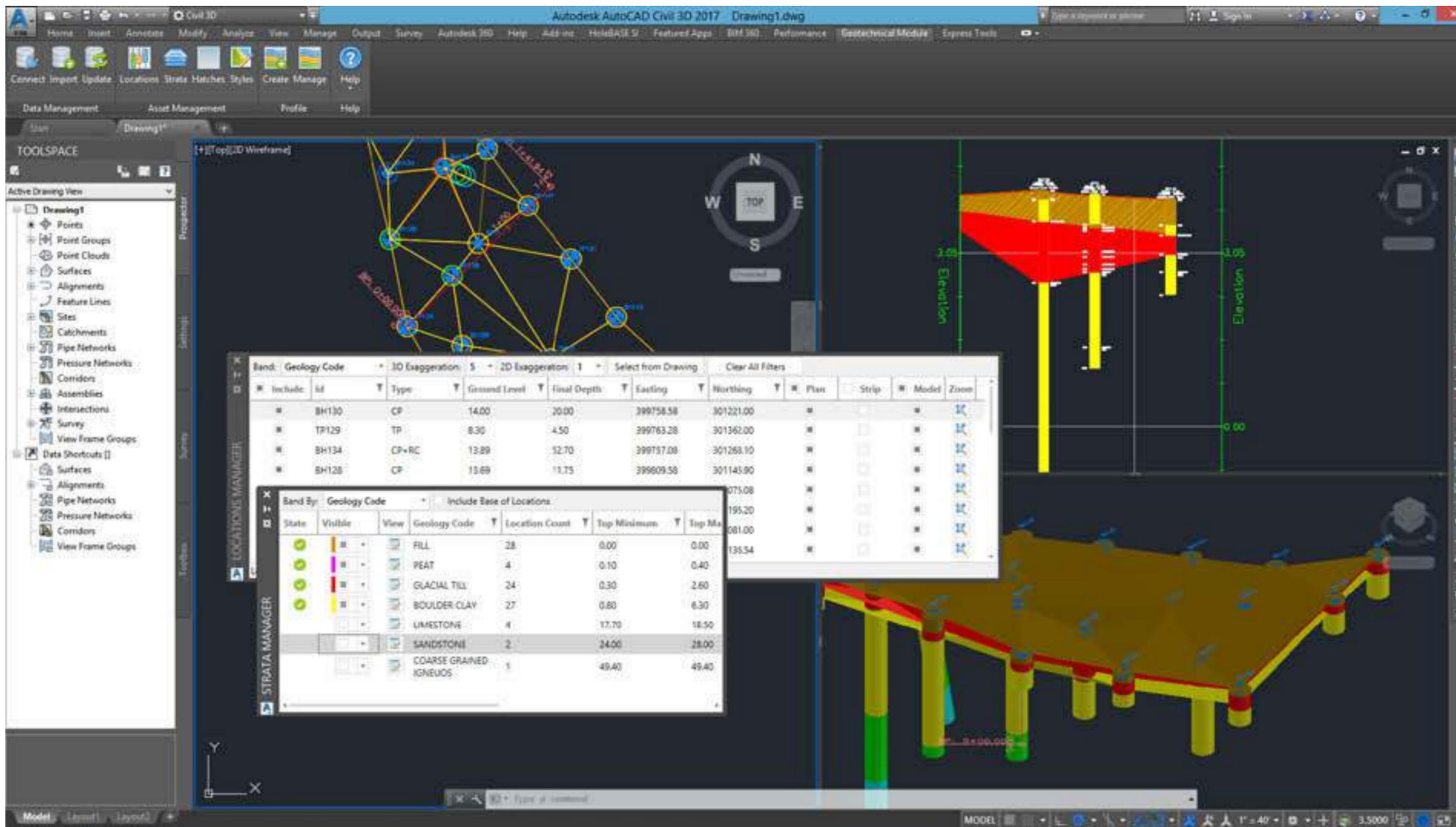
Time and money are invaluable resources, and the savings that can be made by using KeyLogbook on and around site have always been well recognised by users. As the number of users increases however, it is becoming evident that the hours of time that can be saved back at the office are being appreciated more and more. Some companies are seeing massive savings not only in the office but also the laboratory where the need for efficient and timely data delivery is just as important. Considering this, the new release of KeyLogbook has a huge amount of hidden improvements around the exporting of full AGS 3.1 data, as well as the ever increasing

demand for the current AGS 4. This instant export of AGS data has always been a fundamental part of KeyLogbook, but by improving the number of and completeness of the fields that are exported, the need for adjustments or additions to the site data is being totally eliminated, saving additional time for office and laboratory staff.

“KeyLogbook v2.6 also includes a new and improved tablet...”

KeyLogbook v2.6 also includes a new and improved tablet which comes with an integrated barcode scanner. This addition makes the recording, labelling and scheduling of contaminated samples a far more streamlined task. By scanning the chemical laboratories containers own barcodes directly into KeyLogbook, the samples and containers are permanently linked throughout their short life. The tablet also runs Windows 10 and its optimised touchscreen gives a faster, crisper feel to the data entry, while the full IP67 case gives users that added confidence in its robustness on site. ■

For all KeyLogbook rental and purchasing enquiries, get in touch with Equipe via info@equipegroup.com or call on +44 (0)1295 670990. Visit www.keylogbook.com for more details.



NEW AUTOCAD CIVILS 3D GEOTECHNICAL MODULE BOOSTS USABILITY

In the last few months Autodesk have released their Geotechnical Module for AutoCAD Civils 3D 2017 following development by Keynetix. The module looks set to greatly assist with geotechnical data visualisation and Keynetix are offering free online training to accompany the release.

Autodesk's Geotechnical Module for AutoCAD Civils 3D 2017 makes it even easier to integrate and visualise geotechnical data within AutoCAD and enables improved collaboration between project teams working with BIM.

The module, developed for Autodesk by AEC Geotechnical Industry Partner Keynetix, has been completely updated for the 2017 version of AutoCAD Civils 3D. Free to download

to existing users, it features a number of enhancements to improve usability.

"The module allows data to be viewed more rapidly, creating geotechnical sections in seconds, with standard Autodesk Civils 3D commands used to edit and manipulate geological surfaces," explained Keynetix Technical Director Gary Morin. "It will also link to Keynetix geotechnical data management software

HoleBASE SI, enabling teams to work on, and share, geotechnical data and drawings."

"The update has a number of productivity improvements, for example, it now allows borehole locations to be selected for manipulation using the drawing filter; strata are now colour coded, so they can be identified more easily, and users only have to check one box to create the top and

bottom strata surfaces."

Production drawings were now also easier to manage, Morin said. "Annotative text to borehole plans and log strips has been mapped to AutoCAD styles and is automatically adjusted to match the drawing scales."

"Keynetix is offering free online training to support the launch of the updated Autodesk Geotechnical Module..."

Autodesk Geotechnical Module Training

Keynetix is offering free online training to support the launch of the updated Autodesk Geotechnical Module, covering the essentials of the software through short videos, demo datasets, webinars and technical papers.

"The course is an excellent way for users to learn how to get the most out of the updated module," Morin said. "It is presented in 'bite-size chunks' that can be viewed over a few weeks. We can also tailor training for more advanced users." ■

The online course can be accessed for free by registering at <http://geotechnicalmoduletraining.keynetix.com/>

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REGISTRATION NOW OPEN FOR GEOTECHNICA 2017

2017 will mark the eighth successive year of [Geotechnica](#) and will have a host of new and exciting features to compliment the already highly successful and acclaimed Trade Show, Product Exhibition and Geotechnical Conference.

Keynote Presentation Area

The Keynote Presentation Area will host four Keynote Speakers across the two days of Geotechnica 2017. These speakers are yet to be confirmed, but are guaranteed to be of the very highest calibre. These presentations will take place at 10am and 2pm respectively on each day. The area itself will provide theatre-style seating, as well as more relaxed seating areas for networking and visitor relaxation. The surrounding

"In 2017 we are aiming to make Geotechnica as interactive and enjoyable as possible..."

Exhibition Stands are sure to be hotly requested, so book your place now to avoid disappointment!

Games / Entertainment Areas

In 2017 we are aiming to make Geotechnica as interactive and enjoyable as possible for all those involved. With this in mind we will be providing 'Games' areas to encourage visitor-exhibitor interaction and networking in a more relaxed

environment. We hope that these games will provide the perfect ice-breaker to not only get as many people networking as possible, but to also provide as much entertainment as possible to all those experiencing Geotechnica in 2017.

Outdoor Demonstration Areas

As a new feature for 2017 we will be providing the opportunity for exhibitors to demonstrate their services and equipment in various demonstration areas. The demonstrations will all follow a themed timeline of Ground Investigation, including surveying, excavation, borehole drilling and sampling, in-situ testing and on-site digital data capture - amongst other things. If you are interested in

demonstrating your equipment or services as an exhibitor, please get in touch on info@geotechnica.co.uk straight away as demonstration places will likely be in massively high demand.

Registration Now Open

Registration is now open for Exhibitors, Sponsors and Visitors to be a part of Geotechnica 2017. This year we are also offering discounted Exhibition Combo-Packages for Exhibitors who wish to make the very most out of the excellent opportunity that Geotechnica presents to meet new customers. ■

Full registration details can be found on the Geotechnica 2017 website - www.geotechnica.co.uk.

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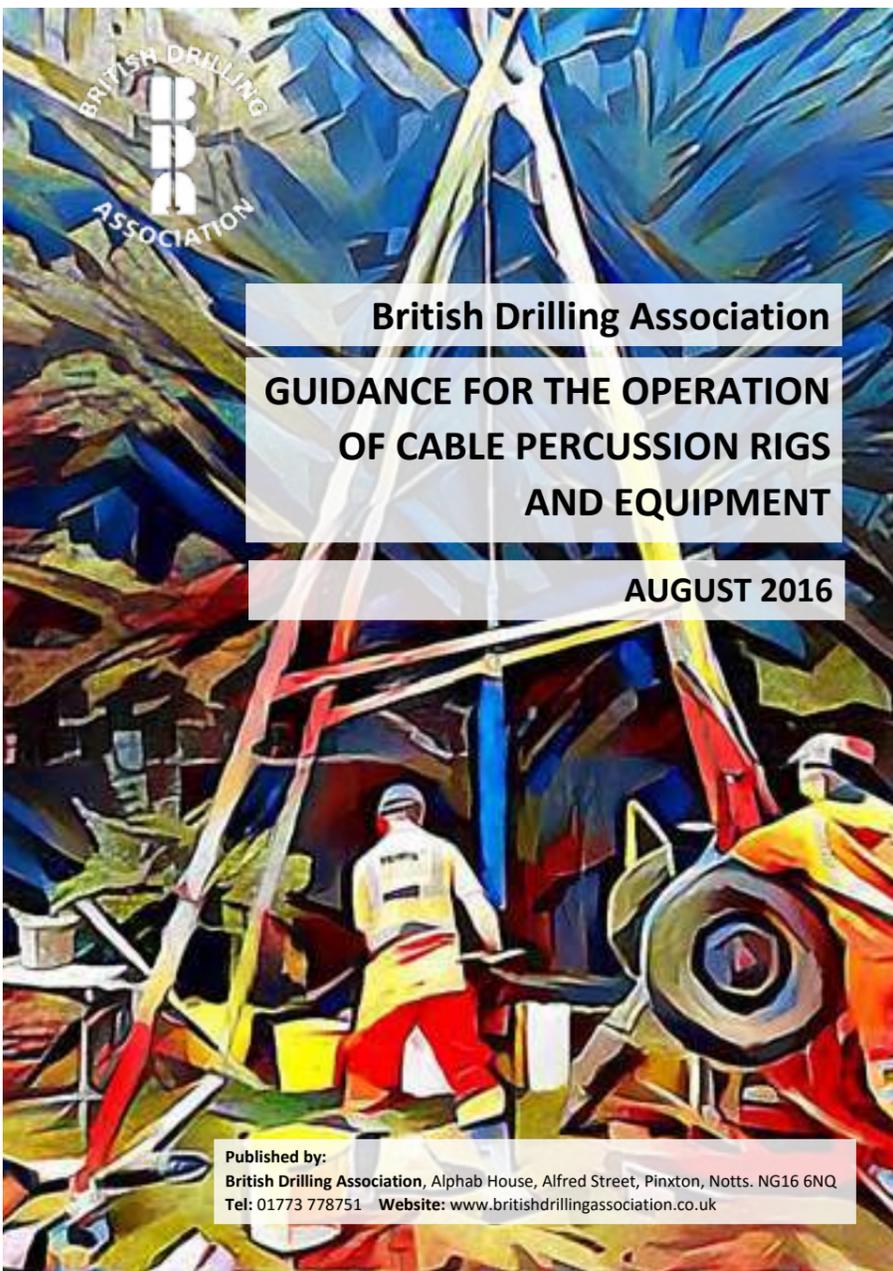
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Warwickshire Exhibition Centre



British Drilling Association

GUIDANCE FOR THE OPERATION OF CABLE PERCUSSION RIGS AND EQUIPMENT

AUGUST 2016

Published by:
British Drilling Association, Alfab House, Alfred Street, Pinxton, Notts. NG16 6NQ
Tel: 01773 778751 Website: www.britishdrillingassociation.co.uk

BDA ISSUES NEW GUIDANCE DOCUMENT - THE OPERATION OF CABLE PERCUSSION RIGS & EQUIPMENT

The British Drilling Association (BDA) has issued a new Guidance Document titled, 'The Operation of Cable Percussion Rigs & Equipment,' an update to its oldest publication and which raises the bar even higher for the standards within the drilling industry.

The document, which is available for download from the BDA website – <http://www.britishdrillingassociation.co.uk/Publications/Guidance-For-The-Operation-Of-Cable-Percussion-Rigs-And-Equipment-Free>.

“The document has been completely rewritten to incorporate the very latest methodologies and best practice...”

[to-BDA-Members-4](#) - has been completely rewritten to incorporate the very latest methodologies and best practice bringing the document right up-to-date for the drilling sector.

Reviewed and endorsed by the Health & Safety Executive (HSE) the document provides guidance on operational, technical, health & safety and environmental issues and is the authoritative publication for anyone involved in operating, procuring, organising and supervising cable percussion (shell & auger) boring.

Speaking about the document, Jon Christie, Chair of the BDA Safety Committee, said: The Operation of Cable Percussion Rigs & Equipment guidance is one of the must-read documents for anyone working within the drilling sector. It was the first document published by the BDA and has played a pivotal role in moving the drilling sector forward in all aspects of operations and safety. This this new edition builds on this platform incorporating the very latest guidance and best practice.”

This publication is free for BDA members and £150 for non-members. ■



THE BRITISH DRILLING ASSOCIATION CELEBRATES THE ‘BIG FOUR-O’

The British Drilling Association (BDA) is celebrating its 40th anniversary this year and is using the milestone to take a reflective look at its many achievements, which have progressed the profile, performance, quality and most importantly safety of the drilling sector.

The BDA was formed back in 1976 to focus on developing a unified approach to health and safety, quality of workmanship, and technical proficiency for the benefit of the drilling industry, and its clients. In the forty years that followed the BDA can claim a number of notable achievements to its credit, including the development of BS 4019 part 2, which later became the ISO Standard. It has published several guidance notes spanning Safe Drilling Contaminated Land to the Protection of Persons from

Rotating Parts, as well as introducing Land Drilling NVQ, BDA Driller Accreditation (now Audit Scheme) and a much sector-needed Apprenticeship Scheme.

From the inaugural meeting at the London Geological Society the BDA has since grown to become the voice of the drilling industry and a leading Association in the specialist contractor sector. Working collaboratively with other sectors, companies and through its membership of

“It is also an appropriate time to thank all membership for their support and contribution to the new initiatives the BDA has planned for the future.”

BuildUK at Government level, the BDA is widely respected and its members are some of the most professional within the construction industry.

Anne Baxter present BDA Chair comments: “Turning 40 is a tremendous achievement for the BDA and it presents a good opportunity to look back on just how much has been achieved on behalf of the sector by its members. It is also an appropriate time to thank all membership for their support and contribution to the new initiatives the BDA has planned for the future.”

Anne continued “The drilling and wider construction industry sectors have been through some particularly challenging times, not least the economic crisis of 2008 from which we are still only just emerging. Issues such as Brexit continue to place pressures on the sector, but working together as the BDA and through the strong collective voice it projects the drilling sector is assured the status, profile and platform to be heard.” ■

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- SAFER G can detect an object moving anywhere within a safe-guarded zone.
- Ability to differentiate between small and large objects (muds, liquids and dust particles vs. people).

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MEGA-SHED CONSTRUCTION SEES AARSLEFF UK'S LARGEST EVER PILING PROJECT

Providing an update on recent contract works are [Aarsleff](#), one of the *Geotechnica's* valued regular contributors. In this month's issue *Aarsleff* reveal details their largest ever piling project to date as *The Range* build a new distribution centre in Avonmouth.

Aarsleff Ground Engineering, recognised as one of the UK's leading foundation contractors, has been awarded its largest ever project to date, the

piling contract for homeware giant *The Range's* new mega-shed distribution centre in Avonmouth, Bristol.

The project, awarded by McLaren Construction on behalf of developer Stoford Properties Limited, commenced late July 2016 and will see Aarsleff install over 15,000no. precast piles to support both the main slab and roof stanchions of the completed structure as well

“The piles will be bearing onto Mercian Mudstone, which is typical of the strata suitable for a DPC approach.”

as a number of peripheral buildings, such as sprinkler tank bases. The majority of piles for the project will be 250mm section DPC, with the remainder being 300mm piles, with ground conditions expected to be a significant depth of tidal flat deposits. The piles will be bearing onto Mercian Mudstone, which is typical of the strata suitable for a DPC approach.

Speaking about the project Kevin Hague, General Manager at Aarsleff Ground Engineering, said: “This is the largest piling project that Aarsleff UK has ever undertaken in its 25-year history and is a tremendous vote of confidence in our precast piling solutions. It is also our first project for

McLaren Construction and given the scope of works it highlights the high degree of trust they have put in us, the result of our previous dealings with them and our industry reputation.”

The contract win was a collaborative solution, with Aarsleff assisting McLaren during its own efforts to win the project by working with them and their chosen external designers to assess the likely cost implications of various loading scenarios for the then unconfirmed roof loadings.

Aarsleff also highlighted the twin issues of both negative skin friction and the cost implications of using various joint types, which helped the client make their own successful offer in a well-informed manner as to the potential structural and geotechnical risks involved with completion of the project. ■

For more information about Aarsleff, its work on sheds or its precast piling solutions, contact Aarsleff on 01636 611140 or email info@arsleff.co.uk.

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