

## Geotechnical Courses

Soil Description Work-shop

24th August 2017

27th September 2017

Rock Description Work-shop

27th July 2017

28th September 2017



## Health & Safety Courses

IOSH Safe Supervision (3 Day)

6th - 8th September 2017

IOSH Avoiding Danger (1 Day)

21st July 2017

IOSH Working Safely (1 Day)

18th August 2017



## Geotechnical Courses

Geo Foundation Design

10th August 2017

Geotech' Lab Testing Awareness

3rd August 2017

In Situ Testing

2nd August 2017



## Other Events

Geotechnica 2017

12th & 13th July 2017

@ Warwickshire Exhibition

Centre, nr. Leamington Spa



# theGeotechnica

June 2017 | Issue 59

## Geotechnica

# 2017

### Exclusive sneak-peak: July's must-attend geotechnical event

Full exhibitor listings and complete  
conference line-up details confirmed in  
Event Programme preview.

#### New Land Drilling NVQ details revealed

A look at what lies ahead for  
Land Drilling NVQs, including  
a new Level 3 qualification

#### Good practice guide: Unexploded Ordnance

A thorough analysis of the  
do's and don'ts of UXO from  
Dynasafe BACTEC.

#### BDA Emerging Best Practice

Linear Infrastructure Projects  
seminar from the UK's drilling  
trade association



# GEOTECHNICAL COURSES

SOIL DESCRIPTION WORKSHOP - £275 + VAT

@Equipe Offices, Banbury

24th August 2017

27th September 2017

2nd November 2017

ROCK DESCRIPTION WORKSHOP - £275 + VAT

@Equipe Offices, Banbury

27th July 2017

28th September 2017

7th December 2017

GEOTECHNICAL FOUNDATION DESIGN - £225 + VAT

@Equipe Offices, Banbury

10th August 2017

21st September 2017

GEOTECHNICAL LABORATORY  
TESTING AWARENESS - £225 + VAT

@Brunel University, London

3rd August 2017

5th October 2017

IN SITU TESTING - £225 + VAT

@Brunel University, London

2nd August 2017

23rd November 2017

FIELD INSTRUMENTATION &  
MONITORING - £225 + VAT

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4th October 2017



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Other courses are available. Please visit  
our website for more details.

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# EQUIPE TRAINING

## Health and Safety Courses

DELIVERED IN PARTNERSHIP WITH: RPA SAFETY SERVICES Ltd

### 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:** 6th - 8th September 2017  
11th - 13th October 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:** 21st July 2017  
18th August 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:** 17th August 2017  
9th November 2017

# Welcome

Welcome to the 59th Edition of **theGeotechnica** - the UK's fastest growing online geotechnically focussed e-magazine.

In the first entry into this month's issue of **theGeotechnica**, we take a look at the new Land Drilling NVQ that has recently been developed, including a new Level 3 qualification. The new qualification has been developed to be more 'drilling focussed', removing some units that were deemed to be too 'construction focussed'. Details of the revised NVQ can be found on page 7.

Writing our second article of this month's issue are UXO experts, Dynasafe BACTEC. Business Development Manager Philip Norville offers this month's readers an in-depth guide to good practice with regards to unexploded ordnance. The guidance has been written to help readers select the most appropriate method of identifying and removing unexploded ordnance.

Following on from our two in-depth articles, we have an exclusive sneak-peak at the Event Programme for the UK's largest geotechnical conference and exhibition - Geotechnica 2017. This year's event will be taking place on the 12th and 13th July at the Warwickshire Exhibition Centre. The Event Programme contains full details of the exhibitor listings for 2017, as well as the complete speaker line-up for the conference portion of this year's Geotechnica.

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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# THE NEW LAND DRILLING NVQ: EVERYTHING YOU NEED TO KNOW

*In the first entry into this month's issue of theGeotechnica, we take a look at the new Land Drilling NVQ that has recently been developed, including a new Level 3 qualification.*

During the past 18 months the British Drilling Association (BDA) have been working with awarding bodies of the NVQ to ensure that the Land Drilling NVQ remains firmly in place as the means to assess competence in the industry. The process started with the scheduled review of the National Occupational Standards (NOS) in 2014. This review is a compulsory part

of the entire NVQ system whereby an industry working party examines the standards by which NVQs are built around to ensure that they still meet the demands of the industry and current legislation and guidance.

This review took the shape of many meetings between industry experts from all aspects of the Land Drilling

**“Following extensive discussions, all parts of the industry agreed that over several years the old NVQ had been devalued by making it more generalised from its original form.”**

community. From Ground Investigation to Anchoring, Grouting, HDD, Extractives and Geothermal, all forms and parts of the Land Drilling portfolio were represented. During this period, it was clear that changes needed to be made to the NOS.

Following extensive discussions, all parts of the industry agreed that over

several years the old NVQ had been devalued by making it more generalised from its original form. Initially the NVQ was created by the BDA in the late 90s purely for the Land Drilling community, however, over recent years the industry has seen the NVQ evolve into a more construction related qualification. These changes needed addressing before the revised NVQ itself could be completed.

Certain aspects of the old NVQ were completely removed, such as the duplication of the protection unit and units directly relating to construction site Health and Safety. These were replaced by units far more appropriate to the drilling industry; things such as: Avoiding Underground Services and Operation of Drilling Machinery. Also included were options such as: Understanding Mud and Fluids, Maintain Health and Safety around the

Drilling Site. These units were added to the more familiar: Drill Holes to Specification and **“The new Level 2 qualification is now built up of entirely Land Drilling related units...”**

Reinstate the Drilling Area. The new Level 2 qualification is now built up of entirely Land Drilling related units and pathways have been established to allow sector specific drillers to be assessed against what they do as their day to day job i.e. Ground Investigation, Anchoring, Extractives etc.

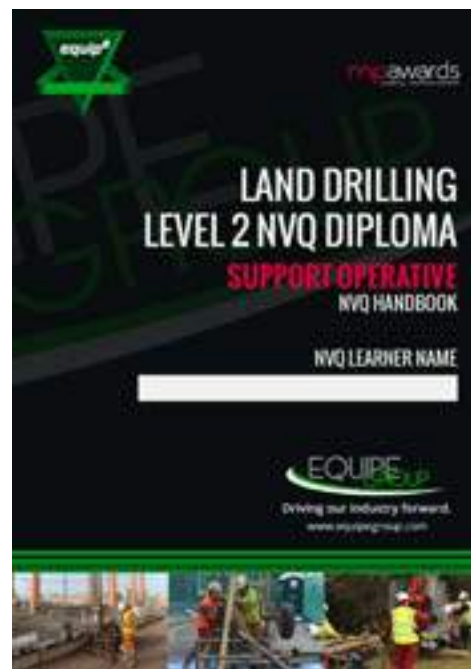
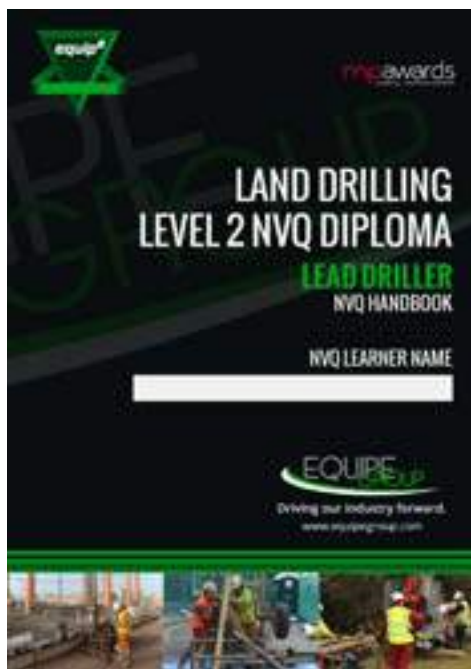
Another important requirement established during the NOS review was that no clear career path was open to drillers beyond the Level 2 NVQ. This was an issue that needed to be addressed.

A clear pathway needed to be created so that people joining the industry had an established route of progression from a Support Operative, to Lead Driller and then on to a higher Level 3 qualification. Obviously, not all drillers are the same, in terms of ability and knowledge, however there was previously no means for them to show this.

**“Considering this, the industry working party created an opportunity to develop a Level 3 Land Drilling qualification...”**

Considering this, the industry working party created an opportunity to develop a Level 3 Land Drilling qualification





**Example: New NVQ Learner Handbooks developed by Equipe Training and MP Awards, an NVQ awarding body.**

**“...part of the qualification is a requirement to demonstrate safe supervision of a drill site and the ability to carry out site risk assessments. This has been added due to safe and competent supervision being a requirement of CDM 2015.”**

alongside the revised Level 2. This Advanced Craftsman - Driller will need to not only have extensive experience, but also possess a level of competence and a skill-set well beyond the current level

required to achieve the Level 2 qualification. Final details of the new Level 3 NVQ are just being confirmed, however, something which is certainly forming part of the qualification is a requirement to demonstrate safe supervision of a drill site and the ability to carry out site risk assessments. This has been added due to safe and competent supervision being a requirement of CDM 2015. A supervisor is required on every site across the UK and a demonstration of competent supervision as part of the NVQ assessment will allow Level 3 qualified drillers to act as supervisor on any site that they operate on. This will see Level 3 qualified drillers not having to rely on engineers to provide this supervision, where in the past they can often lack the experience necessary.

The new NVQ, contains far more in-depth details on how a Lead Driller should be able to drill holes, sample, test, install

and reinstate. It was created to focus far more on drilling-related activities rather than the general construction focus of the old NVQ. In previous incarnations, questions were often asked of Lead Drillers and Support Operatives to which often they did not know the answers because they were not drilling related. Another requirement included for Lead Drillers will be the ability to understand utility maps and plans and operate a CAT and Genny, as well as demonstrations of competency when manoeuvring drilling rigs.

The new Level 3 NVQ will be available later this year and it is expected that some high-profile jobs would be looking for drillers of this level within two years. Below is an example of the new units which would make up a Land Drilling Level 2 – Ground Investigation Lead Driller.

**Mandatory Units**

- Contribute to Maintaining Health, Safety and the Environment in the Drilling Workplace
- Conforming to Productive Working Practices in the Drilling Workplace
- Set Up Protection and Safety Equipment for the Drilling Area
- Operate and Control Drilling-related Powered Plant and Machinery
- Drill Holes to Specification and Operational Requirements

- Carry out Operator Maintenance on Drilling Plant and Equipment
  - Locating and Identifying Underground Services
- With one optional unit being required from**
- Receive and Organise Materials and Equipment for the Drilling Activity
  - Measure and Set Out Dimensional Control for the Drilling Requirement
  - Reinstate the Drilling Area of Operations and Complete Works
  - Unload and Load Drilling Plant and Equipment from Transportation

- Undertaking Mud, Slurry or Fluid Plant Operations in the Drilling workplace

**“Having an NVQ qualification and an annual competency audit is a requirement of CDM 2015 and the current British Standards.”**

Having an NVQ qualification and an annual competency audit is a requirement of CDM 2015 and the current British Standards. The NVQ is the only available method of proving

the initial competence of a Land Driller, and when coupled with the BDA Audit (of which an NVQ is an entry requirement) drilling companies and their drill crews can fulfil these competency requirements. ■

For further details about the new Level 3 Land Drilling NVQ, please visit Equipe Group on Stand C or MP Awards on Stand 25 at Geotechnica 2017. John Bussey, Qualification Development Manager at MP Awards, will also be giving a presentation on Thursday afternoon regarding the new qualification. You can register to visit Geotechnica 2017 for absolutely free via [www.geotechnica.co.uk](http://www.geotechnica.co.uk)



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# A GUIDE TO UXO GOOD PRACTICE

Writing for the *Geotechnica* this month are UXO experts, [Dynasafe BACTEC](#). Business Development Manager Philip Norville offers this month's readers an in-depth guide to good practice with regards to unexploded ordnance.

Unexploded Ordnance (UXO) remains a significant risk to the Geotechnical, Geoenvironmental and Ground Engineering sectors of the UK Construction Industry. Specialists typically locate and remove thousands of live items of ordnance from construction sites annually.

**“The items located range from a small number of large aerial delivered ordnance typically found at depth to large numbers of small rounds and land service ammunition (LSA)...”**

The items located range from a small number of large aerial delivered ordnance typically found at depth to large numbers of small rounds and land service ammunition (LSA) routinely found at much shallower depths. It is worth remembering that all items of ordnance are designed to cause significant damage to personnel, infrastructure, buildings and other assets.

In recent months a number of ‘near miss’ events have become evident within the construction industry with UXO being found on sites without any risk mitigation methods being employed or inappropriate and ineffective techniques being utilised. Often UXO items have been located after considerable intrusive site activities have already commenced or been completed.

The management and control of UXO risks in the UK construction industry is not mandatory, however,

issues regarding health & safety and risk management are addressed within existing legislation. The most comprehensive and widely referenced UXO guidance for the construction industry is CIRIA C681 – Unexploded Ordnance (UXO) a guide for the construction industry (Published in 2009).

The approach described within CIRIA C681 follows HSE guidance and is based upon an ALARP (As Low As Reasonably Practicable) approach. This approach also recommends proactive risk mitigation measures are employed whenever possible and reactive measures are only employed as a last option.

**“A range of risk mitigation measures are available to support GeoEnvironmental investigation works as well as other intrusive activities.”**

A range of risk mitigation measures are available to support GeoEnvironmental investigation works as well as other intrusive activities.

The UXO preliminary risk assessment (PRA) should be undertaken at the earliest possible stage of a project and certainly before any intrusive investigation or



groundworks is commenced. If an unacceptable level of UXO is identified within the PRA then a detailed risk assessment should be commissioned. The Detailed Risk Assessment (DRA) will detail the level of residual risk associated with the site and should separate the type of risk presented by likely ordnance and the depths that risk remains at including the maximum bomb penetration depth based on soils data provided. The DRA will also propose suitable risk mitigation measures for the identified residual risk affecting site works.

## Risk Mitigation Measures to Support Site Works

UXO Risk mitigation works must only be carried out by suitably qualified UXO specialists.

## Non-Intrusive UXO Surveys

A range of specialist geophysical survey technologies can be utilised either independently or in conjunction. The type of survey is determined by a number of factors including the type and likely depth of UXO contamination, ground conditions and the proposed construction activities. Non-intrusive survey systems can be configured with different numbers of sensors dependent upon the areas to be surveyed and can be mounted on a number of platforms dependent upon the size of the survey area. Small sites are typically undertaken by pedestrian surveys and large sites can be surveyed by motorised platforms. Non-intrusive surveys can be employed for both land



**“Typical limitations include only locating small items such as land service ammunition (grenades, mines, mortars, other small items) within the top metre of ground....”**

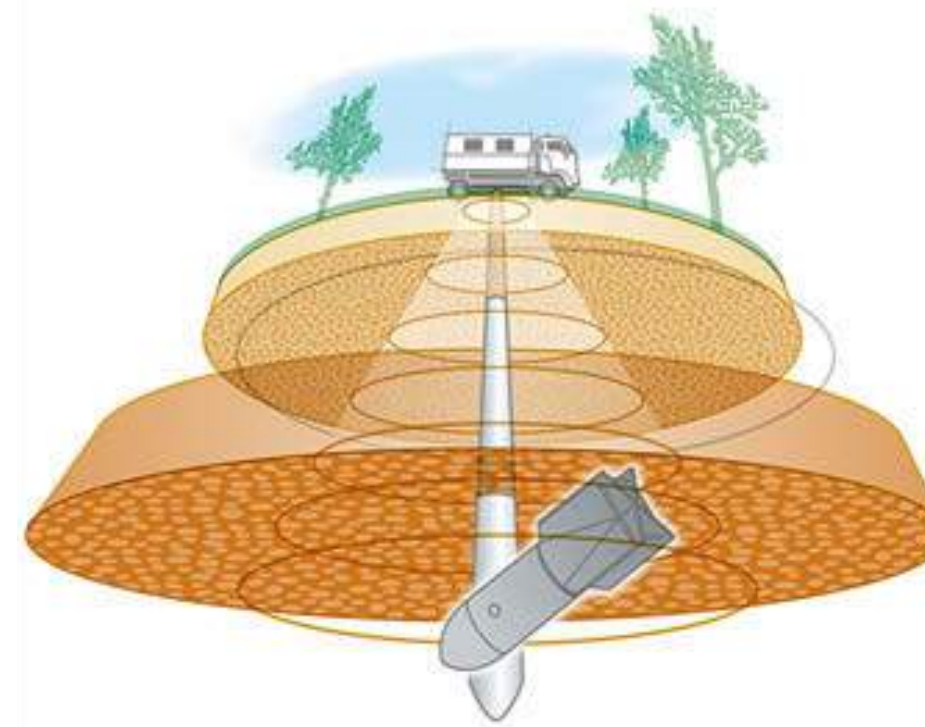
and marine environments and provide rapid and cost effective surveys over large areas of site.

It is critical to understand the limitations of a non-intrusive survey. The system detects any ferrous materials within the

ground and the size of the item determines the depth to which it can be detected. Typical limitations include only locating small items such as land service ammunition (grenades, mines, mortars, other small items) within the top metre of ground. Larger items such as an SC50 – 50kg air dropped bomb, can typically be located up to 4m deep. Typical surveys are undertaken by surveying straight line profiles 1m apart with data being recorded at 100mm intervals. The base colour indicates a lack of ferro magnetic response and discrete magnetic targets are shown as areas of contrasting colours. This recorded data can be processed to evaluate the position, depth and modelled mass of the target.

**“Targets that do not model similar to ordnance can be discounted and any targets that could be ordnance related should have a follow up investigation undertaken.”**

Targets that do not model similar to ordnance can be discounted and any targets that could be ordnance related should have a follow up investigation undertaken. It is not appropriate to merely survey the site and if no targets



**Intrusive Survey Systems**

**Intrusive UXO Surveys**

Intrusive Surveys are undertaken when clearance is required for structures that penetrate into the ground beyond depths that can be cleared by other methods (typically >3-4m). The intrusive survey consists of a magnetometer probe being inserted into the ground either via hydraulic rams or a rotary drilling rig or other hole forming method. Dependent upon the soil types the survey holes can be uncased or cased with a non-ferrous casing to prevent the survey holes collapsing.

**“Both methodologies employ either a look ahead capability or proceed with a staged clearance approach.”**

Both methodologies employ either a look ahead capability or proceed with a staged clearance approach. As the survey proceeds clearance is provided radially around the survey location. In magnetically quiet soils this radius can expand as far as 2m whereas on brownfield sites this radius may be reduced either due to the soil / ground types or structures within the ground causing interference – such as existing piles, foundations etc. As per the non-intrusive

modelling as ordnance are located to issue a clearance certificate without processing the data and recording all ferrous anomalies.

**“As such it is not recommend to carry out a non-intrusive survey on brownfield or known contaminated sites without extensive consultation with a UXO specialist...”**

Brownfield sites or sites with existing ferrous containing items such as services, historic foundations, structures and

made ground containing scrap metal or red brick will provide significant interference or ‘noise’ within the survey and will typically mask any ordnance items. Greenfield sites can also suffer from natural ferromagnetic noise due to the underlying soils. As such it is not recommend to carry out a non-intrusive survey on brownfield or known contaminated sites without extensive consultation with a UXO specialist and considering undertaking trial surveys on the site. Likewise if a UXO specialist claims clearance of excessive depths i.e. greater than 1m for land service ammunition and 4m for air dropped ordnance this should be challenged and further positive evidence sought including details of the proposed survey equipment and data processing software.



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survey the survey data generated allows depth and mass of magnetic targets to be calculated as well as distance from the survey centre. It is important to ensure the surveys are undertaken vertically and rigs that can be levelled are used as this reduces the possibility of the probe and the survey deviating from the expected survey path.

**“On occasion intrusive surveys may not be completed to maximum bomb penetration depth due to the obstructions within the ground.”**

On occasion intrusive surveys may not be completed to maximum bomb penetration depth due to the obstructions within the ground. When surveys are not cleared these locations should be advised to the client such that alternative actions can be considered.

The Intrusive survey can be used to clear pile locations either individually or in clusters as well as linear runs of piles such as sheet piling, contiguous walls and other similar structures. The surveys can be deployed in a matrix pattern to provide general area clearance. Intrusive surveys can also be used with technologies such as soil nails and some other non

vertical drilling techniques.

**Explosive Ordnance Disposal (EOD) Engineer**

On small projects such as Site Investigation works it may not be practicable to undertake proactive survey methods to determine if any UXO remain on site or the ground may be too heavily contaminated with ferrous materials. In these instances it is acceptable to mobilise an EOD Engineer to provide a watching brief function.

Best practice is to start any of these works with a UXO specific safety awareness briefing (Tool Box Talk). The EOD engineer will then survey areas to be excavated with a hand held magnetometer prior to any excavations commencing. The EOD engineer will scrutinise the excavation works and material being excavated to ensure no items of ordnance are uncovered or struck. Should any metallic item be located the EOD Engineer will assess the item as to whether it is ordnance related or not. In the event of ordnance being located the EOD engineer will liaise with the works supervisor and advise on the actions to be taken.

The EOD Engineer can also supervise site drilling works including sampling and installation of boreholes and wells by providing a staged clearance of these items by utilising a ‘down hole’ magnetometer to ensure no ordnance is present. The boreholes may be cased with

non-ferrous casings if required or traditional casing may be raised allowing surveying of the bottom of the borehole without interference from the magnetic casings.

**Non-Metallic Ordnance**

All the above methodologies rely on the ability to locate items of ordnance based on their magnetic metallic properties. A small number of historic and contemporary ordnance items are made from or contain significant amounts of non-magnetic materials. Often items made with non-ferrous materials contain enough ferrous materials in internal components to be

**“The technologies currently employed however, cannot detect plastic, glass or clay items.”**

detected. The technologies currently employed however, cannot detect plastic, glass or clay items. If these items such as plastic grenades, pipe mines or chemical munitions in glass or clay have been identified in the detailed risk assessment then these items can be searched for by EOD Engineers or ‘search and clear’ teams wearing RPE & PPE appropriate to the risk presented. ■

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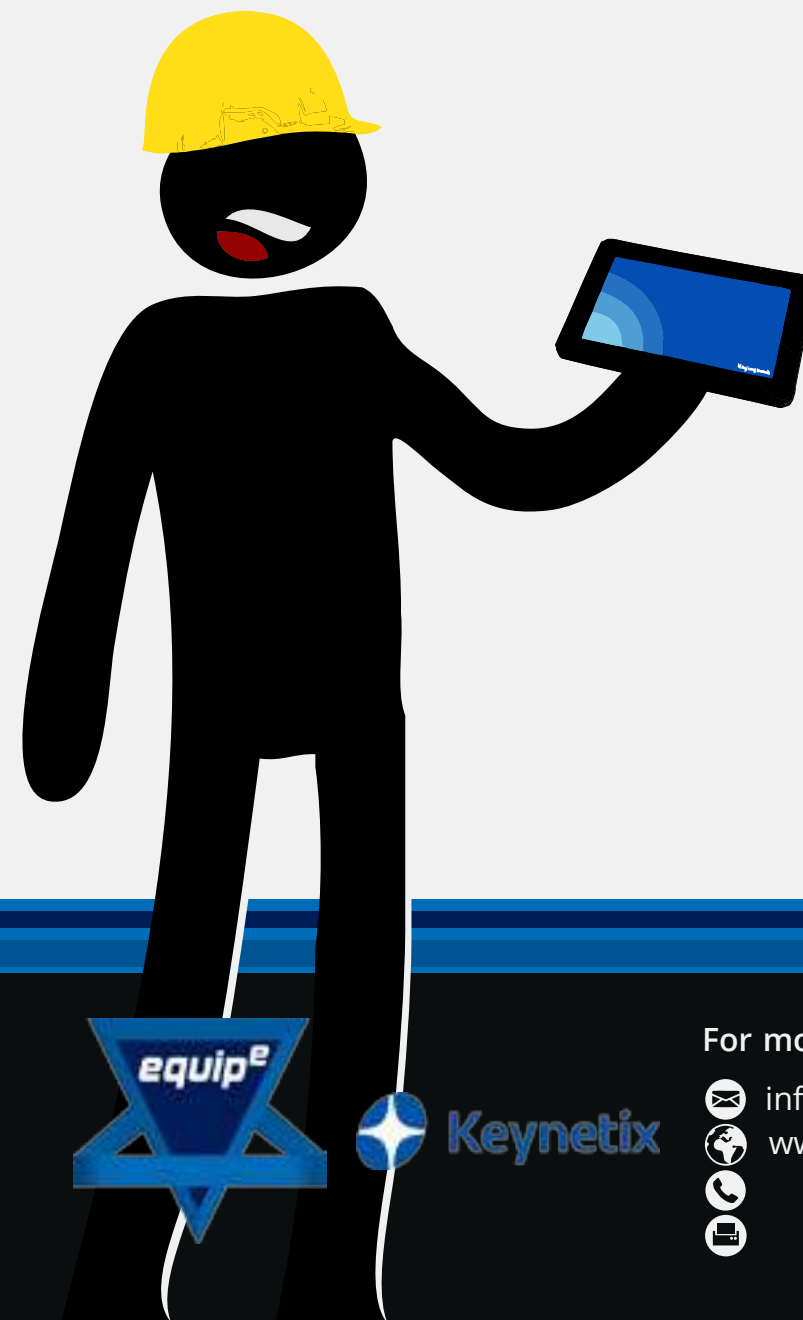
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## CPD Approved Courses for Geotechnical Academy Alumni



### 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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# Emerging Best Practice in Ground Investigation for Linear Infrastructure Projects

**Tuesday 12th September 2017**

Park Plaza Hotel, Victoria, London

**Wed 7th February 2018**

(The National Motorcycle Museum, Solihull, West Midlands B92 0EJ)

**Wed 25th April 2018**

(The Lighthouse, 11 Mitchell Lane, Glasgow, Scotland G1 3NU)

With the go-ahead given for many infrastructure projects, such as HS2 and Crossrail, together with the many other large-scale projects that form part of the government's commitment to investing in construction and infrastructure, it is vitally important that you are prepared.

Securing work will require a thorough understanding of what main contractors demand, including best practice and an appreciation of the unique requirement of working in London, where so much of the work will be originating.

*The better prepared you are - the more likely you are to secure work*

*Speakers from:* Clients; Consultants and Contractors will present their unique insight in to the mechanisms behind securing infrastructure work.

**12.30pm** Registration

**1pm** Speakers, with 30 minute coffee and networking break

**5:30pm** Canapés, drinks and further networking opportunity

PRICE PER PERSON:

**£75.00** + VAT  
(BDA Members)

**£100.00** + VAT  
(non-BDA Members)

To book online please visit:

[www.britishdrillingassociation.co.uk/Events](http://www.britishdrillingassociation.co.uk/Events)

or contact the BDA at:

E: [office@britishdrillingassociation.co.uk](mailto:office@britishdrillingassociation.co.uk) or T: 01773 778751

The BDA is a not for profit organisation, committed to improving standards in health & safety, quality of workmanship and technical standards for the benefit of the Drilling Industry and its Clients

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# Geotechnica 2017

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12 - 13 JULY 2017

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## Welcome to Geotechnica 2017

It is with much delight that we welcome you back to the Warwickshire Exhibition Centre, the proud home of Geotechnica 2017.

This year Geotechnica returns for a ninth successive year, this time with a completely sold out exhibition, a host of new exhibitor product and service launches, innovative demonstrations and a stellar conference line-up.

We would like to thank our fantastic sponsors for their support in the delivery of Geotechnica 2017: Casagrande UK, CompAir, Derwentside Environmental Testing Services, Ibbotson Drilling Services, RS Hydro and Solmek. Be sure to visit their stands to see the very best products, plant and services that this industry has to offer.

The Conference at Geotechnica 2017 will focus on just four key topics: the recent AGS BDA Task Force Survey results, an update on Standards, Occupational Health and Safety and finally Improvements and Future Advancements for the geotechnical industry.

Each session will feature only a few key speakers that will deliver informative and focussed talks on their topic. These talks will then be followed by panel discussions around the subjects. We encourage all interested attendees to participate in the productive discussions around these topics in order to aid industry development and growth.

If you would like to be a part of these discussions and hear what industry leaders have to say regarding the direction of the UK Ground Investigation industry, make sure you head over to the Keynote Presentation Area in the bottom-left of the exhibition hall when the talks begin.

We sincerely hope you have an enjoyable experience at Geotechnica 2017 and we look forward to meeting and greeting you all during the course of the show.

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### 10:30 - 12:00 AGS/BDA Task Force - Spotlight on the Industry

The respective bodies of the Association of Geotechnical and Geoenvironmental Specialists (AGS) and British Drilling Association (BDA) will update the industry on the AGS/BDA 2016 survey results. The key high and low lights of the survey will be discussed in an open forum so that areas which require further discussion and debate can be identified and to determine what the challenges may be for the industry moving forward.



#### Key Speakers



**Neil Parry - AGS Chair and Technical Director, Geotechnical Engineering Ltd**

Neil is a chartered Civil Engineer and, one of only 100 or so, Specialists in Land Condition (SiLC). He has over twenty five years' experience, working for consultants and contractors in the UK and overseas. He is chairman of the Association of Geotechnical and Geoenvironmental Specialists and a member of the Contaminated Land Group and the Loss Prevention Working Group.



**Martyn Brocklesby - BDA Vice Chair and Contracts Director, Geotechnical Engineering Ltd**

Martyn has a degree in applied geology and almost twenty five years' experience in the UK site investigation industry. At Geotechnical Engineering, Martyn is responsible for a team of project managers whom he assists and mentors to make sure that all projects, whatever the specification or size, run smoothly. Martyn is an elected member of the British Drilling Association, has sat on the Management Committee since 2001 and is the current Vice-Chairman of the Association. Martyn was responsible for overseeing the development of the BDA website, chaired the working group who updated the "Guidance for Safe Intrusive Activities on Contaminated or Potentially Contaminated Land" (currently under review for adoption and publication by SISG) and developed the presentation, "Quality Matters" which is being delivered nationwide with the generous support of the CITB.

#### Discussion Panel

**Ken Marsh - Chairman, Ian Farmer Associates, Athena Livesey - Principal Engineering Geologist, WSP, Dr John Powell - Technical Director, GEOLABS, Adam Branson - Principal Geotechnical Engineer, CGL**

### 13:30 - 15:00 Standards and standards - UK Implementation and Compliance

UK technical experts involved in the Standards revisions will update the industry on work being carried out by the UK within the numerous working parties and committees. The barriers to following the Standards and possible reluctance to following the Standards will be discussed as well as improvements to the Standards which would assist the industry to comply and improve standards. This session will include a brief review and Standards update and implications for carrying out ground investigations in the UK.

#### Key Speakers



**13:30 - 14:00 Professor David Norbury - Director, David Norbury Ltd  
Member B/526/3, Convenor ISO TC 182 WG1, UK expert on ISO TC 182  
and CEN TC 341 and CEN TC 396 WG2.**

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.

**Talk Title: 2020 Vision - Where are we going?**



**14:00 - 14:30 Matthew Baldwin - Technical Director, Soil Engineering Geoservices  
UK lead delegate for ISO-TC182-WG4, Member of B/526/3 and Convenor of TG1 with  
in WG2 on rewrite of Eurocode 7 Part 2.**

Matthew Baldwin is technical director for Soil Engineering Geoservices Ltd who are part of the Bachy Soletanche UK group of companies. Matthew has worked for Soil Engineering for over 34 years in the field of ground investigation, providing guidance to projects both within the UK and overseas. Apart from being an AGS chairman from 2015 - 2017, and serving on committees involved with the rewriting of the sampling section of BS5930, he has been a champion of integrating Eurocodes into UK geotechnics.

**Talk Title: Standards -who needs them? With particular reference to BS EN ISO 22475-1**

**14:30 - 15:00 Discussion**

### 10:30 - 12:00 Occupational Health and Safety

Our industry has made great advances in its approach to Occupational Health and Safety but what are the implications for not following H&S legislation. What are the expectations from today's ever demanding Clients and the UK enforcement bodies including HSE. How does the HSE use European legislation and UK common law and what are the implications of BREXIT. How as an industry can we better meet the challenges of health and safety in our unique workplace including welfare, control of dust, HAVS, manual handling, mental health and fatigue.

#### Key Speakers



**10:30 - 11:00 John Underwood - HSE Construction Inspector, Construction Sector Safety Team**

John has been an Inspector with the HSE for over 20 years and has worked in the HSE's Construction Division for over 15 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.

**Talk Title: Managing HSE's expectations and what happens if it goes wrong?**



**11:00 - 11:30 Jon Christie - BDA Safety Committee Chair and Health & Safety Advisor, BAM Ritchies**

Jon Christie is the Compliance Controller for BAM Ritchies and Chairman for the British Drilling Association Safety, Technical and Standards Committee. He is the UK expert on Drilling and Foundation Equipment representing the British Standards Institute on the working group for EN16228 Drilling and Foundation Equipment Safety for the Centralisation of European Standards. Jon is also an active member of the AGS Safety working Group.

**Talk Title: Current and future occupational health and safety considerations for the industry**



**11:30 - 12:00 Adam Latimer - Chair of AGS Safety Working Group  
and Regional Director, Ian Farmer Associates**

Adam has worked in the Geotechnical Industry for just over 23 years since graduating from Durham University with a BSc in Geological Sciences. He is currently responsible for Health & Safety, Quality and Environmental compliance at Ian Farmer Associates. Adam is also the current chair of the AGS Safety Working Group which provides H&S support to the Geotechnical & Geoenvironmental Sector.

**Talk Title: As trial pitting has significant risks relating to working at height, buried services, asbestos - How will it remain a cost-effective investigation method? - Discuss**

### 13:30 - 15:00 Improvements and Future Advancements

The industry is continually striving to overcome the challenges of working safely, efficiently whilst improving quality. The challenging ground conditions found in the UK, Client expectations and low margins provide unique challenges to the plant and personnel. We will hear about how plant manufacturers are rising to the challenge and also how changes to the Land Drilling NVQ will help to raise the bar whilst providing a clear career path for the drill crews.

#### Key Speakers



**13:30 - 14:00 David Jones - Chief Engineer Geotechnical, Reservoirs and E&S, United Utilities**

David has 35 years working with Geotechnical Contractors, a global Construction Company and Client Organisations on many interesting and challenging Ground and Civil Engineering projects internationally and in the UK. David's input centres on provision of cost effective ground engineering outcomes, problem resolution and understanding, articulating and managing significant ground risk.

**Talk Title: Feedback from United Utilities CP Working Party**



**14:00 - 14:30 John Bussey - Qualification Development Manager, MP Awards**

John began his career in the extractives industry in 1984 at a large hard rock quarry operated by Steetley carrying out roles ranging from Operative through to Site Management and thus gained a broad understanding of all aspects of the operation, including Blasting and Maintenance.

In 2003, he joined the Learning & Development Department at Lafarge as an Assessor delivering MPQC card assessments and qualifications and quickly progressed to Team Manager and Internal Verifier. A career move in 2013 took him to MP Awards which is a division of MPQC working as Qualifications Development Manager and External Verifier.

**Talk Title: Introducing the new Drilling MPQC NVQ - L2 Diploma in Drilling Operations**

**14:30 - 15:00 Discussion**





# Product Launches & Demonstrations

Company	Product Launches & Demonstrations
casagrande UK	Eurodrill Vibro Rotary Head. For more information, visit Outdoor Stand 5
Chemtest	New Environmental Site App – Chemgenie. For more information, visit Indoor Stand 49
EQUIPE GROUP	KeyLogbook, SAFER-G & NEW MPQC Level 2 NVQ. For more information, visit Indoor Stand C
geoterra	New mobile mapping of subsurface voids, tunnels & shafts. UAV Drone Demonstration. For more information, visit Indoor Stand 15 & Outdoor Demonstration Area
IBBOTSON DRILLING SERVICES	Brand New 'Eagle' drilling tool range featuring DTH hammers, bits, overburden systems, tricone rock bits. For more information, visit Indoor Stand 22 & 23
IN SITU GTP INVESTIGATION	Cone Penetration Testing & Pressuremeter Course in Autumn 2017. For more information, visit Outdoor Stand 8
Keynetix	Keynetix Assist Live Bar, HoleBASE SI AutoCAD Civil 3D Extension. For more information, visit Indoor Stand D
MGS  FRASTE	FRASTE SL G, FRASTE ML, Wildcat Concrete Coring Rig, NEW Diver Product Range. For more information, visit Indoor Stand A and Outdoor Stand 7
Rockbit uk Ltd	Debuting the newly redesigned Massenza MI4, Pagani Geotechnical 20t-capacity CPT penetrometer and magnetocone, Wildbore Pumps. For more information, visit Outdoor Stand 9
rshydro	Solinst Water Level Meters, Eureka Water-Quality Monitoring Multi-Probes, Outpost Telemetry Systems, Waterloo Hydrogeologic Groundwater Software. For more information, visit Indoor Stand 31 & 32
VAN WALT	LevelSCOUT, Window Sampling System, vanwaltCONNECT, Augers. For more information, visit Indoor Stand 20 & 21



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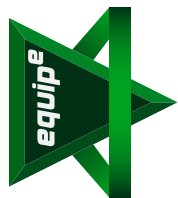
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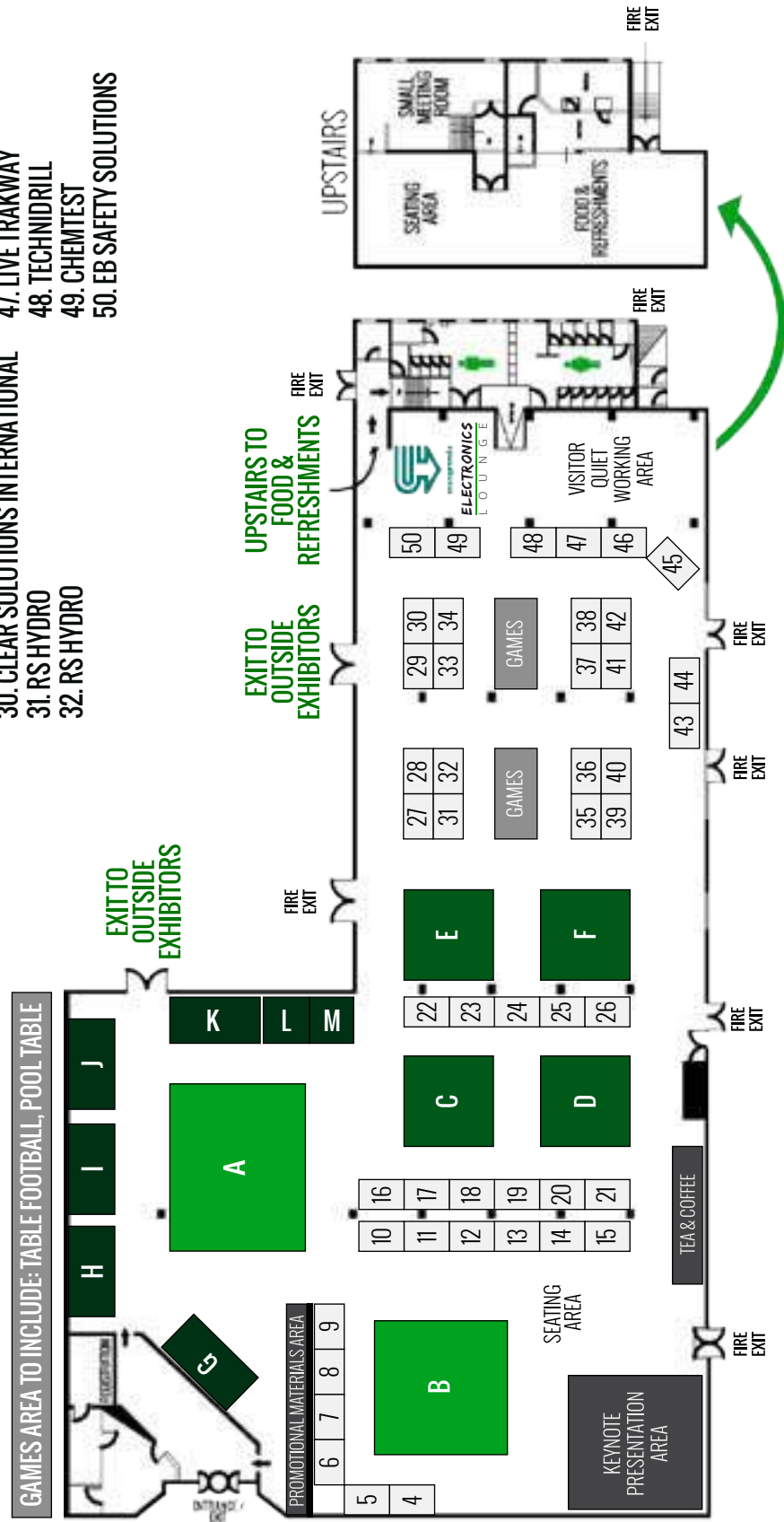
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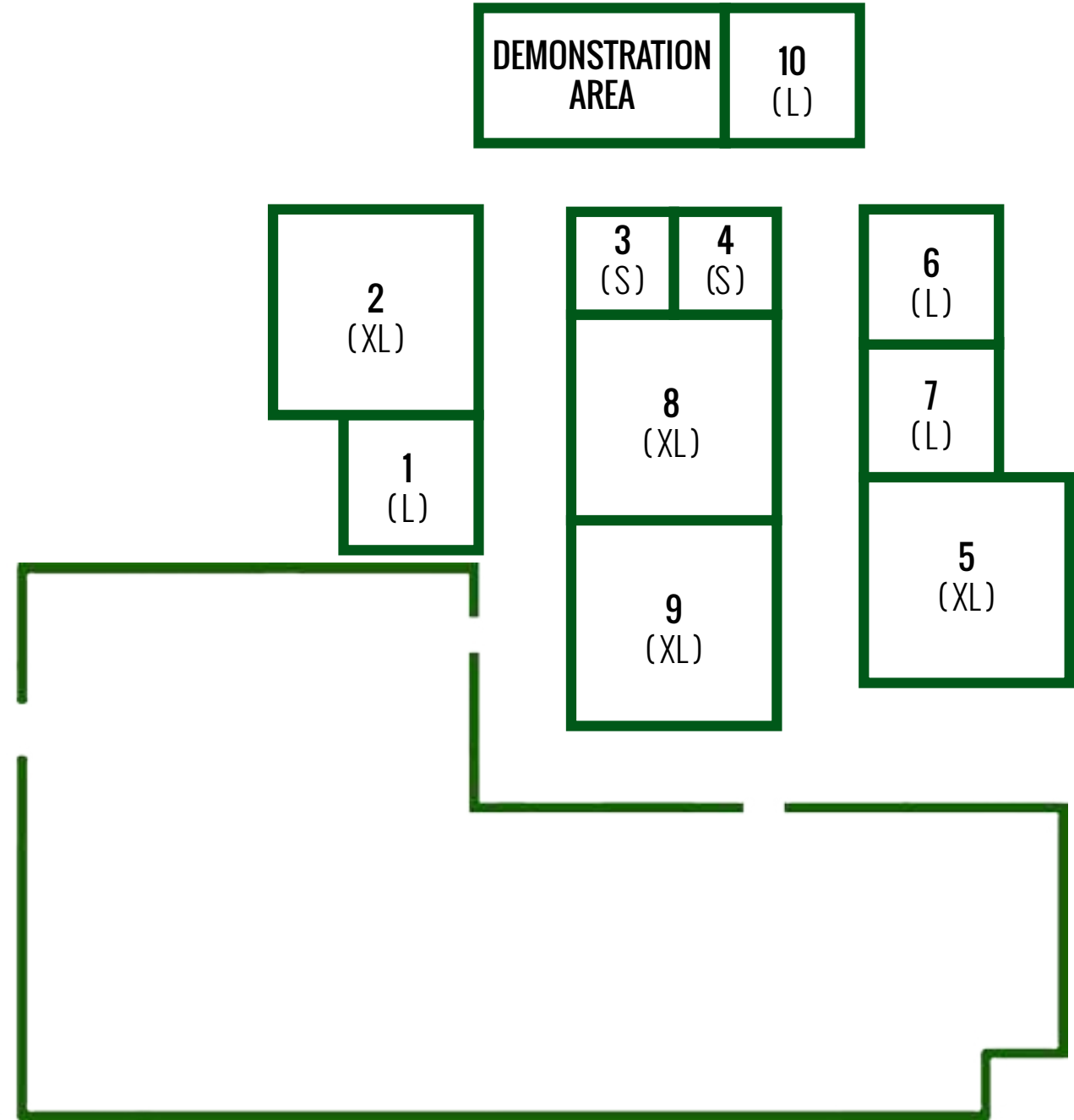


# Geotechnica 2017

- A. MGS
- B. COMPAIR UK
- C. EQUIPE GROUP
- D. KEYNETIX
- E. DANDO DRILLING INTERNATIONAL
- F. SKELAIR
- G. AQUAREAD
- H. ARCHWAY ENGINEERING
- I. FUGRO
- J. BOODE UK
- K. BULROC UK
- L. AMBISENSE
- M. DATGEL
- 4. STUART WELL SERVICES
- 5. STUART WELL SERVICES
- 6. STUART WELL SERVICES
- 7. B A HYDRO SOLUTIONS
- 8. ALS ENVIRONMENTAL
- 9. DYNASAFE BACTEC
- 10. SOLMEK
- 11. MINCON INTERNATIONAL UK
- 12. BRITISH DRILLING ASSOCIATION
- 13. AGS
- 14. TEREDO S.R.I.
- 15. GEOTERRA
- 16. JET MATERIALS
- 17. RPA SAFETY SERVICES
- 18. COOPER RESEARCH TECHNOLOGY
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- 20. VAN WALT
- 21. VAN WALT
- 22. IBBOTSON DRILLING SERVICES
- 23. IBBOTSON DRILLING SERVICES
- 24. THE GEOTECHNICAL ACADEMY
- 25. MP AWARDS
- 26. VAN ELLE
- 27. EUROPEAN GEOPHYSICAL SERVICES
- 28. TERRADAT
- 29. CONTROLS TESTING
- 30. CLEAR SOLUTIONS INTERNATIONAL
- 31. RS HYDRO
- 32. RS HYDRO
- 33. CONCRETE CANVAS
- 34. 1ST LINE DEFENCE
- 35. AR. CO. S.R.L.
- 36. DRILL SERVICE
- 37. DETS
- 38. DETS
- 39. INCOFILTECH S.R.L.
- 40. TPA PORTABLE ROADWAYS
- 41. BRITISH GEOLOGICAL SURVEY
- 42. LANDMARK INFORMATION GROUP
- 43. LECA UK
- 44. CONCEPT LIFE SCIENCES
- 45. GEOSONIC DRILLING
- 46. ICE PUBLISHING
- 47. LIVE TRAKWAY
- 48. TECHNIDRILL
- 49. CHEMTEST
- 50. EB SAFETY SOLUTIONS



# Geotechnica 2017
















- 1. NORTH EQUIPMENT
- 2. JKS BOYLES
- 3. PREMIER PLANT ENGINEERING
- 4. RGI
- 5. CASAGRANDE UK
- 6. S M ASSOCIATES
- 7. MGS-FRASTE
- 8. IN SITU SITE INVESTIGATIONS
- 9. ROCKBIT UK
- 10. GEOSONIC DRILLING





# Indoor Exhibitors

Stand	Company	Description
A		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		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.
C		Incorporating Equipe Training and Equipe Geosolutions, the Equipe Group are the hosts of Geotechnica 2017. 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, 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.
D		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 ( <a href="http://www.hagdms.co.uk">www.hagdms.co.uk</a> ) in partnership with Mott MacDonald.
E		Dando Drilling International is a UK manufacturer of drilling rigs and equipment for the geotechnical, water well, mineral exploration and geothermal sectors. Celebrating its 150 year anniversary, Dando supplies its hydraulic rotary and shell & auger rigs worldwide and has machines in operation on every continent.
F		Skelair is a leading supplier of Ground Engineering and Rock Drilling equipment in the UK. Supplying new and used rigs, mast attachments and accessories from market leading manufacturers and supported by their experienced in-house technical and engineer team. Their complete range of drilling consumables, at very competitive prices, are stocked for rapid delivery direct. In addition, the extensive Skelair rental fleet with modern and well maintained equipment for a variety of applications is available on a long or short term hire basis.

Stand	Company	Description
G		Aquaread Ltd is the UK’s leading designer and manufacturer of portable and fixed multiparameter water quality testing instruments. Their manufacturing is performed in the UK to achieve the highest quality and their instruments are used all over the world. Applications for their instruments include the monitoring of surface water, ground water and waste water quality along with accurate water level in ground water boreholes for example.
H		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.
I		Fugro is the leading international provider of integrated geotechnical and geospatial services. For over 50 years their specialists have helped clients in the energy, resource and infrastructure sectors to reduce uncertainty and manage risk – from project development to decommissioning. With over 11,000 staff delivering a unique range of survey, investigation, testing and geo-consulting services on land and underwater, they are the natural choice for all your site characterisation and asset integrity needs.
J		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.
K		Bulroc, now part of Robit family of companies, is now able to offer an even wider range of Down the hole and Top Hammer drilling consumables. With four group production facilities worldwide and new a focus on the UK drilling market BulrocRobit is able to fully service all customer segment needs now and in the future. So for your next project try BulrocRobit, they’ll be happy to support you!
L		AmbiSense is an environmental services & analytics company headquartered in Ireland with operations in the UK & Australia. Their mission is to use technology to solve complex environmental problems. AmbiSense specialises in the development of adaptive online instruments which can be deployed remotely to harvest real-time data from any location. The data from their devices is displayed on their software platform where it can be contextualised with other data sources to enrich the quality of information produced.
M		Datgel are experts in gINT with a track record of over 10 years delivering gINT Add-in software like the CPT Tool, DGD Tool, and high-quality geotechnical data management solutions. The company provides a complete range of services for gINT, including expert advice, database and report design, training, support, and .NET software development.



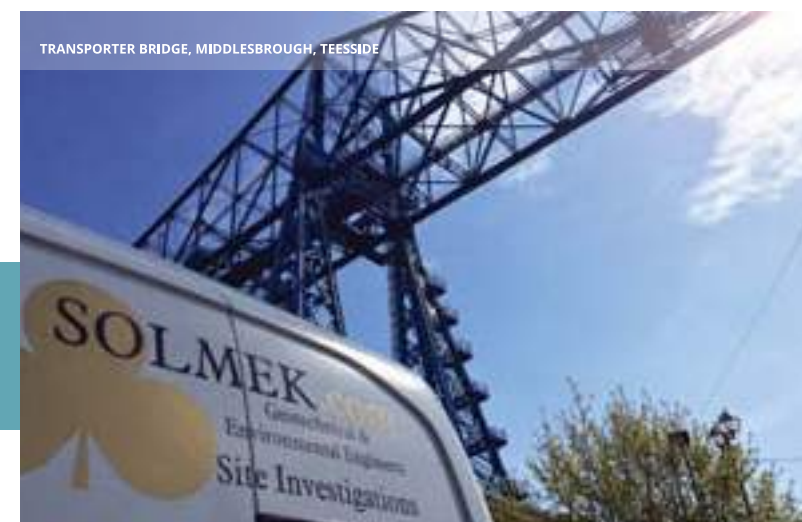
DETS offer a wide range of analytical services for the environmental, construction, waste, fuel and engineering industries, and are accredited to ISO 17025 and MCERTS for soils and waters. Combining a modern, well equipped laboratory, with highly skilled and dedicated staff, we can ensure an excellent and flexible service to meet your requirements.

DETS are recognised as a centre of excellence for the analysis of asbestos in soil, and hold accreditation for:

- Identification of asbestos
- Quantification of asbestos, including free fibres
- Water absorption to determine licensable or non-licensable material

Our staff work closely with our clients to understand their needs in terms of technical and commercial requirements, including reporting deadlines, thus enabling our clients to meet their own obligations confidently.

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- Phase 3 Remediation
- Phase 4 Validation
- Installation placement and monitoring
- In-situ testing

#### Geotechnical Laboratory

Our in-house soils laboratory is UKAS accredited for a wide range of tests specified in BS 1377. These include, but are not limited to:

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- One-dimensional consolidation
- Compaction (light/heavy/vibrating)
- PSD & Sedimentation (hydrometer)
- MCV (single/relationship)
- Atterberg Limits















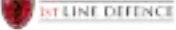


Our accreditation is limited to those activities described on our UKAS schedule of accreditation found on our website or UKAS.com

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Stand	Company	Description
4, 5 6		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.
7		B. A. Hydro Solutions Ltd. is an independent hydro-thermogeological consultancy specialising in public & private water supplies, ground source heating/cooling, geophysics and remote sensing (down hole, surface, aerial-drone and underwater-remote-vehicle), field & laboratory testing, water/environmental regulatory services, drilling brokerage, project and contracts management. B.AHS provide clients as much or as little support as needed from feasibility studies/reports to turnkey solutions. Their in-house laboratory and extensive range of equipment allows them to provide rapid reliable solutions.
8		ALS Environmental provides reliable analytical testing data to assist Consulting, Geotechnical, Ground and Site Investigation firms to make informed decisions. A comprehensive range of environmental testing and technical support services are complemented by a commitment to Quality (ISO17025 and MCERTS) and Customer Service. Talk to ALS about your Data Management requirements, ALS can assist with a wide range of reporting formats which include AGS, EQUIS, ESDAT and Excel in their user-friendly online portal called @mis.
9		Dynasafe BACTEC is the established market leader in Unexploded Ordnance (UXO) risk mitigation in the UK providing an unparalleled range of in-house services at all stages of the construction process. Since 1991 Dynasafe BACTEC has been involved in more than 5,000 UXO risk mitigation projects across the UK from risk assessments to onsite survey, investigation, disposal and clearance. This unrivalled experience and in-depth knowledge provides their clients with the assurance and security that their project is being supported by experts.
10		Solmek is an independent site investigation company based in north-east England. Solmek's team includes qualified engineers, geologists and technicians, specialising in geotechnical and geo-environmental investigations. In recent years, they have expanded their work portfolio while gaining nationally recognised certifications enabling them to provide clients the best quality service from initial Phase 1 Desk Studies through to detailed Phase 2 Site Investigations and beyond. Onsite services are supported by their in-house UKAS accredited geotechnical testing laboratory.
11		Mincon manufactures and distributes a range of precision engineered hard rock drilling tools for a variety of industries including Mining, Exploration, Waterwell, Geothermal, Construction, Horizontal Directional Drilling, Oil-Gas and Energy. Mincon Group PLC has a worldwide presence with offices in Ireland, UK, Sweden, Poland, USA, Canada, Australia, South Africa, Namibia, Tanzania, Senegal, Ghana, Chile and Peru. All of their products are manufactured in their own plants in Ireland, USA, Australia, Canada or the UK and they have a well-developed supply chain which means they can get Mincon products to their clients' sites wherever they are in the world.
12		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.
13		The Association of Geotechnical and Geoenvironmental Specialists (AGS) is a non-profit making trade association established to improve the profile and quality of geotechnical and geoenvironmental engineering. The membership comprises UK organisations and individuals having a common interest in the business of site investigation, geotechnics, geoenvironmental engineering, engineering geology, geochemistry, hydrogeology, and other related disciplines.
14		Since 1990, Teredo have specialized in producing tailor-made drilling rigs for soil investigation, water wells and micropiles. Teredo has produced and sold over 500 machines since then, with their rigs now working all over the world. Their rigs are of the highest standard, with top quality hydraulic components and every piece of every machine manufactured inside its factory in Italy. Thanks to it's highly qualified and site-experienced team, Teredo can study, design and realize your drilling rig from 2 to 20 ton, as per your specifications and special request.
15		Geoterra are geospatial engineers and consultant chartered land surveyors who specialise in above and below ground geo-referenced surveys. They work very closely with consultant engineers, contractors and drilling operators in the civil engineering and building sectors to provide a high quality service to clients and have almost 40 years' experience working on major infrastructure projects. Geoterra utilise a variety of innovative solutions to obtain accurate survey data upon which engineering decisions can be made and help in reducing the risk of the unknown; what lies beneath. They offer their clients unique solutions for their various requirements throughout the UK. They also provide expert witness services for construction litigations and are often called upon to give independent advice as consultant engineers and surveyors.
16		Jet Materials are a UK based company with over 30 years technical and sales knowledge providing a range of services and products to Civil Engineering and Education. Their main focus is Materials Testing Equipment, covering Soils, Concrete, Asphalt, Bitumen, Cement, Steel, Rock, Aggregates and general laboratory equipment. All of their equipment is compliant to EN, BS, ASTM or AASHTO standards. They are UK agents/distributors for quality equipment manufacturers from Italy, Germany, USA and Australia.
17		RPA Safety Services provide a comprehensive range of externally certified training courses. They are providers of IOSH Managing Safely and CIEH Working Safely and their highly successful IOSH approved Safe Supervision of Geotechnical Sites, Working Safely (on Geotechnical Sites) and Avoiding Danger from Underground Services which are run in partnership with Equipe Training.
18 & 19		Established in 1990, Cooper Technology is a British company and one of the world leaders in the design and manufacture of high performance testing equipment for soil, asphalt, bitumen, concrete, cement and aggregates used in civil engineering. Cooper have a wide range of soil testing products and related accessories in the product portfolio, which include equipment for field inspection and sampling, laboratory testing, soil classification, thermal and weathering properties, compacted road base and subbase soils and soil permeability and dispersibility. CBR Machines, soil compactors, oedometers and cone penetrometers are widely supplied globally and are surpassing customer expectations.











Stand	Company	Description
20 & 21		Van Walt is one of the leading suppliers of high quality groundwater, soil and water sampling, monitoring and research equipment. At the heart of their business and what defines them is the choice of 'best-in-class' equipment and their core values. From soil drilling and window sampling systems; water level loggers; sampling pumps; logging stations; water quality meters to telemetry that supplies 'mm' accurate data from on-site sensors directly to a desktop, tablet or mobile - they continually innovate, invent and learn to improve what they do and offer.
22 & 23		Ibbotson Drilling Services Ltd specialises in the manufacture and distribution of quality drilling consumables, whilst providing back up and support to ensure your drilling projects run smoothly. Their head office is currently in United Kingdom, with international support facilities located in Kenya, UAE, India and USA. This network allows them to be able to offer a great level of service and support to all of their customers around the world.
24		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.
25		MP Awards is a non-profit organisation who have been developing qualifications specifically designed for the quarrying, mineral products, mining and related manufacturing industries since the 1980's and are industry experts in helping businesses to maintain a competent workforce. They work in collaboration with employer organisations, the HSE, professional institutes and trade associations to ensure there is access to relevant qualifications, accreditation services and industry schemes to support the sectors drive towards a fully competent workforce.
26		Over the past 31 years, Van Elle has established a reputation for delivering high quality piling and ground engineering solutions throughout the British Isles and overseas. Steady year-on-year growth further confirms Van Elle's position as the most successful and largest independent piling and ground stabilisation contractor. Recognised in their sector for their expertise, innovation and technical excellence, they were proud winners of the 2015 Construction News Awards' 'Ground Engineering Contractor of the Year', the 2015 Ground Engineering Awards' 'Contractor of the Year', the Nottingham Chamber of Commerce' 'Business of the Year' and 2 Offshore Excellence Awards.
27		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.
28		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.
29		Controls is a global leader in equipment for materials testing in civil engineering. With its Wykeham Farrance brand and continuous research and development, Controls is at the forefront of technology providing solutions for advanced geotechnical testing. An experienced UK team ensures that Controls is able to provide comprehensive service and support to its customers. Recent product launches include the Shearmatic fully automatic electromechanical shear box and Hydromatic standalone pressure and volume controller for triaxial testing.
30		Clear Solutions International Limited is an independent drilling fluid specialist, employing a team of geotechnical specialists and drilling fluids engineers across Europe. Working extensively on high performance drilling and underground construction projects, they pride themselves on providing an environmentally friendly world-class service.
31 & 32		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.
33		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.
34		1st Line Defence are the UK's foremost providers of unexploded ordnance (UXO) risk mitigation services, addressing and providing solutions to the risk posed across the UK from unexploded bombs and munitions related to current and former military land use and aerial bombing.
35		ARCO are a production company specializing in: Manufacturing rock bolting systems like self-drilling bars and continuous threaded hot rolled bars for the Italian and Export market; Supplying pipes to be used mainly as micropile, either welded or seamless, in accordance with the requirements of the Ministerial Decree; Supplying metal carpentry work in accordance with the UNI EN 1090-1 certification.
36		Drill Service S.r.l. sell products and accessories dedicated to drilling and perforation. They deliver solutions that meet the needs of customers both domestic and international, supported by a highly flexible production line. Drill Service was founded in 1991 by technicians with years of experience in the drilling sector. All the equipment that the company produces are tested in yard. Drill Service also sells specific equipment to major Italian and international builders. Drill Service has a warehouse for the sale and retail of equipment with over 1.000 items and accessories stored that are required for specialized operators in the field of drilling.



Stand	Company	Description
37 & 38	 <b>DETS</b>	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.
39	 <b>Incofil Tech</b>	Incofil Tech are a production company specializing in safety solutions. Thanks to their large experience and know-how, Incofil Tech have diversified its activities from the lifting sector for industry and forestry, into slope consolidation systems. They also specialize in protection against unstable rock blocks and avalanches (Rockfall barriers, Avalanche protection kits, Single-anchor systems, Rope panels for active consolidation,) as well as the use of stainless steel cable in urban and interior design and decoration.
40	 <b>TPA</b> Portable Roadways	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.
41	 <b>BGS</b>	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.
42	 <b>Landmark</b> Information	Landmark Information has been creating, analysing and adding value to geospatial data for over 25 years. It combines data, mapping and technology to help customers in a range of sectors to streamline their operations, deliver insights and reduce risk. This includes customers in environmental consultancy, construction and development, conveyancing, surveying, lending, utilities, real estate management, estate agency, land acquisition, insurance and government markets. It can also apply sophisticated risk models and workflow solutions to its data and mapping enabling customers to make smarter decisions and to carry out tasks more efficiently and effectively. As experts in environmental due diligence and risk assessment for land and property, Landmark supplies a range of services from desktop screening analysis and reports through to onsite consultancy work and complete risk management. The team is also involved in a number of exciting projects relating to innovations in climate change risk assessments and adaptation reporting.
43	 <b>Leca</b>	Leca® UK are the UK's leading lightweight aggregate supplier. Leca® LWA is used in many civil engineering and geotechnical applications from road and rail embankments to bridge backfills and salvaging retaining walls. A natural material and just 15% of the weight of traditional fill materials Leca® LWA is an easy choice to reduce over-burden, delivery programmes or structural costs; it is an inert, multifunctional material which has been in production in Scandinavia since the 1930s and is now widely used throughout the UK and Europe. With its self-draining properties the material is also a winner for green roofs, sports stadia, landscaping and horticultural projects. Moreover Leca® LWA has proven that it is just as useful in Biofilters, Swimming Pool backfills and even arrestor beds on high speed motor racing tracks, test facilities and airfield runways.
44	 <b>CONCEPT LIFE SCIENCES</b>	From routine testing, through to monitoring and specialist analysis, Concept Life Sciences provide an extensive range of integrated support focused on the life sciences, consumer services, industrial and environmental services. Their highly-experienced team is focussed on technical excellence and providing the flexible support their clients demand. They store test reports online in their bespoke Laboratory Information System to provide secure, quick and easy access to results. All their work is carried out in modern well equipped laboratory facilities.
45	 <b>GeoSonic</b>	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.
46	 <b>ice</b> Publishing	ICE Publishing, established in 1836, is a leading provider of information for academics, researchers and practitioners worldwide in the fields of civil engineering, construction and materials science. As the publishing arm of the Institution of Civil Engineers, ICE Publishing produces a wide range of publications that disseminate best practice, expert advice, and ground-breaking research. The ICE Virtual Library hosts all of ICE Publishing's e-content including: Over 1400 eBooks; 34 peer-reviewed journals and archives of current and legacy journals and proceedings.
47	 <b>Live</b> Trakway	Live Trakway are the pioneers of the temporary access industry. They design solutions using their 250km of trakway and 200km of barriers and fencing. Organised by 350 experts, they promise to deliver a quality product and service, on time, every time and at a fair price. Live provide expertise and a wide range of equipment for the infrastructure sector and have experience of working on projects involving rail, telecoms and construction.
48	 <b>Technidril</b>	Technidril is a French company, founded in 1989 and is present in more than 70 countries. They specialize in designing, manufacturing and distributing drilling and coring consumables. Their product ranges cover the following markets: Mining (both exploration and production); Construction; Water wells; Quarries and Geotechnical.
49	 <b>Chemtest</b>	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.
50	 <b>safety solutions ltd</b>	EB Safety Solutions provide the very best advisory services to assist small and medium size companies with their health and safety requirements. Specialising in the construction and geotechnical sectors, their consultants combine a wealth of experience and knowledge with a common sense, practical approach to health and safety. EB Safety Solutions offer practical steps to protect people from risk and assist organisations to comply with health and safety law. They offer health and safety advice, assistance and training courses tailored to your needs and requirements.



## Outdoor Exhibitors

Stand	Company	Description
01	 <b>NORTH EQUIPMENT LTD</b>	North Equipment Ltd is based in Oundle, Northants with workshop and service facilities covering a range of Comacchio CH rotary and CFA rigs with weights from 40 ton to 65 ton. They are appointed agents for Comacchio Heavy Equipment s.r.l. for the UK and the Republic of Ireland. In addition, they are pleased to offer a fleet of CFA and rotary rigs for hire.
02	 <b>JKS BOYLES</b>	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.
03		Premier Plant Engineering was established in 1995 making it the longest established company in the UK for manufacturing dynamic probing & soil sampling machines. All of Premier's products are designed and manufactured in house at their modern workshop at Haslingden, situated in the Rossendale valley, enabling them to maintain high standards of quality and remain competitively priced. Premier produces one of the most reliable, robust & operator friendly site investigation machines on the market and has many clients in the UK and overseas, and with their excellent customer service and after sales service it makes for a winning team.
04		RGI started over 10 years ago with 1 Archway competitor dart rig. They now run 3 window sampling rigs, a hand held window sampling setup for those difficult to access sites, whilst also having a electric rig which cuts out fumes and is much quieter. They have a concrete coring attachment which will core up to 150 mm diameter and for hole greater than this they can supply a separate concrete coring set up which will core up to 300 mm. Their crews take great pride in leaving a site in clean and tidy manner taking great care in making sure all your installation's are installed to the best possible standard.
05	 <b>casagrande UK</b>	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.
06		S M Associates are an international geotechnical specialist established in 2016 to provide high quality specialist services for the geotechnical and associated industries focussing on high quality drilling, sampling and testing services. No matter how big or small your project, they can help you. From their project management through to their sampling techniques - they can provide dynamic solutions to all of your most pressing Ground Investigation needs.
07	 <b>MGS</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.
08	 <b>IN SITU</b> SITE INVESTIGATION	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.
09	 <b>Rockbit UK Ltd</b> Drilling Rigs & Equipment	Rockbit UK Ltd are 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 2017. 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.
010	 <b>GeoSonic</b>	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.



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