

# theGeotechnica

July 2015 | Issue 42

## Geotechnica



## Special Feature

An in depth look at this year's Geotechnica event, including the full Event Programme



GEOTECHNICAL COURSE DATES:  
Rock Description Workshop  
12th August, 30th Sept 2015  
Geotechnical Foundation  
Design - 16th July 2015

SEMINAR DATES:  
Geotechnica 2015 Conference  
8th & 9th July 2015



H&S COURSE DATES:  
IOSH Avoiding Danger from  
Underground Services  
31st July 2015, 4th September 2015  
IOSH Safe Supervision of  
Geotechnical Sites:  
21st - 23rd July 2015



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**Casagrande C5XP -  
Launch at Geotechnica**  
Casagrande UK reveal  
details of new rig to be  
unveiled next week

**KeyLogbook v3  
Launch**  
An exciting update for the  
digital logging software

**Rockbit uk New  
Products**  
Details of new products to  
be launched by Rockbit uk  
at Geotechnica 2015



# GEOTECHNICAL COURSES

## SOIL DESCRIPTION WORKSHOP - £265 + VAT

18th August 2015  
25th September 2015  
28th October 2015

## ROCK DESCRIPTION WORKSHOP - £265 + VAT

12th August 2015  
30th September 2015  
27th November 2015

## GEOTECHNICAL FOUNDATION DESIGN - £225 + VAT

16th July 2015  
3rd September 2015

## IN SITU TESTING - £225 + VAT

4th August 2015

## GEOTECHNICAL LABORATORY TESTING AWARENESS - £225 + VAT

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## UPCOMING COURSES IN 2015

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### [Casagrande UK to launch NEW C5XP drilling rig at Geotechnica 2015](#)

Ahead of Geotechnica 2015 we have a press release from Gold Sponsors Casagrande UK on the new C5XP, scheduled to be launched at Geotechnica 2015

### [KeyLogbook Version 3 Release at Geotechnica 2015](#)

An exciting update from the Equipe Group sees the announcement of KeyLogbook Version 3's unveiling at Geotechnica 2015. With a number of new features and improvements, Version 3 of the digital logging software looks to be the best yet.

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### [Rockbit uk - New Products for 2015](#)

A brief overview of the exciting new features set to be on display for Rockbit uk at next week's Geotechnica 2015 show, including two new rigs and a new mud magnet, plus dewatering bag.

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### [Geotechnica 2015 - Full Event Programme](#)

The full Event Programme for the return of the UK's largest geotechnical conference and exhibition, taking place on the 8th and 9th of July at the Warwickshire Exhibition Centre. Provides the full conference line-up, as well as the full listings for the exhibition.

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To register to visit for FREE at Geotechnica, complete the sign-up form found here: <http://bit.ly/geo15visitorsignup>

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### [Directory](#)

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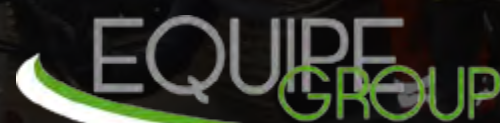


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# EQUIPE TRAINING Health and Safety Courses

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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:** 21st - 23rd July 2015  
26th - 28th August 2015

## 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:** 31st July 2015  
4th September 2015

## 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:** N/A - Contact Equipe for details.



For more information, contact Equipe Training:

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# Welcome

Welcome to the 42nd Edition of **theGeotechnica** - the UK's fastest growing online geotechnically focussed e-magazine.

This month is a special edition of the magazine, as we look forward to next week and the return of the UK's largest geotechnical conference and exhibition, Geotechnica 2015.

Featured in issue 42 of the Geotechnica this month are some press releases concerning product and service launches at next week's show, as well as the full Event Programme, providing full details of the Geotechnical Conference, The Geotechnical Academy Conference and full exhibition line-up.

Our first press release comes from Casagrande UK who provide details of their new Casagrande C5XP rig which will be launched next week at Geotechnica 2015.

Secondly we have a press release from the Equipe Group concerning the launch of KeyLogbook Version 3, set to be unveiled at Geotechnica 2015 next week. This new build of KeyLogbook has a number of new and exciting features, including the ability to log multiple holes at once on site.

Finally we have an update from Rockbit uk on their new products for 2015 - the new Massenza MI3, Pagani TGA-08 CPTu logger and the new Mud Magnet & EK dewatering bag.

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

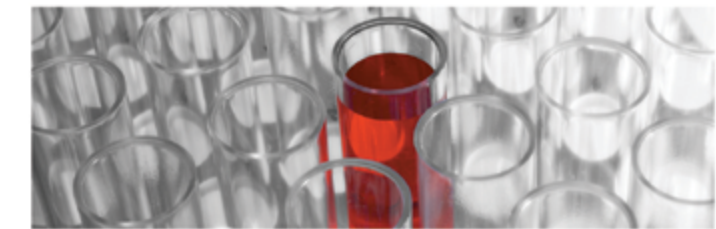
readership of the magazine through better social media integration and promotion, as well as improving content month on month.

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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# CASAGRANDE UK TO LAUNCH NEW C5XP DRILLING RIG AT GEOTECHNICA 2015

Casagrande UK will be launching the new Casagrande C5XP into the UK market at this year's Geotechnica exhibition which takes place at the Warwickshire Exhibition Centre near Leamington Spa on 8th and 9th July.

The C5XP is a rig designed for the geotechnical market weighing 8.5t and having a maximum rotary head stroke of 3500mm. Various single and double rotary and drifter heads are available for the C5XP with torques up to 12000Nm. Powered by a Deutz 85kW engine complying with either Tier 3B/4i or Tier 4F emissions

standards, according to market, the C5XP has the same fully load sensing and power managing hydraulic system that has featured on Casagrande's range of larger XP drilling and piling rigs. A benefit of the XP system is the possibility for the operator to choose one of three different torque/speed ranges for the rotary head according to drilling conditions. A further benefit of the XP system is that the C5XP rig has an electronic control system with an extensive fault diagnosis capability, monitoring of working parameters and the ability to customise control interfaces.

"The C5XP also features full front of the wall (FTW) mast angulation capability..."

The C5XP also features full front of the wall (FTW) mast angulation capability and the option of retracting/expanding tracks which will make the rig extremely useful for sites with restricted access and tight operating areas. Operator control is either via a radio control console or by manual levers on a control arm. A full range of optional equipment is available for the C5XP including water, mud and foam pumps, various drifter head options and a jet grouting mode. Factory fitted safety guards complying with the latest European safety regulations are also available.

For further information, please contact  
:  
Casagrande UK, Unit 3 Botley Lane, Chesham, Bucks HP51XS  
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## CPD Approved Courses for Geotechnical Academy Alumni

### Specifying Site Investigations

This one day course will look at the various methods available to carry out intrusive and non intrusive investigation. Whilst the course will concentrate on geotechnical methods some geo-environmental methods will be briefly discussed. The course will look at the aims of SI and categorise the various stages in an investigation.

### Soil Description Workshop

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 soil description followed by practical sessions describing soil samples.

### Rock Description Workshop

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

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.

### Field Instrumentation and Monitoring

The course comprises a comprehensive one day appreciation of the complete process involved in Instrumentation and Monitoring in the geotechnical environment. The course provides an overview of the current guidance documents and their requirements. The course will consider the design of both individual installations and the installation of suites of instruments in the wider site context.

### Geotechnical Foundation Design

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)

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

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

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. The 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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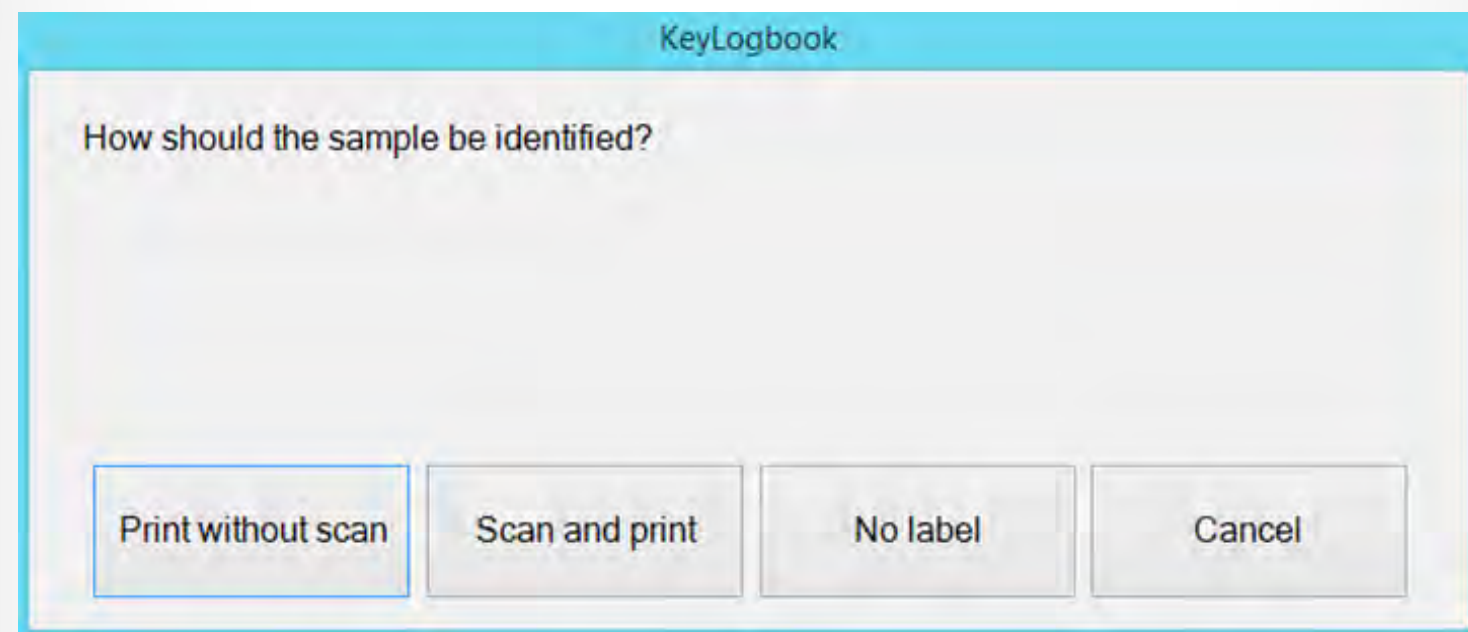
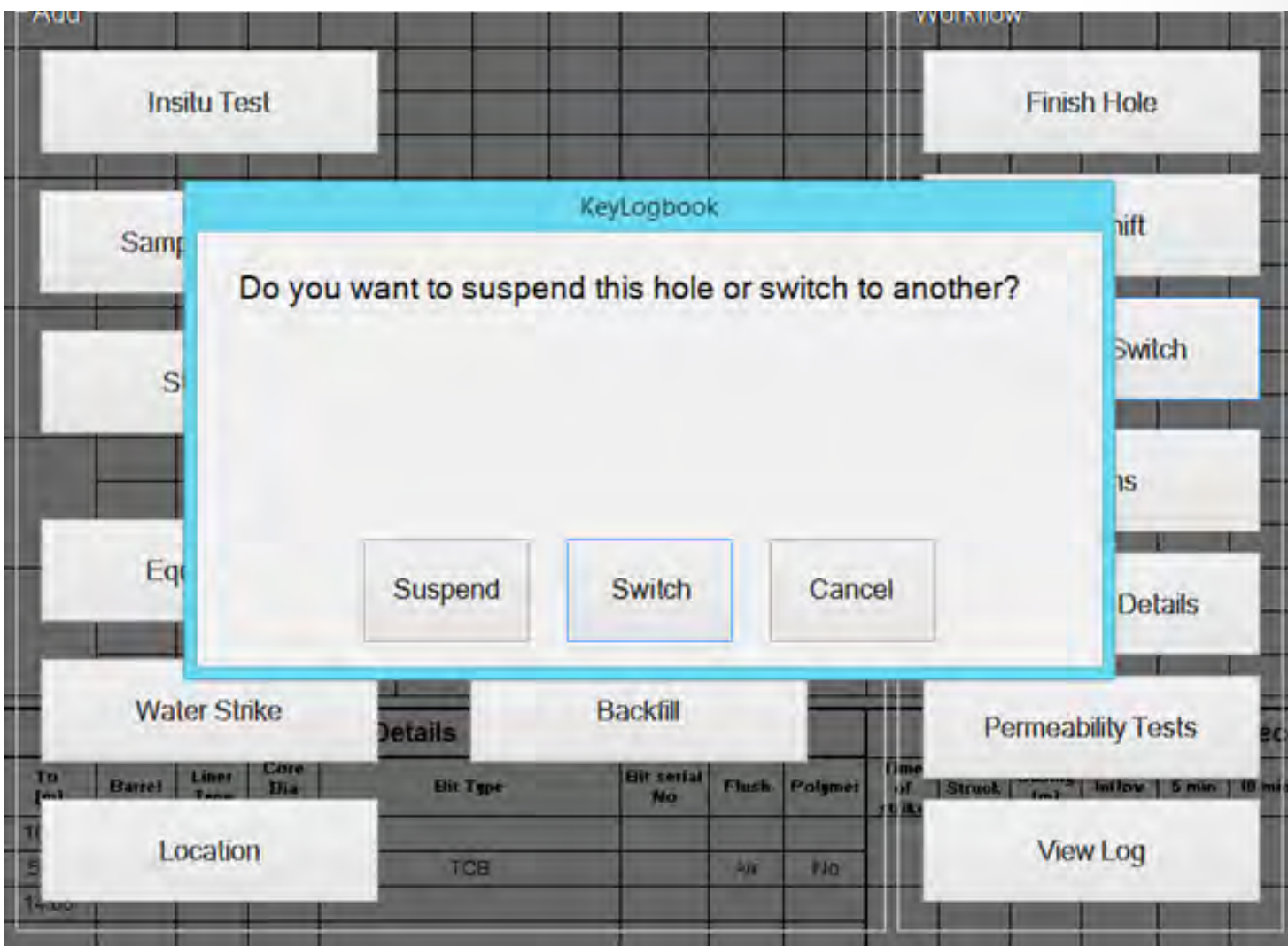
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# KEYLOGBOOK VERSION 3 RELEASE AT GEOTECHNICA 2015

The Equipe/Keynetix partnership are very pleased to announce that the new Version 3 software of the increasingly popular KeyLogbook system is now on general release. The KeyLogbook system which has now been widely used within the industry for 3 years has just undergone its biggest upgrade since its conception. This upgrade has followed a period of interaction, feedback and requests from both existing and potential new users to ensure that the software continues to meet customers ever increasing needs. This feedback

**“The Equipe/Keynetix team are confident that this feedback from users has led to an improvement in the product across the board...”**

from the customers has led to KeyLogbook becoming even more user friendly, leading to an increasingly flexible product for today’s market. The Equipe/Keynetix team are confident that this feedback from users has led to an improvement

in the product across the board, with updates providing more choice and also offering simplified work flows.

KeyLogbook V3 maintains the high performance standards of previous versions and then some. Users can still log Cable Percussion, Rotary, Dynamic Sampling and Trial Pits in the field from just one single device – something no other product on the market can offer. Packaged in an ultra-strong Peli Case, KeyLogbook can still be taken into any environment where sampling and testing is

taking place.

## Windows 8 Compatibility

**“One huge step forward in this new build is the use of new Windows 8 4G devices.”**

One huge step forward in this new build is the use of new Windows 8 4G devices. Built around an internal magnesium frame and fortified with corning Gorilla Glass 3, the tablet features: ‘view anywhere’ display technology providing superior 180 degree viewing angles and 33% greater brightness, as well as a lowered power consumption. With MIL-STD-810G and IP52 rated for durability and ingress protection, the Bluetooth 4.0 to Dual Band 802.11 Wireless-AC LAN to 4G LTE coupled the latest Intel® Pentium N3540 (2.16 GHz) quad core processor, the new KeyLogbook is 69% faster than our previous Windows 7 integrated devices, and with the ability to use Microsoft Excel 2013 the development team have improved the user

experience immensely.

## Multi-hole Input

In previous builds of KeyLogbook users have been unable to log multiple holes at a single time, as well as being unable to move to different holes without finishing another – these are problems no longer. Version 3 allows for any number of boreholes and/or projects to be logged at any one time, so being able to jump from hole to hole and project to project is now possible, all from a single handheld device, while still keeping that all important data safely stored away ready for export.

## Labelling

Labelling has always been a huge advantage of the KeyLogbook system from the outset, with its unique, crystal clear barcoded, thermally printed labels bringing massive time savings in both the field and laboratories. In addition to these features, the labelling system now boasts the availability of fully waterproof and tear resistant labels which, coupled with the high adhesive

backing, make this mundane task easier still.

## Environmental Sampling

The recording of environmental samples including all label writing, recording of sample container information (etc.) and everything else that goes with it is now all done by KeyLogbook. Simply enter the depths and the software allows you to scan and record the environmental containers barcodes while still producing that unique sample

**“This means that environmental laboratories can now have all the data from site all at once...”**

ID label. This means that environmental laboratories can now have all the data from site all at once, including the elusive sample container barcode. This then allows the use of KeyLogbook barcodes within the laboratories from minute one, without the need to re-enter the data, thus saving hours of input time. Best of all, at the end of the logging





# Rotary Rig Inspection Sheet



Company	Equipe Group	Project	HS 2Underbridge 24
Lead driller	Keith Spires	Project No	102034987
BH No	1	Rig Type	Rotary
Date	16/06/2015 00:00	Rig ID	equ9876
<b>Mast and Base Frame</b>		Inspection remark	Defects /comments/ repairs made
Condition / Operation hydraulic pipes	Safe to use	▼	
Condition / Security of mast Pins / locks	Safe to use	▼	
Condition of carriage mast chain or rope	Safe to use	▼	
Condition of drill head carriage	Worn - Safe to use	▼	Seal needs replacing worn
Condition of pulleys and pins (including crown wheel)		▼	
Condition of rod clamps		▼	
Freedom from cracks,bends, damage and corrosion		▼	
Operation emergency stops Including trips (tested)		▼	
Operation of interlock guard (tested)		▼	
Condition/ security of drive head(s)	Safe to use		
Condition/ operation chuck ( if fitted)	Worn - Safe to use		
Condition/ operation Krupp / Swing Away Hamm	Worn - Unsafe to use		
	Defective		
	Broken		
<b>Engine / Chassis / Accessories</b>	Inspection remark		Defects found /comments repairs made

process the samples unique ID has been maintained with the sample, so reporting can be done even faster.

## GPS Positioning, Permits and Inspection Sheets

GPS positioning is also improved in the hardware giving more accurate readings for hole positions. The ability to record CAT scanning of the position and records of permits to dig form part of the start-up for all holes is also included. Pre-start inspection

**“Pre-start inspection sheets for the drilling rigs are now included as standard too, with sheets designed for all the major types of drilling rig.”**

sheets for the drilling rigs are now included as standard too, with sheets designed for all the major types of drilling rig. This means that paper inspection sheets don't go missing and are never lost again, providing an evidence trail for companies, as well as ensuring that these reports are completed for each borehole and not simply when the operator remembers. These too can be sent via email directly back to the office at any time just by the touch of a button.

## Additional Information

The ability to record additional information was a request from many users of the previous build of KeyLogbook. Users will now be able to digitally record new instructions from clients, as well as being able to draw the new position of the borehole where required

thanks to the freehand write/draw functionality in Version **“KeyLogbook will save and export any type of information such as freehand drawings or sketches along with the other data...”**

3. KeyLogbook will save and export any type of information such as freehand drawings or sketches along with the other data; you can even collect the engineers or client signature from those last minute instructions.

## Sample Description

KeyLogbook had always had a quick and easy method to describe stratum, however customer feedback suggested that people wanted a wider

range of description, with the ability to be able to describe in more detail. This development has been another big step forward in the Version 3 software. Firstly it was made quicker, with less taps and screen changes so the description build became faster - the addition of common words on every screen also helping to increase the speed of entry.

**“Also included is the ability to record more detailed stratum such as chalks and peat, with a wider choice of descriptions available, all without typing.”**

Also included is the ability to record more detailed stratum such as chalks and peat, with a wider choice of descriptions available, all without typing.

## Complete AGS Data

The Keynetix AGS experts (whom are still very proud of our record of having never lost any KeyLogbook data), have again improved the AGS output to be totally complete. All of KeyLogbook's data is in AGS format, including additional fields such as geological formation GEOL\_FORM, environmental EVRO\_CONT, drilling method HDPH\_METH. This data is still exported in both AGS 3.1 and 4 is available to the users via email, direct FTP servers and the good old USB. As before this data is accompanied by the PDF outputs of the drilling logs themselves and Excel measure sheets.

These are just a few of the more obvious improvements

### Supplementary Information EQUIPE GROUP

Company	Equipe Group	Project	HS 2Underbridge 24
Lead driller	Keith Spires	Project No	102034987
BH No	3	Rig Type	Rotary
Date	25/06/2015	Rig ID	equ9876

**Comments, Remarks or Observations**

Give a description of the strata encountered.

Firm to stiff thinly laminated yellowish brown grey slightly silty CLAY with rare shell fragments LONDON CLAY

Principal	Accessory	Structure	Texture	Color	Other
ash	Gravel is	fine	very angular	flint	ALLUVIUM
brick	Sand is	medium	angular	sandstone	GALTS CLAY
cardboard	Cobbles are	coarse	sub-angular	mudstone	LONDON CLAY
ceramic	Boulders are	cobble	sub-rounded	siltstone	OXFORD CLAY
china		boulder	well rounded	quartzite	
cloth			flat	limestone	
coal			elongated	chalk	
concrete				metamorphic rock	
metal				igneous rock	
paper				mixed lithologies	
plastic				assorted rock types	
rocks					

becoming rare occasional frequent numerous many very slightly light dark  
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made for KeyLogbook Version 3, however many more are behind the scenes, helping to make KeyLogbook work smoother and faster.

**“The software, which is free to all current licence holders, has undergone this huge upgrade...”**

The software, which is free to all current licence holders, has undergone this huge upgrade in order to ensure that the demands of the drilling industry and its clients continue to be met ahead of large infrastructure projects

such as High Speed 2.

If you are interested in a closer look at KeyLogbook Version 3, please call the Equipe team for a demo of the new software or visit us on Indoor Stand G at Geotechnica on the 8th & 9th July at the Warwickshire Exhibition Centre and try it yourself. You will also be able to witness the seamless movement of data between the field data capture of KeyLogbook and the huge flexibility of the Keynetix HoleBASE SI software at Geotechnica 2015, and once you have seen how easy it is you will never want to return to paper and pen again. ■



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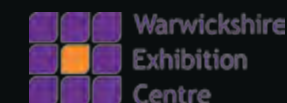
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**EVENT PROGRAMME**





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## Welcome

It is with much delight that we welcome you back to the Warwickshire Exhibition Centre, the proud home of Geotechnica.

This week, Geotechnica returns for a seventh successive year, following on from six previous years of acclaim and popularity. Hoping to beat last year's impressive visitor and exhibitor total, Geotechnica 2015 aims to aid industry growth and development through the building of business relationships, the introduction of new products and innovations and the imparting of knowledge and advice: Communicate. Promote. Network. Learn.

The Geotechnica 2015 conference will deliver compelling insight into the future of the geotechnical industry, as well as providing the latest updates on current and changing legislation and standards. The list of talks for this year's conference is exceptional, and include speakers from London Underground, HS2 Ltd, Network Rail, HSE plus many more. We also have sessions dedicated to Health and Safety, AGS Data Management, Innovations in Monitoring and the challenges at hand to meet geotechnical clients requirements. This, as well as a dedicated conference from The Geotechnical Academy, means there is plenty to sink your intellectual teeth in to at this year's show.

No other event brings together such a diverse group of specialists, all of whom are focussed on the development of the industry. Also, there is no other event that allows visitors to receive answers to all of their project queries instantaneously.

With the industry currently enjoying a period of stability and growth ahead of massive projects like High Speed 2, we sincerely hope that Geotechnica can act as a springboard for even further growth, presenting the opportunity to network, create new contacts and strike new deals that will benefit the industry as a whole. With that in mind, we hope you enjoy your experience of Geotechnica.

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as well as a dedicated conference from The Geotechnical Academy, means there is plenty to sink your intellectual teeth in to at this year's show.





# Conference Programme

Wednesday 8th July 2015

Session 1: Meeting the challenges and future requirements of geotechnical Clients

Opening Times:  
10:00 - 16:00



Keynote Address



10:00 - 10:45

**Nader Saffari - Profession Head - Earth Structures and Geotechnical Engineering, London Underground**

Nader Saffari is a geotechnical engineer with Honours degree in civil engineering and a master's degree and PhD from Imperial College and University of Surrey, respectively. Over the last 12 years he has been working on the management of London Underground Earth Structures and he is currently accountable as the Profession Head for engineering standard and performance of earth structures on LU network as well as the Principal Engineer for geotechnical engineering.

**Presentation Title: Is innovation the key to step change for the geotechnical industry?**



10:45 - 11:15

**Jonathan Gammon - Head of Ground Investigations, HS2 Ltd**

A Chartered Engineer and Geologist, Mr. Gammon has more than forty years of international civil engineering experience working for consultants and contractors. During more than ten years living and working in Hong Kong, Jonathan was responsible for the majority of the Ground Investigation (GI) work carried out for West Rail. Jonathan is now Head of Ground Investigations on the HS2 Project.

**Presentation Title: HS2 Phase One Ground Investigation: Challenges and Requirements**



11:15 - 11:45

**Mike Brown - Senior Engineer, Network Rail**

Mike has worked for Network Rail for 6 years joining the company directly from completing a degree in Civil Engineering at Heriot-Watt University in Edinburgh. He spent his early career working on the Edinburgh to Glasgow Improvement Programme and Birmingham New Street redevelopment. For the past 2 years as a Senior Engineer he has concentrated on improving the techniques used by Network Rail to remotely monitor earthworks assets.

**Presentation Title: Earthworks Remote Monitoring**



11:45 - 12:15

**Professor David Norbury - David Norbury Ltd**

David is an Independent Consultant who has, for many years, provided substantial technical consultancy and advisory services for projects involving ground and groundwater problems in soils and rocks. He has over 35 years experience in the investigation, interpretation and assessment of the ground for the construction of geological, geotechnical, groundwater and remediation projects.

**Presentation Title: Overview of BS 5930 Revision**

## Session 2: Remote monitoring of geotechnical assets



13:30 - 14:00

**Dr Neil Dixon - Professor of Geotechnical Engineering, Loughborough Uni.**

Professor Dixon has been a university academic for over 25 years and has 30 years of experience in geotechnical engineering research and practice. He has worked on funded projects and published over 150 refereed publications in the areas of slope failure mechanisms, pore-water pressure regimes in slopes, in situ measurement of soil/waste properties, slope stability assessment, instrumentation development, slope process modelling, landfill barrier design guidance and impacts of climate change studies.

**Presentation Title: Early warning of geotechnical limit states**



14:00 - 14:30

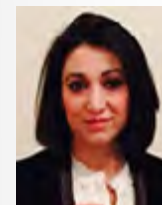
**Dr David Gunn & Dr Jonathan Chambers - British Geological Survey**

David Gunn is an engineering geophysicist and the leader of the Geotechnical properties and processes Team at the British Geological Survey. David is currently working on developing geophysical monitoring techniques, as well as railway geophysics and geotechnics and is the BGS representative to the railway industry.



Jonathan Chambers is a principal research geophysicist and the leader of the Geophysical Tomography Team at the British Geological Survey. Jonathan is also a Natural Environmental Research Council (NERC) Knowledge Exchange Fellow for Infrastructure. He has published more than 40 peer-reviewed journal papers, and more than 70 papers at international scientific and industry conferences, and is currently co-editor-in-chief of the Journal of Applied Geophysics.

**Presentation Title: Proactive Infrastructure Monitoring and Evaluation (PRIME)**



14:30 - 15:00

**Heba Bevan - UtterBerry Ltd**

Heba Yacoub Bevan graduated in electronics and computer engineering (Hons.) in 2005. In 2011 Heba started her PhD at Jesus College, Cambridge. Heba's research involves designing an electronic system that gathers structural change data caused by events such as leaks, cracks, temperature, pressure and impacts. The system will feed the data through the wireless sensor network, allowing problems to be identified as they develop and a targeted approach to structural maintenance efforts in tunnels.

**Presentation Title: Low power wireless sensor networks for geotechnical field monitoring**



15:00 - 15:15

**James Preston - Business Development Manager, Monitor Optics Systems Ltd**

James Preston is the Business Development Manager for Monitor Optics in the UK. James has over 20 years' experience in the construction industry working on large scale projects from football stadia to underground train stations and has been tasked with identifying market areas where the use of fibre optic monitoring would be beneficial over traditional monitoring techniques.

**Presentation Title: Embankment Watch**



15:15 - 15:30

**Roger Hazelden - Technical Specialist for Sensors, TRW Conekt**

Roger Hazelden is Technology Leader for Sensors & Optoelectronics at TRW Conekt. Roger has over 25 years of experience in solving sensing and measurement problems for Conekt's clients in the aerospace, automotive, defence and intelligent transport sectors, often exploiting cross-sector technology transfer. His group at Conekt specialises in making measurements within hostile and "difficult" environments as well as the related issues of sensor signal conditioning, robust electronics, energy harvesting and wired or wireless data transmission.

**Presentation Title: APSCAM - a novel low-cost sensing system for monitoring movement of railway earthworks and other infrastructure**



15:30 - 15:45

**Martin Clegg - Director, Geosense Ltd & Marton Geotechnical Services Ltd**

Martin has extensive experience of specialist products for the geotechnical, rail and civil engineering industries. He now oversees the day-to-day running of Geosense and has been instrumental in the company's development of wireless monitoring systems. Martin studied Soil Science and Geology at the University of Reading and Foundation Engineering at Birmingham University. He is actively involved with Cambridge University's Centre for Smart Infrastructure and Construction (CSIC), the British Geological Society's (BGS) PRIME Project and is a member of CEN TC-314 WG1 TG-2 working group for Geotechnical Monitoring.

**Presentation Title: Monitoring just got smarter**

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# Conference Programme Continued

Thursday 9th July 2015

## Session 3: Keeping on the right side of Health and Safety legislation

Opening Times:  
10:00 - 16:00

Supported by:



### Keynote Address



10:00 - 10:30

**John Underwood - Construction Inspector, Health and Safety Executive**

John has been an Inspector with the HSE for over 20 years and has worked in the HSE's Construction Division for 14 years. Prior to joining the HSE John held various posts including many years in the construction industry and in education. Much of his time with HSE has been spent on investigation of serious incidents, usually involving fatalities. In 2010 he transferred to the Construction Division Sector where he now leads for the Division liaising with the demolition, refurbishment, temporary works, drilling/piling and groundworks sectors of the industry.

**Presentation Title: CDM 2015 update and other matters of concern**



10:30 - 11:00

**Seamus Lefroy-Brooks - Managing Director, LBH Wembley**

Seamus is a SiLC and is multi-chartered as a Geologist, Civil Engineer and Environmentalist. He has worked in the geoenvironmental sector since 1980. He is the Chairman of the Association of Geotechnical & Geoenvironmental Specialists (AGS) Contaminated Land Working Group and was elected to take up Chairmanship of the AGS in 2013. He has also sat on various CIRIA project steering groups producing guidance on UXO, VOCs, gas membranes and asbestos.

**Presentation Title: Managing the risk of asbestos in soil**



11:00 - 11:30

**Peter Redford - Director, British Drilling Association**

Peter is a Director of the British Drilling Association and a retained consultant for Soil Engineering Geoservices. He has always been at the forefront of ground investigation and ground engineering and in his early years worked for Foundation Engineering both in the UK and for an extensive period in the Middle East. Prior to semi-retiring, Peter was Managing Director of Norwest Holst Ground Investigation Division which latterly became Soil Engineering Geoservices. Peter has always been a great promoter of best practice, teaching and education and was instrumental in improved practices within every organisation he was involved in and has maintained this philosophy whilst acting as Chairman of the BDA Technical and Education Committee.

**Presentation Title: Raising the Standards - BDA Audit**

## Session 4: How AGS data makes organisations more efficient Supported by:



12:30 - 12:40

**Jackie Bland - AGS Data Management Working Group Chairman**

Jackie Bland has been a member of the AGS Data Management (Data Format) working group since it was first created in 1992 and the chairperson since May 2010. She is the IT Manager at Geotechnics Limited and an IT Consultant at Fugro Engineering Services and has worked for both organisations for 15+ years. These companies are ground investigation contractors who make heavy use of the AGS Format, both for supplying data discovered from ground investigation to their clients and for internal purposes. At each organisation she is responsible for the internal data management systems and provides advice on how data can be best stored for later consumption.

**Presentation Title: How to get the most from the afternoon**

12:40 - 13:05

**TBC - BGS/Scottish Water**

**Presentation Title: Accessing Historical Data - The importance of AGS Data for the ASK Network in Glasgow City Council**



13:05 - 13:30

**Ben Armstrong - General Manager, Ground Technology Services**

Ben has 11 years' experience delivering diverse site investigation contracts throughout the U.K. Key skills developed include client liaison, contract and people management, technical data analysis and interpretative report writing and authorisation, account management and tendering for projects up to 650k.

**Presentation Title: Data Collection - Using the AGS Data Format for field-based data collection**



13:30 - 13:55

**Greg Adamson - Account Manager, ALcontrol Laboratories**

Greg has a varied background as a geoprofessional in the UK construction industry. Latterly his focus has been on business development, sales and marketing activities for ALcontrol Laboratories. ALcontrol have adopted an innovative approach to how they can serve their clients more efficiently when it comes to data and this provides the backdrop to his talks at Geotechnica this year.

**Presentation Title: Working with Your Laboratory - Receiving and sending data - a laboratory's perspective**



14:15 - 14:40

**Dr Roger Chandler - Managing Director, Keynetix Ltd**

Roger has been a Director at Keynetix since starting the business with Mike Rothery and Gary Morin in 2000. In November 2010 he took on the role of Managing Director with a goal to grow the international side of the business. Although a geotechnical engineer by training, he has become more and more involved with data management, especially in the geotechnical arena.

**Presentation Title: Interpreting Your SI - Using AGS Data to streamline your data interpretation**



14:40 - 15:05

**Simon Miles & Jerome Chamfray - Atkins**

Simon is a Principal Geotechnical Engineer with Atkins with experience in site investigation, geotechnical studies, foundation engineering, earthworks, pavement foundations and construction, with particular emphasis on highways. He has particular experience of the Design & Build contract form and its implications; and in investigation, analysis and design for transportation systems, commercial developments and environmental reclamation schemes. He has been a member of the AGS Working Group on the Electronic Transfer of Data for many years, and leads within Atkins on the management of digital (geotechnical) data. He is a Chartered Civil Engineer (CEng MICE) and Fellow of the Geological Society of London (FGS).



Jérôme is BIM Manager with Atkins Ground Engineering and has over 15 years' experience of leading 3D design and engineering drawing preparation for major projects in earthworks, tunnelling, infrastructure and building. He has recently joined the AGS Working Group on the Electronic Transfer of Data. His current focus is to implement a BIM approach for Atkins' ground engineering projects and to deliver the substantial benefits of incorporating 3D ground modelling within BIM.

**Presentation Title: AGS Data for BIM - Using AGS Data to assist with the delivery of geotechnical data into the BIM process**



15:05 - 15:30

**Alex Simantirakis - Geotechnical Engineer, HS2 Ltd**

Alex started his academic development in Aristotle University of Thessaloniki with a BSc (Hons) in Geology specializing in the fields of Geotechnical Engineering, Soil Mechanics and Hydrogeology. Since then Alex has managed investigations in high profile Costain projects in London for clients such as Crossrail and National Grid. Recently, he joined a leading international consultancy, CH2M Hill and is currently working on the largest infrastructure project in Europe, HS2.

**Presentation Title: A Client's Perspective - The use and advantages of AGS data for modern railways**

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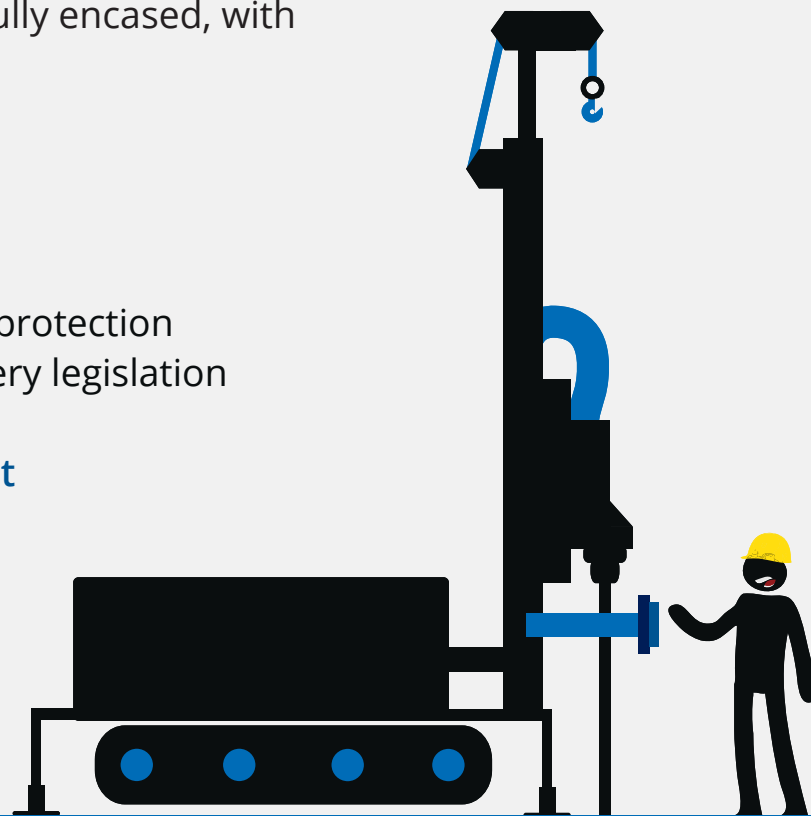
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## Conference Programme

Opening Times:  
13:00 - 16:00

Wednesday 8th & Thursday 9th July 2015  
**The Geotechnical Academy Conference Suite - Stand A**



13:00 - 13:15

**Peter Reading & Liz Withington - The Geotechnical Academy**

Peter is a Chartered Geologist with 40 years' experience in geotechnics. He has spent the majority of his career in site investigation and is a respected member of the geotechnical community and is currently a British Geotechnical Association (BGA) Executive Committee member. Peter's career has included work in laboratories, drilling and grouting, soil and rock mechanics, materials, research and development and sales and marketing.



Liz has over twenty five years' experience in ground investigation in both the private and public sectors. She has worked as a main contractor, public sector officer, consultant and ground investigation contractor. She has extensive experience in the design, procurement, management and supervision of ground investigations and remediation schemes. As Course Director for The Geotechnical Academy Liz is responsible for the training and development of early career geo-professionals.

**Presentation Title: Introduction to The Geotechnical Academy**



13:15 - 13:30

**Dr Roger Chandler - Managing Director, Keynetix Ltd**

Roger has been a Director at Keynetix since starting the business with Mike Rothery and Gary Morin in 2000. In November 2010 he took on the role of Managing Director with a goal to grow the international side of the business. Although a geotechnical engineer by training, he has become more and more involved with data management, especially in the geotechnical arena.

**Presentation Title: Data Management**



13:30 - 14:00

**Professor David Norbury - David Norbury Ltd**

David is an Independent Consultant who has, for many years, provided substantial technical consultancy and advisory services for projects involving ground and groundwater problems in soils and rocks. He has over 35 years experience in the investigation, interpretation and assessment of the ground for the construction of geological, geotechnical, groundwater and remediation projects.

**Presentation Title: Effective logging of soils**



14:00 - 14:30

**Greg Adamson - Account Manager, ALcontrol Laboratories**

Greg has a varied background as a geoprofessional in the UK construction industry. Latterly his focus has been on business development, sales and marketing activities for ALcontrol Laboratories. ALcontrol have adopted an innovative approach to how they can serve their clients more efficiently when it comes to data and this provides the backdrop to his talks at Geotechnica this year.

**Presentation Title: Geochemical samples integrity and AGS**



14:30 - 14:45

**Break - Refreshments Provided**

14:45 - 15:15

**Chris Dimelow - Projects Manager, Lankelma**

Chris is a graduate from Reading University with a BSc Hons in Physical Geography. He has seven years experience of site investigation and foundation construction including experience as a CPT Technician, Geotechnical Advisor and a Project Manager. Chris is currently working in Iden, East Sussex as a Projects Manager at Lankelma Ltd.

**Presentation Title: Insitu CPT Testing**



15:15 - 15:45

**Wendy Jones - IT (Software) Manager, Geotechnical Engineering**

A professionally qualified Senior Engineering Geologist and Supervisor with over sixteen years' experience in the Geotechnical industry. Wendy is currently the IT Manager and Technical Support, responsible for the setup and maintenance of the company's processing software systems (gINT, KeyLAB, AGS) and for the training and technical support of Engineers and Technicians. Wendy's experience includes laboratory manager responsible for the day to day running of and the technical performance of the Company's UKAS accredited soil and rock testing laboratory. Previous to this role Wendy had a dual role as an Engineering Geologist supervising ground investigations, desk studies, walkover surveys, trial pitting, in-situ testing, boreholes, soakaways, geotechnical and geochemical sampling, gas monitoring, logging (in accordance with BS5930 and CIRIA) and factual reporting. Additionally she was also responsible for the maintenance of the Company's software processing systems (gINT).

**Presentation Title: Geotechnical Laboratory Testing - getting the right sample**



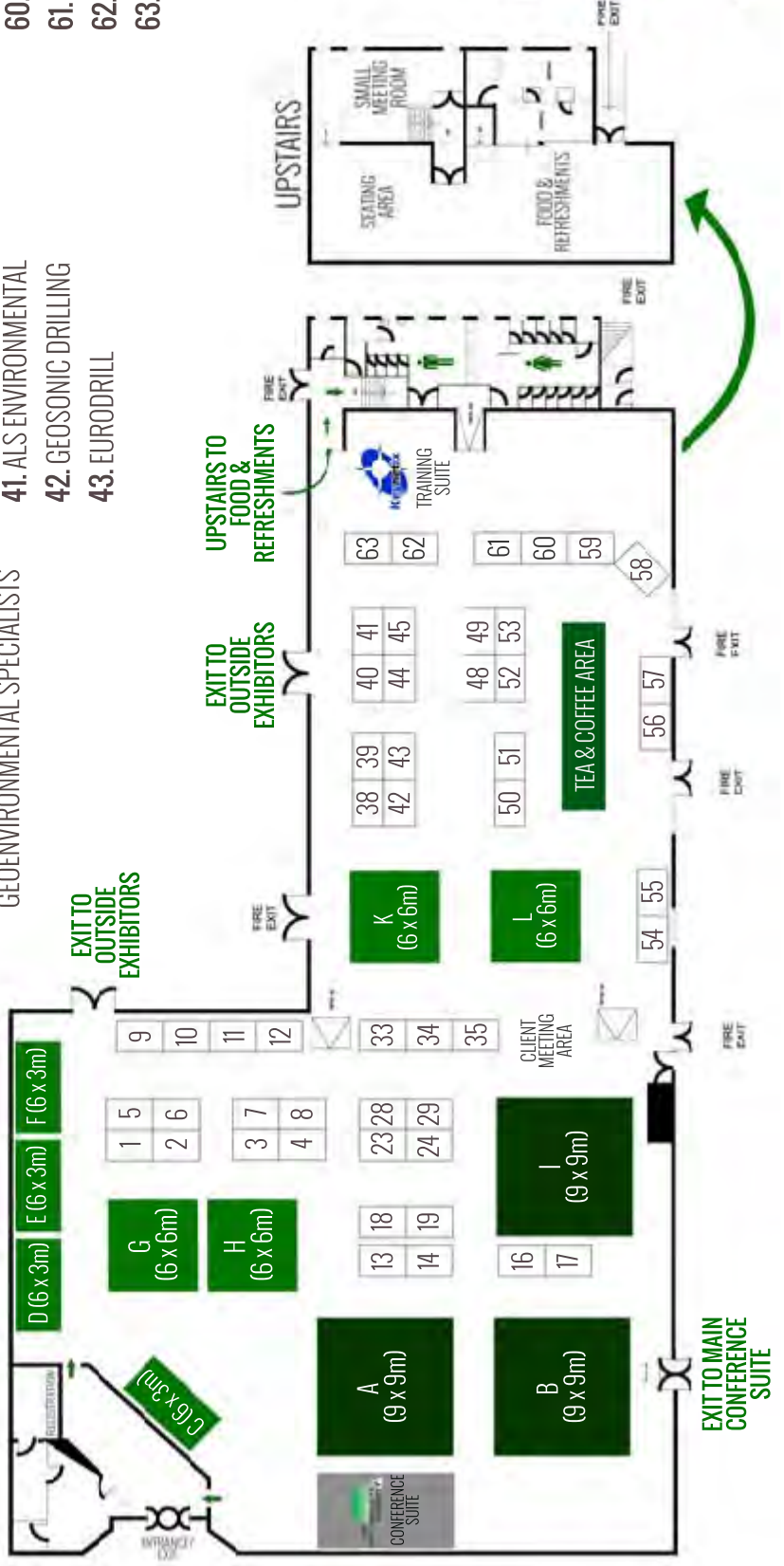
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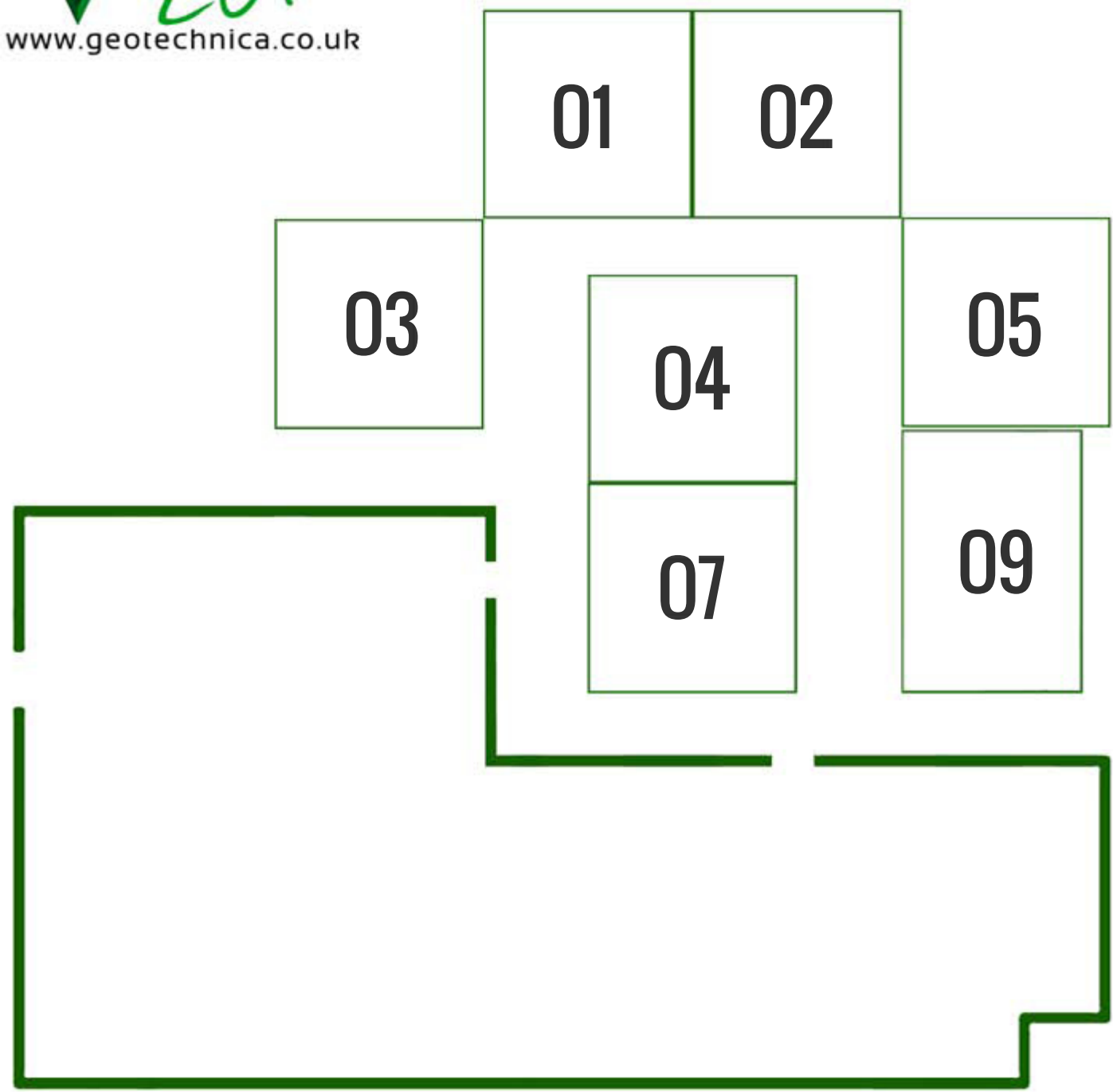


- A. GEOTECHNICAL ENGINEERING
- B. MGS, GEOTHERMAL SUPPLIES & FRASTE DRILLING RIGS
- C. STUART WELLS SERVICES
- D. ARCHWAY ENGINEERING & GEOGEM
- E. BOODE UK
- F. JDP
- G. EQUIPE GROUP
- H. ROCKPECKER
- I. COMPAIR UK
- K. DANDO DRILLING INTERNATIONAL
- L. GEOLABS
- 1. CLEAR SOLUTIONS INTERNATIONAL
- 2. GROUND TECHNOLOGY SERVICES
- 3. TERRA TEK
- 4. TERRA TEK
- 5. APEX GEOSERVICES
- 6. GROUND TECHNOLOGY SERVICES
- 7. BRITISH GEOTECHNICAL ASSOCIATION
- 8. THE ENVIRONMENTAL LABORATORY
- 9. DRILLWELL
- 10. DRILLWELL
- 11. DRILL STORE UK
- 12. CHEMTEST
- 13. GAS DATA
- 14. ASSOCIATION OF GEOTECHNICAL AND GEOENVIRONMENTAL SPECIALISTS
- 16. THE GEOTECHNICAL ACADEMY
- 17. CONCRETE CANVAS
- 18. SOUTHERN TESTING LABORATORIES
- 19. RS HYDRO
- 23. i2 ANALYTICAL
- 24. GROUND SOURCE HEAT PUMP ASSOC.
- 28. EUROPEAN GEOPHYSICAL SERVICES
- 29. TERRADAT
- 33. KAMAL IMPORT EXPORTS INC
- 34. LANDMARK INFORMATION GROUP
- 35. RICHMOND CONTAINERS
- 38. SOILMEC
- 39. SOILMEC
- 40. ALS ENVIRONMENTAL
- 41. ALS ENVIRONMENTAL
- 42. GEOSONIC DRILLING
- 43. EURODRILL
- 44. LIM SAS
- 45. BRITISH DRILLING ASSOCIATION
- 48. LANKELMA
- 49. LANKELMA
- 50. GEONSENSE
- 51. DETS
- 52. IN-SITU EUROPE
- 53. BRITISH GEOLOGICAL SURVEY
- 54. MONITOR OPTICS SYSTEMS
- 55. SCIENTIFIC ANALYSIS LABORATORIES
- 56. STRUCTURAL SOILS
- 57. STRUCTURAL SOILS
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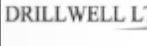






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- 03. MDT SALES
- 04. DANDO DRILLING INTERNATIONAL

- 05. JKS BOYLES
- 07. ROCKBIT UK
- 09. CASAGRANDE UK








# Exhibitors

Stand	Company	Description
A		Geotechnical Engineering Limited provides site investigation solutions to a wide range of clients in the construction and property development industries. They gather data in various ways from sites throughout the UK for geotechnical and geo-environmental assessment and when requested, they analyse the data and give advice. Geotechnical Engineering prides itself on providing innovative solutions delivered in a professional and competent way and are former winners of the GE Innovation Award for their P60 slope climbing rig.
B		MGS – Marton Geotechnical Services – is one of the UK's leading manufacturers and suppliers of products for environmental, geotechnical and civil engineering applications. The drilling division, established in 1988, supplies a range of products for use in site investigation, land remediation, water well construction and geothermal drilling. Their specialist drilling range includes products for borehole lining and sealing, filter media, piezometers, sampling equipment, well covers and cathodic protection wells.
B		Geothermal Supplies provide geothermal system designers and drilling contractors throughout the UK and Europe with access to the highest quality equipment and materials for open and closed loop Geothermal drilling projects. Geothermal Supplies has pioneered the UK geothermal market and its products have set the benchmark for quality and performance. They are the leading single source suppliers of equipment and materials to the geothermal market. Their experience means they have an unrivalled understanding of the technical issues relevant to this renewable energy sector.
B		MGS Ltd is the exclusive supplier of FRASTE products in the UK and Ireland. FRASTE is one of the leading European manufacturers of hydraulic drilling rigs. Established in 1964, they were among the Italian pioneers of modern drilling who first used hydraulic systems on their rigs. Many years of specialist experience has led to the FRASTE range of high quality drilling rigs for water well drilling, geotechnical drilling, geothermal drilling, mineral exploration and seismic drilling. MGS will offer a wide range of Fraste drilling components, accessories and equipment as well as technical support, service and spares.
C		Stuart Well Services is the UK's leading specialists in dewatering and groundwater and ground remediation systems using Wellpoint systems, Deep wells, together with the supply of consumables to the drilling industry. Wellpoint dewatering systems are used to lower groundwater levels to provide stable working conditions in excavations. Wellpoint dewatering systems are particularly suited to dewatering in foundation pipelines runs and trench works.
D		Archway is one of the UK's leading manufacturers of drilling equipment for site investigation, mineral exploration, water well construction, and environmental monitoring. Archway manufactures drilling equipment and sampling tools suitable for use in a wide range of geological formations, from soft silts and soils to the hardest rocks.
D		GeoGem Limited is a British company specializing in the design and manufacture of high performance diamond drilling tools for the Civil Engineering, Geotechnical, Mining, Oil and Geothermal Drilling Industries. We produce a wide range of drilling products including diamond core bits and drill bits, casing shoes, reaming shells, tube drills and junk mills. These are all manufactured to strictest quality standards, under our quality system, and used around the world in a great variety of applications.
E		Boode UK is a world leader in the manufacture of PVC water well casing and screen systems and offers a range of high quality PVC water well products. This, coupled with excellent service, fast on time delivery schedules and flexibility have ensured that Boode products are installed successfully, worldwide.
F		JDP has grown over almost 40 years to be one of the UK's leading and most respected distributors of above and below ground Building products offering Storm Water Management for Total Solutions in Water Management. Providing a one-stop shop for Borehole Systems and all associated products for national and regional drilling contractors, building and construction companies and Water Engineers.
G		Incorporating Equipe Training and Equipe Geosolutions, the Equipe Group are the hosts of Geotechnica 2015. They are one of the leading lights in the sustained development and growth of the geotechnical and drilling sectors. Equipe Training offer industry specific Health and Safety training, along with a number of geotechnical and drilling courses, whilst Equipe Geosolutions provide the industry with new, ground-breaking technologies such as, SAFER-G, eziLog and KeyLogbook - a digital borehole logging system developed in partnership with Keynetix. The Equipe Group also produces the Geotechnica magazine, the industry's leading online concept e-magazine.
H		Rockpecker Ltd offers PDC Drilling Bits, Hole Openers, Reamers & Reverse Circulation Bits that are High Quality and cost effective. Customized sizes and design products are offered with quick deliveries. Rockpecker strives to help drilling companies for reduced drilling costs and to be competitive in their operations.
I		CompAir is a global manufacturer of road towable diesel compressors, with over 200 years' experience. Offering a comprehensive range, from single tool towable compressors, for general groundworks, through to 400-950cfm compressors, for drilling and piling applications. Their flow range covers 35 – 953 cfm at pressures up to 24 bar. They take pride in finding a solution for your compressed air demands, and have been trusted for many years for delivering on our promises. Their product range includes the patented Turboscrew compressors. With flows from 700-953cfm, and pressures from 7 to 24 bar, the Turboscrew range provides the ideal solution to borehole, drilling, piling and ground exploration applications.
K		Dando Drilling International Limited is a long-established UK based manufacturer of drilling rigs and equipment, and supplier of drilling services. Dando manufactures drilling rigs and supplies equipment and services for water well, mineral exploration, geotechnical investigation, environmental monitoring and geothermal applications. Dando exemplifies the values of its board with a clear statement of corporate responsibility which lays out the values that guide and shape the company actions.
L		GEOLABS Limited are a wholly independent testing-only company which ensures that they can respond to clients needs and requirements and are not influenced by any parent company considerations. Their testing is performed by staff with a combined total of over 300 years of soils testing experience. They ensure that the highest level of quality is achieved and maintained in their operations and they are accredited by UKAS for a wide range of tests including: effective stress; shearboxes; classification; earthworks; consolidation; permeability; total stress tests etc.





Stand	Company	Description
1		Clear Solutions International Limited is an independent drilling fluid specialist, employing a team of geotechnical specialists and drilling fluids engineers across Europe. They manufacture and supply a comprehensive range of drilling equipment, offering various different product lines including: High performance, environmentally friendly drilling fluids, grouts and sealants, geothermal grouts, high pressure drilling fluid pumping systems and high performance sealed bearing tricone drill bits and hole openers.
3 & 4		Terra Tek, celebrating its 25th anniversary in 2015, is one of the leading providers of in-situ and laboratory geotechnical and chemistry testing services in the UK. Our laboratories in Airdrie, Birmingham and Chesham (near London) provide an extensive range of UKAS/Mcerts accredited geotechnical and chemical testing services with an emphasis on quality and client delivery. Terra Tek undertake testing on soils and stabilised soils, aggregate, rock, construction materials and waters to British, European and International Standards and have one of the largest effective stress, permeability and shear box facilities in the UK.
5		APEX Geoservices Limited was established in 2001 and is now Ireland's leading geophysical consultancy providing specialist services to the geotechnical, environmental and natural resource industries in Ireland, throughout Europe and beyond. With over 25 years of practical experience and in excess of 1000 projects they offer a comprehensive approach to understanding the subsurface environment. Using the latest technologies they provide a range of applications from overburden thickness to cavity detection, groundwater vulnerability to rippability and aggregate exploration to archeological assessment. As an independent Irish owned company with offices in both Ireland and the UK, APEX is able to offer a wide range of professional services for consultant engineers, contractors, government and semi-state bodies as well as private clients.
2 & 6		Ground Technology Services is a specialist team of engineers and geotechnical experts providing comprehensive site investigations and consultancy services across the UK, to determine the geological and contamination characteristics of your site. They use their expertise and construction knowledge to ensure the most pertinent information is provided so that innovative value engineered construction solutions can be achieved. Their self-sufficient organization means you benefit from rapid delivery. This is enhanced by their bespoke AGS compatible site data transfer system, which instantly communicates site data to our office for prompt assessment and inclusion in your report. You can access your reports swiftly at their online client download centre.
7		The British Geotechnical Association (BGA) is the principal association for geotechnical engineers in the United Kingdom. It performs the role of the ICE Ground Board, as well as being the UK member of the International Society for Soil Mechanics & Geotechnical Engineering (ISSMGE) and the International Society for Rock Mechanics (ISRM).
8		The Environmental Laboratory Ltd (ELAB), specialises in the testing of air/gas, soil, water and leachate samples. We also provide on-site environmental monitoring services and environmental monitoring equipment hire. Our services include air/gas, soil and water analysis, inorganics and organics analysis, Geotechnical chemical testing, metals analysis, as well as asbestos identification, waste characterisation testing and waste acceptance criteria (WAC). ELAB is accredited by UKAS to ISO 17025 for asbestos identification and for a range of soil and water tests. It also holds MCERTS accreditation for a range of soil tests.
9 & 10		Drillwell Limited is the UK's leading supplier and manufacturer of drilling equipment such as drill rods, casing, corebarrels, drilling equipment, drilling rigs, bits and pumps. Their experience and reputation in the field has enabled them to identify their customers immediate and future individual needs both in the UK and the international market.
11		Drillstore UK Limited is a source and supply company based in Chesterfield. They are exclusive distributors for Boart Longyear, Robit Rocktools, Bulroc UK Limited and Tecop Sampling Rigs. With many years of experience Drillstore can help you with all your drilling requirements. With highly competitive pricing they supply all types of drilling tools including soil sampling, drag bits, rockbits, wireline coring tools, conventional core barrels, diamond core bits, overburden casing systems, DTH drilling equipment, drill rods, casing and rotary percussive Tools.
12		Chemtest Limited is the UK and Ireland's premier environmental laboratory providing a comprehensive service for the analysis of soil, water, leachate and gas samples. Extensive accreditation for UKAS and MCERTS is held for the majority of analysis undertaken. Their core business is supported by the Technical Services Team providing bespoke services for treatability and remediation bench scale trials, enabling projects to realise their "Triple Bottom Line" Reduced Waste, Improved Profits and Improved Sustainability.
13		With 20 years' experience in the designing and manufacturing of portable and fixed instruments, Gas Data plays a key role in the analysis and control of biogas and landfill gas. Both their portable and fixed analysers are used on the UK's leading biogas production sites. It has been proven that Gas Data's biogas analysers have helped end users increase revenues and reduce costs making anaerobic digestion projects profitable.
14		The Association of Geotechnical and Geo-environmental Specialists (AGS) is a non-profit making trade association established to improve the profile and quality of geotechnical and geo-environmental engineering. The membership comprises UK organisations and individuals having a common interest in the business of site investigation, geotechnics, geo-environmental engineering, engineering geology, geochemistry, hydrogeology, and other related disciplines.
16		The Geotechnical Academy is a unique training facility which offers a dynamic learning experience through: Knowledge transfer, practicals, debate, discussion, demonstrations and shared learning. The Academy is a collaboration between the UK's leading independent geotechnical and drilling training provider, Equipe Training, and GE's Geotechnical Innovation Award winner, Geotechnical Engineering. This unique combination allows the course to be fundamentally vocational whilst at the same time being cutting edge.
17		Concrete Canvas Ltd. manufacture a ground breaking material technology called Concrete Canvas that allows concrete to be used in a completely new way. Concrete Canvas is a flexible concrete impregnated fabric that hardens on hydration to form a thin, durable water proof and fire-resistant concrete layer. Essentially, it's concrete on a roll. The primary markets for Concrete Canvas Ltd are in the civil infrastructure (road and rail), mining and petrochemical sectors where CC is used for erosion control applications such as ditch lining, slope protection and bund lining.










Stand	Company	Description
18	 Southern Testing	Southern Testing Laboratories are Independent Geotechnical and Geo-environmental Site Investigation Consultants based in Sussex with a regional office in the Midlands. We own and operate a wide range of conventional, low-disturbance and restricted access drilling and field test equipment, and our geotechnical laboratory offers comprehensive soils, materials and aggregates testing.
19	 rshydro	RS Hydro is a multi-disciplined instrumentation company, founded in 1997, providing specialist expertise to tackle technological issues facing clients over a large range of work in the water, environmental and industrial sectors. They are a total solutions provider for the water & wastewater, environmental, food & beverage, mining & aggregates, petrochemical, power generation and research industries for the UK and worldwide. They are specialists in flow meters, water quality monitoring instruments, water sampling equipment, groundwater monitoring, water level loggers, weather stations and wireless telemetry systems.
23	 i2 Analytical	i2 Analytical are an independent leading testing laboratory, which performs a full range of chemical analyses using state of the art laboratory techniques on soils, waters and building and waste materials. Their vision is to be the leading global independent testing laboratory that offers the most comprehensive & multi-disciplinary services in analytical environmental science.
24	 GSHP association	The GSHPA encourages the growth and development of the ground source heat pump industry in the United Kingdom by: promoting the efficient and sustainable use of ground source heat pumps; raising awareness of the benefits of ground source heat pumps; developing ground source installation Standards; encouraging high standards of training for the industry; providing a forum for information interchange; liaising with related organisations to benefit the ground source industry and lobbying for Ground Source Energy industry in matters of local, national and international interest to members.
28	 EUROPEAN GEOPHYSICAL SERVICES	European Geophysical Services provide geophysical logging, imaging and video surveying of boreholes, adits, shafts and wells for the water, mineral, environmental and civil engineering industries. Their expertise and experience ensure a high quality service resulting in them being the preferred contractor to several major utilities, government agencies and engineering companies.
29	 TERRA DAT	TerraDat is a specialist and independent geophysical survey company. Both contracting and consulting services are provided by its experienced staff to the geotechnical, civil, mineral, hydrological and environmental industries. It owns the largest range of geophysical survey equipment in the UK private sector. TerraDat's main aims are to offer a high quality service to its clients while promoting the wider use of geophysical science in appropriate environments.
33	 Lotus	Kamal Import Exports Inc take this opportunity to introduce themselves as leading manufacturers of Lotus brand DTH hammers, button bits, tricone bits and PVC pipes. Their products are suitable for application in mining, quarry, geothermal, environmental drilling, and the water well industry. Their products meet international standards and produce outstanding performance. They have been exporting to several countries in Europe, Africa, Gulf, USA & Canada for more than a decade. Kamal Imports Exports Inc are proud to say that their products are accepted and highly appreciated by the international market. They are situated in Nasik, 102 miles from Mumbai Port in the West Coast of India and their factory is not only equipped with hi-tech modern machinery, but their quality control team ensure that every product produced meets every standard possible.
34	 Landmark	Whether you're looking to acquire land, design or build a development, sell or lease land or property, invest in or secure funding, or undertake compliance - Landmark can help you. Landmark is a business that delivers data, analytics and workflow solutions to support commercial and residential property markets. Serving multiple segments through its leading brands, customers include lenders, environmental professionals, surveyors, architects, planners, lawyers and conveyancers, UK Government and UK Local Authorities. Their market leading Envirocheck business delivers intelligent data solutions and environmental risk information to Environmental Consultants, Civil Engineers, Utilities, Local Authorities, Manufacturing, Insurance, Structural Engineers, Transport and Waste. Their customers work across a broad range of disciplines including Phase 1 Environmental Site Assessment, Environmental Due Diligence, Environmental Impact Assessment, Contaminated Land Appraisal, Asset Management, Flood Risk Assessment, Masterplanning, Civil and Structural Engineering, Transport Assessments, Transport Planning, Unexploded Ordnance and Housing Stock Transfers.
35	 RICHMOND	Richmond Containers is the leading supplier of geotechnical and laboratory sampling containers in glass and plastic including bottles, tubs, jars, bags, tags and ties. Richmond delivers throughout the UK to laboratories or direct to site by next day delivery and with years of experience in the market they provide expert advice and specialized products under their well-established Grufty brand.
38 & 39	 soilmeco	Soilmec Ltd supplies new Drilling Rigs, Piling Rigs, Geothermal Rigs, Cranes to the construction & drilling industries in the U.K and Ireland and used equipment worldwide. They provide Servicing, Repair and supply of Spare Parts for their wide range of machines to provide the highest levels of customer service. The Soilmec range of machinery covers the field of foundations, bored piles, diaphragm walls, micropiles, soil consolidation, jet-grouting, geothermal wells, water wells and also oil and gas drilling.
40 & 41	 ALS Environmental	ALS Environmental understands your soil analytical testing needs, from a Phase I site visit through to a GQRA or a full DQRA. We have a vast experience of working on a range of projects from major infrastructure, such as CrossRail, through to single site developments; we can help with your submissions for planning, Part 11a requirements or remediation. As an organisation ALS can provide you with accredited laboratory testing, in-field, real-time analysis and on-site monitoring including sampling for land analysis. We encompass a wide variety of analytical and sampling service options to the contaminated land sector, including: Standard 5 working day TRT; Waste Acceptance Criteria (WAC); OnSite analysis and Equipment Hire; Field Chemists and access to ALS group of laboratories with a vast range of experience including Waste and Drinking Water analysis. We can provide UKAS and MCERTS accredited analytical services to meet your specific site limits, SGVs, C4SLs or S4ULs.
42	 GeoSonic	GeoSonic Drilling Ltd was formed in January 2013 following the acquisition of Boart Longyear's UK Environmental and Infrastructure Drilling division (UK Sonic Business). The purchase creates the largest independent sonic drilling services provider in Europe and will continue to operate Boart Longyear's proven sonic rigs and tooling with an established on-going partnership with Boart Longyear for support on all equipment. GeoSonic Drilling Ltd will continue to be at the forefront in developing the technology & drilling methods specifically for the ground conditions within the UK.

Stand	Company	Description
43	 EURODRILL	Eurodrill was formed in 2013 to offer clients in the UK and Europe a new standard of excellence in drilling of both hard and soft ground formations. Eurodrill is focused on specific client needs be it in mineral exploration, geotechnical or site investigation drilling. They specialise in high recover and production rates in difficult ground. They can offer innovative systems of core recovery including retractable inner tubes, high grade drilling fluid additives which optimize efficiencies and reduces the need for expensive downtimes and cementation. They believe the service they offer is second to none in the industry they serve. Including a significant focus on environmental impact, with low emissions rig engines, drilling mud recirculation systems that do away with the need for messy mud pits, small site size and our own innovative track mats which allow access to sites without damaging environment. In summary Eurodrill can offer clients a drill programme tailored to your specific needs. High production/ recovery rates with minimal environmental impact, and an underlying focus on health and safety.
44	 LIM	For the last 30 years, LIM has been recognized as a world specialist in drilling parameter recording devices. The MiniLIM and PocketLIM 5G are the fifth generation of LIM drilling parameter recorders. The main drilling parameters, Depth, Penetration Rate, Thrust Pressure, Injection Pressure of the drilling fluid, Torque, Rotation Speed, etc. are recorded through specific sensors installed on the drill rig and connected to the datalogger via one single CANBUS (network) cable. The data is directly transmitted from the job site to the office via the internet (3G-4G modem and Wifi module) or downloaded to a computer by synchronization via a USB. The data is then processed with the cloud (online) GEOLOG 4 service. The complete LIM solution, 5G datalogger + internet data transmission + GEO-LOG 4 data processing service is the most efficient you can find on the market for informed quick decision making.
45	 BDA	The British Drilling Association are a membership organisation for those who drill holes in the ground, manufacture / supply drilling rigs & equipment, or have a general or real interest in ground drilling. Whether it's mineral exploration, water-well activities, ground investigation, geotechnical processes, quarry drilling, geothermal & ground source heat drilling, directional drilling or other applications, their members cover it all.
48 & 49	 LANKELMA	Lankelma is one of the world's leading cone penetration testing (CPT) providers and its aim is to bring state of the art site investigation into mainstream operation as a standard site investigation package. Lankelma maintains a prominent position in the UK's geotechnical industry operating a large fleet of CPT rigs and skilled staff to provide clients with accurate and reliable data. Lankelma is part of the Gardline group, the world's largest privately owned marine survey company. This ensures extensive knowledge not only on land but also in the marine environment. With experience both on a national and international scale, Lankelma looks forward to any new challenges.
50	 GEOSENSE	Geosense Ltd is one of Europe's leading manufacturers and suppliers of instrumentation to the geotechnical, civil engineering, mining and environmental industries. Geosense specialises in the manufacture of a range of vibrating wire sensors which are used to measure strain, load, force, pressure and temperature, together with a full range of other instrumentation including MEMS and wireless monitoring systems. Geosense products are used in the following applications: Dam, tunnel and bridge instrumentation, deep excavation & pile testing, diaphragm & retaining walls, slope stability and pile testing. They are the European and MENA (Middle East and North Africa) distributor for RST Instruments of Vancouver, Canada. Geosense started as a division of Marton Geotechnical Services Ltd, but such has been the success of the Geosense brand that it is now an independent Limited company
51	 dets	DETS offer a wide range of high quality accredited analytical services for the environmental, construction, waste, fuel and engineering industries. Combining a modern, well equipped laboratory, with highly skilled and dedicated staff, we can ensure an excellent and flexible service to meet the most demanding requirements.
52	 In-Situ	In-Situ Europe is a leading supplier of advanced groundwater and surface water monitoring equipment. They have an on-going commitment to providing highly accurate, durable and reliable instrumentation to their clients based on both In-Situ Inc's range of innovative solutions and a carefully chosen selection of products from other leading suppliers. They specialise in the provision of sampling, monitoring and measurement equipment and services for use in a wide variety of groundwater and surface water applications.
53	 BGS	Founded in 1835, the British Geological Survey (BGS) is the world's oldest national geological survey and the United Kingdom's premier centre for earth science information and expertise. The BGS provides expert services and impartial advice in all areas of geoscience. Our client base is drawn from the public and private sectors both in the UK and internationally.
54	 Monitor Optics Systems	Monitor Optics Systems has been active since 2004 and has a presence in Europe and Australia. During these years, the Company has been actively involved in the design and implementation of monitoring systems based on the use of fibre optics sensing technology and in particular our Fibre Bragg Grating (FBG) sensing cables. The Company's portfolio has a number of high profile projects in several countries which include the monitoring of cultural heritage buildings, tunnels, road pavements, airport runways, structural piles and bridges. Many of the monitoring systems developed by the Company have been designed in response to requirements that until then had found no suitable system. The Company is therefore experienced in the supply of new solutions through the development of unique products and systems that are capable of satisfying the customer's requirements.
55	 SAL	Scientific Analytical Laboratories (SAL) provide accredited chemical analytical services to the environmental and geotechnical sectors. Extensive UKAS and MCERTS accredited testing for soils and waters are provided by our facilities in Manchester, Braintree and East Kilbride. SAL offer expertise in persistent organic pollutants, analysis of active samples, gas sample analysis and biological monitoring. Web access to results and invoices is available, along with AGS data and sample collections using our own fleet of vehicles.
56 & 57	 STRUCTURAL SOILS LTD	Structural Soils Ltd is a site investigation contractor with nearly 50 years experience. They are based in Bristol, with branch offices in Castleford near Leeds, Hemel Hempstead and Glasgow, the company operates throughout the United Kingdom and undertakes overseas contracts. The company's experience provides a sound knowledge of all aspects of geotechnical engineering and Structural Soils staff are always ready to give advice. As the company operates various boring and drilling rigs and associated equipment, an investigation can be designed to suit the client's requirement and obtain information in the most efficient manner.









Stand	Company	Description
58		From its beginnings in 1979, Robertson Geologging pioneered the development of slim-hole digital borehole logging systems and techniques. Now, as probably the largest global supplier of slim-hole borehole-logging equipment in the world, RG supplies well-logging instrumentation and contract logging services to every continent. Industries served include oil and gas, nuclear and civil engineering, geotechnical, water-well management, environmental and mining.
59 & 60		Geokon operates on a worldwide basis through a network of agencies. Over the years, Geokon has emerged as The World Leader in Vibrating Wire Technology™ due to their quality, responsive customer service and industry-leading designs. In particular, through innovation and experience, Geokon has developed a line of vibrating wire sensors unsurpassed anywhere in the world. These highly reliable devices have contributed in no small way to the growing worldwide acceptance of vibrating wire as the most suitable technology for geotechnical applications. Geokon manufactures a complete line of geotechnical instruments including extensometers, piezometers, strain gages, crackmeters, jointmeters, load cells, settlement sensors, pressure cells, inclinometers, dataloggers and many other custom items made to order. Geokon UK hold a comprehensive range of instrumentation in stock for immediate deployment.
61		ALcontrol Laboratories is Europe's largest independent provider of accredited laboratory testing services for the environmental industry, with over thirty years of global experience. They provide a range of tests including the following: TPH, PAHs, VOCs, phenols, PCBs, pesticides, metals, standard water tests, and WAC testing. In addition, they now offer full interaction over our web portal, @mis, including collections and deliveries, accessing results, self scheduling, and archiving data, all on a 24/7 basis.
62 & 63		Keynetix pride themselves on their data management expertise. Geotechnical and Environmental Data Management is what they do – and they're good at it. Their software reflects their expertise and has evolved over the past twenty years to seamlessly handle all aspects of geotechnical data workflow. Intelligent data management software has helped their many clients to achieve significant efficiencies on jobs ranging from a single borehole exploratory hole to projects as prestigious as Crossrail, the London Olympic Park and the Hong Kong-Zhuhai-Macau fixed link. Products include; HoleBASE SI, for borehole data management, log production, section diagrams, including the Extension for AutoCAD Civil 3D and the Extension for Microsoft Excel; KeyLAB for geotechnical laboratory management and control, KeyAGS for creating, importing and exporting of AGS Data and KeyLogbook for hand held data collection of site investigation information. Keynetix also develops and hosts the UK Highway Agency's Geotechnical Data Management System (www.hagdms.co.uk) in partnership with Mott MacDonald.

## Outdoor Exhibitors

Stand	Company	Description
01		Established in 2001, TPA Portable Roadways has grown to become Europe's largest supplier of temporary access and ground protection solutions to the geotechnical and drilling sectors. TPA's versatility and expertise in the provision of temporary roadways, walkways, working platforms and ground protection services has led to the development of robust, long term trading relationships with leading businesses across a wide range of sectors. TPA is particularly active in the geotechnical and drilling, powered access and abnormal loads sectors alongside construction, civil engineering, electricity transmission and rail. TPA's commitment to first class service delivery is further demonstrated by its gaining of numerous accreditations and recognised industry standards. In fact, TPA now have full certification for its industry, namely ISO 9001, ISO 14001, OHSAS 18001, and BS 8901.
02		In Situ Site Investigations are a specialist geotechnical and geo-environmental site investigation company, which specialises in the use of Cone Penetration Testing (CPT) techniques and other related pushing technologies. In order to provide their clients with the most accurate and reliable data, they use high quality and innovative equipment. By combining this with their highly trained field staff, quality reporting and quick response times, they believe that they can offer each client the specialist service they require.
03		MDT Sales Ltd are a UK Company based centrally in the East of England and are the sale, service and parts outlet for products manufactured by MDT Spa, Italy. MDT produce a range of mini piling rigs from 4-30 ton in weight in order to complete ground improvement works including mini piling, rotary drilling, CFA, piling and jet grouting. The range of rigs includes large diameter, rotary and CFA from 40-90 ton capacity. The aim of the new company is to provide a first class sales and service network to support equipment sales. This is achieved by fully equipped field service vehicles backed by spare parts and workshop. Full use is made of the sales and technical back-up provided by the facilities of MDT based in Parma and Venafro.
04		Dando Drilling International Limited is a long-established UK based manufacturer of drilling rigs and equipment, and supplier of drilling services. Dando manufactures drilling rigs and supplies equipment and services for water well, mineral exploration, geotechnical investigation, environmental monitoring and geothermal applications. Dando exemplifies the values of its board with a clear statement of corporate responsibility which lays out the values that guide and shape the company actions.
05		JKS Boyles is a leading supplier to the drilling industry, from drilling rigs and wireline drilling systems to drill rods and diamond core bits. They carry large stocks of drill spares and drilling consumables that are available for immediate despatch from their extensive workshop facilities and maintained by their field service engineers. JKS Boyles offer repair and maintenance programmes to suit your requirements, along with extensive drilling support and training.
07		Rockbit UK Ltd. is a major international manufacturer and supplier of drilling rigs, drilling bits and associated drilling equipment. Rockbit UK provides a drilling consultancy service to its customers and prides itself on the reliability and quality of its products and service. As one of the leading UK manufacturers of drilling equipment, Rockbit UK are pleased to be once again exhibiting and supporting Geotechnica 2015. In addition to a very warm welcome, their stand will be featuring a full range of drilling consumables: Water and Mud Pumps, Massenza Geotechnical and Waterwell Rigs and Pagani Penetrometer Rigs.
09		Casagrande UK is the sole UK and Ireland distributor for Casagrande Spa of Italy, a company with over 40 years experience in designing and manufacturing machines and equipment for the ground engineering industry, known world wide for high performance and reliability. Casagrande UK is also the sole UK and Ireland distributor for equipment manufactured by Hutte, Eurodrill (Germany), Hany and Emde.

## Product Launches and Demonstrations

Company	Demonstration
	Massenza MI 3 & Pagani Penetrometer Rig - Outdoor Stand O7
	Cone Penetration Testing & Pressuremeter - Outdoor Stand O8
	C5XP & Eurodrill Vibro Rotary Head - Outdoor Stand O9
	FRASTE SL G - Indoor Stand B
	KeyLogbook, SAFER-G & eziLog - Indoor Stand G
	OnSite Tools - XRF, UVF, PetroFLAG - Indoor Stand 40 & 41
	HoleBASE SI & Software Advice Bar - Indoor Stand 62 & 63

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#### Victoria Cars

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01926 881161

#### Local Taxis

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01926 888846

#### Arrow Taxis

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01926 888855

### Hotels and Accommodation:

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#### Mallory Court Hotel

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01926 330214

#### Travelodge: The Regent Hotel

25 Lizery Street, Leamington Spa, Warwickshire CV32 4AT  
0871 984 6239

#### Best Western: Falstaff Hotel

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Chris Wallace, Director of Innovation and Training, GEOLABS Ltd

Geophysics in Geotechnical Practice - £150 + VAT

**Speakers:** Dr Simon Hughes, Operations Manager, TerraDat  
Kim Beesley, Managing Director, European Geophysical Services

Cone Penetration Testing in Geotechnical Practice (2 Days) - £350 + VAT

**Speakers:** Dr John Powell - Technical Director, GEOLABS Ltd  
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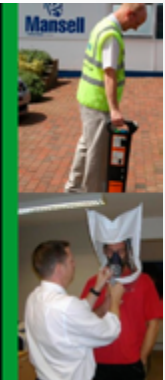
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