Geotechnical Courses Soil Description Work-shop 27th September 2017

2nd November 2017

Rock Description Workshop



28th September 2017 7th December 2017

Health & Safety Courses

10SH Safe Supervision (3 Day)

6th - 8th September 2017

10SH Avoiding Danger (1 Day)

21st July 2017



10SH Working Safely (1 Day) 18th August 2017

Geotechnical Courses

Geo Foundation Design

21st September 2017

Geotech' Lab Testing Awareness

5th October 2017



In Situ Testing

23rd November 2017



BIM for Better Engineering

Keynetix take a look at how geotechnical BIM can help in any situation

CSCS Card Lacks Clarity

theGeotechni

Geotechnica

Review of the

geotechnical

An in-depth review of the content and

discussions had at this year's geotechnical

conference

extravaganza

The BDA call for clarity on confusion surrounding CSCS card requirements on site

BDA Emerging Best Practice

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

August 2017 | Issue 60



GEOTECHNICAL COURSES

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- How Geotechnical BIM Can Lead to Better Engineering In the first entry into this month's issue of theGeotechnica, geotechnical data specialists Keynetix examine the importance of Geotechnical BIM and the value it can hold.
- Calling for Clarity: CSCS Card Confusion
 Following changes made to their carding scheme, BDA Members
 are calling upon CSCS to end confusion regarding non-constructionrelated staff being granted access to sites. Since the changes came
 into place, non-construction personnel have been denied access to
 sites across the country due to not having a relevant CSCS card.
- Geotechnica 2017 Conference Review: 2020
 Vision for the Geotechnical Industry

The following article is an overview of the content and discussions had at the geotechnical conference portion of Geotechnica 2017 - the UK's largest geotechnical conference and exhibition. The presentation slides from the event can be found on the Geotechnica 2017 website here.

27 Directory





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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: 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: 18th August 2017 6th October 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

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Welcome

Welcome to the 60th Edition of **theGeotechnica** - the UK's fastest growing online geotechnically focussed e-magazine.

In the first entry into this month's magazine, geotechnical data specialists Keynetix examine the importance of Geotechnical BIM and the value for money it can demonstrate, as well as it's ability to improve the client's understanding of any issues that may arise on site.



Following changes made to their carding scheme, BDA Members are calling upon CSCS to end confusion regarding non-construction-related staff being granted access to sites. Since the changes came into place, non-construction personnel have been denied access to sites across the country due to not having a relevant CSCS card. Our second article this month focuses on this CSCS card issue.

The final article in this month's issue is an overview of the content and discussions had at the geotechnical conference portion of Geotechnica 2017 - the UK's largest geotechnical conference and exhibition. The presentation slides from the event can be found on the



Geotechnica 2017 website here.

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



HOW GEOTECHNICAL BIM CAN LEAD TO BETTER ENGINEERING

In the first entry into this month's issue of theGeotechnica, geotechnical data specialists Keynetix examine the importance of Geotechnical BIM and the value it can hold.

Keynetix' article in the May issue of theGeotechnica focused on the significant time and cost savings that can be realized by investing in geotechnical CAD and BIM.

Our Geotechnical BIM cost calculator annual shows savings for geotechnical specialists can reach tens of thousands of dollars.

However, these are relatively

"... these are relatively small when compared with the potential overall project savings..."

savings, should a ground-

related problem be identified during the investigation phase. Early identification can avoid costly changes to design that can arise when having to deal problems uncovered during construction.

While the wider benefits of using geotechnical CAD and BIM can be difficult to quantify, they are certainly significant:

- Desk studies and site investigations are more focused
- Engineers can react faster to potential issues on site
- A more complete picture of the ground can be built
- Understanding of ground behavior is improved, leading to better design
- Communications the design team, as well as with the client and other stakeholders are improved.

Deliver value for money focused through investigation

Site investigations fundamentally about identifying anomalies in the ground that, if left unidentified, could add considerable cost to a project.

Geotechnical BIM can be a boon during the desk study, as it presents an easy way to compile and visualize data from a variety of sources – historic boreholes, site investigation reports, geological survey maps and so on - enabling a better understanding of what is

going on, even before a spade (or borehole tool) is put in the ground.

It is important that the desk study is carried out in the context of the project, so incorporating designs and plans (from the overall project BIM, for example) at the desk study stage can ensure that the site investigation is designed with the project clearly in mind.

"This means a site investigation is building on (and enhancing) prior knowledge, rather than starting from scratch..."

This means a site investigation is building on (and enhancing) prior knowledge, rather than starting from scratch - it allows sampling, monitoring and testing to be optimized from the outset, offering better value for money in the long run.

React faster on site to investigate potential issues

beats having a geotechnical engineer on site who can respond to what comes out of the ground during the investigation. Geotechnical BIM can play an important role in helping the engineer, as it enables results to be quickly visualized in context (if, for example, an area of weak, waterlogged ground coincides with a heavy load from a proposed structure), often

small when compared with the potential overall project



within 24 hours, if not sooner.

This makes it easier to refine investigations as they proceed. An extra borehole can be sunk, more samples can be taken and instrumentation can be installed, for example, at relatively low cost. If data is only analyzed once fieldwork Alongside is over, it can be too late, and too expensive, to investigate anomalies, further.

Get the complete picture

Geotechnics is like peering at a famous painting through pinholes; each one giving only limited detail. It is how these details are pieced together that counts when building a

Geotechnical BIM offers two benefits in this regard. First, the ability to compile large amounts of data from different sources creates a more comprehensive 3D picture of the ground and second, the ease of drawing cross-sections

the model to be viewed from a number of different angles. As a result, geotechnical engineers can gain a better understanding of the ground conditions and are more likely to spot any potential issues.

increasing opportunity for identifying estimates material volumes and improved.

"On a recent residential project we could predict material volumes and optimize the final landform design to balance the complete picture of the ground. earthworks, so there was no need to import material or dispose it off-site. For instance, we ensured there was enough top soil for gardens and soft landscaping, which would have been very expensive to import."

Wardell Armstrong

(in seconds, not hours) allows Communicate with the wider team to improve design and construction

The ability to visualize and share complex geotechnical problems within the design and construction teams can add value to the geotechnical the data. A 3D model can bring the geotechnical report to life, enabling non-geotechnical professionals to relate to, contamination, can also be and fully understand, how problems in the ground could affect the project and start to develop and optimize solutions to deal with them.

the client's Improve understanding of the issues

It is important for clients (and other stakeholders) to understand the significance of any geotechnical problems. It is questionable whether the geotechnical report is the best way of highlighting these.

Chris Smith, Technical Director, Geotechnical BIM's ability to rapidly produce visuals





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improves the client's awareness and understanding and should also increase the significance and bearing assigned to the geotechnical aspects of the project.

"Being able to use rendered images and fly-throughs of models was a real bonus, as the client could visualize the design and could have far more input in geotechnical the process.

"We held workshops using video conferencing, making realtime changes to the model to explore different options. For example, we could change road alignments and see how this would affect the landform design and construction costs."

Chris Smith, Technical Director, Wardell Armstrong

"... a fully integrated, multidisciplinary BIM, including a ground model, can deliver significant value to both engineers and the wider design team."

Geotechnical BIM: delivering better engineering

Clearly, a fully integrated, multidisciplinary BIM, including a ground model, can deliver significant value to both geotechnical engineers and the wider design team.

Geotechnical BIM's ability to rapidly deliver 3D visualizations of the ground, from a variety of angles, offers the ability to reduce project risk and costs during construction. Site investigations are more focused and offer better value for money, the understanding of what is going on in the ground is improved and communication of complex problems to non-geotechnical professionals is far easier.

Ultimately, it is an important aid for geotechnical professionals' and should increase the value of geotechnical engineering among the project team and in the eyes of the client.



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CALLING FOR CLARITY: CSCS CARD CONFUSION

Following changes made to their carding scheme, BDA Members are calling upon CSCS to end confusion regarding non-constructionrelated staff being granted access to sites. Since the changes came into place, non-construction personnel have been denied access to sites across the country due to not having a relevant CSCS card.

Following changes to the non-construction-related staff (CSCS) System that '...card schemes CSCS workforce. carrying the CSCS logo must only certify those occupations with nationally recognised construction-related

qualifications,' British Drilling Association (BDA) members are reporting issues relating to

Construction Skills Certification being wrongly refused entry to Carding some sites that operate a 100%

> The wide range of services required on many construction projects means there are times when individuals may need to attend a site to perform a non-construction activity, such as catering, drivers delivering

materials, managerial security etc. These are not construction workers and the CSCS has therefore stopped issuing cards for over 60 non-construction related

"This change to the scheme however is leading in some instances to people being wrongly refused access."

occupations. This change to the scheme however is leading in some instances to people being wrongly refused access.

Speaking about the issues Anne Baxter, Chair of the BDA's said: "The BDA's members not questioning the important role the



Wed 7th February 2018 Solihull, West Midlands B92 0EJ)

Wed 25th April 2018

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.

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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

www.britishdrillingassociation.co.uk

"... there appears to be a basic misconception that personnel arriving on site to perform non-constructionrelated services should be in possession of a CSCS card. "

Construction Skills Certification Scheme performs in improving safety and standards on-site. However there appears to be a basic misconception that personnel arriving on site to non-constructionperform related services should be in

possession of a CSCS card. This clearly demonstrates a misunderstanding of the scheme and undermines the construction industry's desire for a fully qualified (not carded) workforce.

from members of problems with Principal Contractors (PC) applying a strict 100% CSCS Card policy irrespective of the activity being undertaken. investigation Many site companies undertake onsite soils testing. Laboratory Technicians who attend such sites do not undertake any construction work and yet they are having to obtain CSCS Cards not appropriate to their disciplines simply to gain

"The BDA is calling on CSCS to issue more guidance, aimed in particular at PCs [Principal Anne added: "We have reports Contractors]..."

> The BDA is calling on CSCS to issue more guidance, aimed in particular at PCs, and put an end to the thinking that only CSCS-carded people can be allowed on-site.

> information more BDA the contact the BDA by email (office@ britishdrillingassociation.co.uk) or visit the BDA website http:// www.britishdrillingassociation. co.uk.



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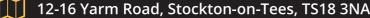














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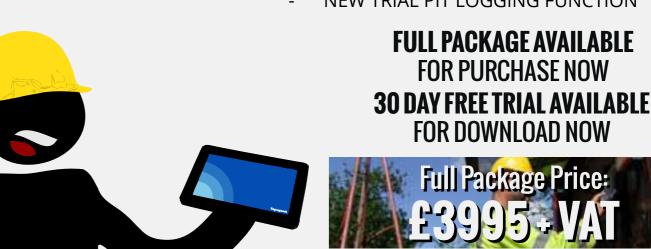
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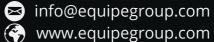
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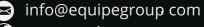








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GEOTECHNICA 2017 CONFERENCE REVIEW: 2020 VISION FOR THE GEOTECHNICAL **INDUSTRY**

The following article is an overview of the content and discussions had at the geotechnical conference portion of Geotechnica 2017 - the UK's largest geotechnical conference and exhibition. The presentation slides from the event can be found on the Geotechnica 2017 website here.

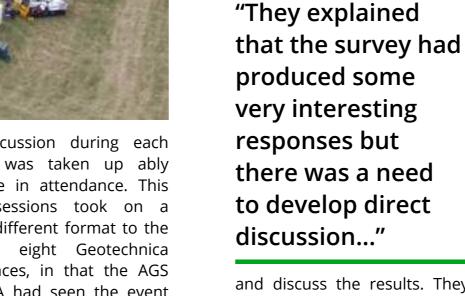
buzz around Geotechnica, and geotechnical

This year there was a real high quality sessions at the conference. there were high expectations Visitors were not let down and for another set of interesting, the opportunity for debate

and discussion during each session was taken up ably by those in attendance. This year's sessions took on a slightly different format to the previous eight Geotechnica conferences, in that the AGS and BDA had seen the event as an opportunity to engage with the wider geotechnical community after completion of their joint survey. Copies of the presentations are available on the Geotechnica 2017 website.

Session 1: AGS/BDA Task Force - Spotlight on the Industry

Neil Parry, AGS Chair, and Martyn Brocklesby, BDA Vice Chair, provided an overview of the purpose of the recent industry survey; it's aims, the results; and the Association's desires to engage industry



and discuss the results. They explained that the survey had produced some very interesting responses but there was a need to develop direct discussion and only then could the industry consider further initiatives.

the four key areas identified and comment.

Availability of suitably

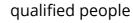


Image courtesy of @ags_geotech on Twitter

- Raising understanding those involved in the procurement process
- Improving the image of the industry and attracting young recruits
- **Encouraging innovation**

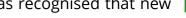
In general, the audience had mixed views on all of these subjects which was not unlike the results of the survey. It was was playing a key clear that some organisations within represented audience have a very pro- major construction active approach to some of the subjects discussed, such as local engagement with **projects."** The session concentrated on schools and colleges. There were audience participants The others were and these were happening in the industry.

operative side. There were a number of comments relating to how new recruits might view our industry in comparison to joining another industry which linked with discussion point 3 about improving the image of the geotechnical sector.

"It was recognised that new rigs were being purchased and the industry role in all of the and infrastructure

press articles were within the survey as future who believed that the industry discussed and parts of the challenges for the industry. was in very good shape and audience were disappointed These are outlined below and others who believed that it that a negative viewpoint had the joint Chairs threw them out needed a shake-up. Some been aired and the industry to the audience for feedback organisations were having no should concentrate on the difficulties recruiting whilst good things which were

both from the technical and It was recognised that new





and the industry was playing a key role in all of the major construction and infrastructure how CEN was projects.

With respect to innovation, the cost to innovate was discussed and there was a belief that this **body to the** would always be driven by the Contractor but not necessarily supported by the Clients. and therefore any Without this support, which does not have to be through sponsorship of the research was unlikely to project, most Contractors would be reluctant to make such huge investments.

Session 2: Standards and standards - UK Implementation and Compliance

Professor David are some major revisions that careful planning should

rigs were being purchased "Professor Norbury explained about a separate and independent **European Union** impact from Brexit affect the current Standards..."

underway including revision of EC7 Parts 1 and 2 resulting in new publications due in 2020. Professor Norbury Norbury, explained about how CEN was Member of B/526/3, Convenor a separate and independent of ISO TC 182 WG1, UK expert body to the European Union on ISO TC 182 and CEN TC and therefore any impact from 341 and CEN TC 396 WG2, Brexit was unlikely to affect the introduced the session and current Standards or review provided an insight into the process for new or revised current revisions underway Standards. He explained that within the CEN and ISO the UK industry was poor with Currently there respect to compliance and

not necessarily lead to huge cost differences. This was not necessarily agreed within the audience. He challenged the audience to participate in the review process and emphasized that this was the industry's opportunity to ensure that they were not saddled with Standards which they believed they could not work to. He also explained that if Company's chose to not work to the Standards that they should have a robust documentation to explain why they had not as this would be required by the Courts should something untoward happen.

Matthew Baldwin, UK lead delegate for ISO-TC182-WG4, Member of B/526/3 and Convenor of TG1 within WG2 on rewrite of Eurocode 7 Part 2, followed on from David's talk and suggested that the UK had always cherry picked parts from the Standards which it wanted to comply with. He explained that the Standards are not Eurocodes / European standards, but UK standards and the clue is in their titles "Matthew made a compelling argument as to why standards and Standards were important and, if everybody wanted a 'level playing field', essential."

e.g. BS EN ISO 22475. Matthew made a compelling argument as to why standards and Standards were important and, if everybody wanted a 'level playing field', essential. Matthew explained that the BDA/AGS survey had indicated that nearly 40% of respondents were not fully familiar with the new Standards and suggested that this was a major concern.

As Lead UK Expert for the revision of BS EN ISO 22475 Matthew then led his talk into the revision and explained why this was a prime example of why the UK should be active in the Standards process. He

discussed how the current proceeds. version was confusing for the UK as some of the techniques and practices were unfamiliar whilst others purporting to be UK practice were poorly described or documented. The link between Categories and Classes is not as clear as it could be and the tables which attempt to clarify their definitions are inconsistent and misleading. This has led to Class 1 samples being required or Category A samplers being specified in materials where the ground conditions are difficult and unlikely to achieve the class required. He also believes that there is a lack of appreciation of how the sampler(s) and material types relate to laboratory tests, material parameters and the structure(s) for which the GI has been commissioned. The review of BS EN ISO 22475 has had one meeting He then went on to describe so far and a further meeting areas where the geotechnical is scheduled in October. industry needed to be more Matthew and Julian Lovell, vigilant because of the nature the other UK expert on WG4, of the works undertaken and

Session 3: Occupational Health and Safety

This session was started by John Underwood of the Health and Safety Executive. John explained how the legal process worked and what would be expected from the geotechnical industry. He explained about what would deemed 'reasonably practicable' and that companies would be investigated to determine if they followed their documented procedures if an incident occurred. He also advised that compliance/ adherence to HSE guidance and industry guidance and Standards would also be investigated. He provided a summary of the most common hazards in construction and their link to geotechnical work.

will provide further comment the sites it works on and these within theGeotechnica as this included access,

Hazard	Deaths/Year
Asbestos – fatal lung damage	~2000
Silica dust – fatal lung damage	~500
Diesel fume – fatal lung damage	~300
Falls from height	~20
Falling materials / equipment	~10
Plant & Vehicles – run over or crushed	~10
Excavation collapse	~2

"He then went on to describe areas where the geotechnical industry needed to be more vigilant..."

on gradients, services, voids, contamination, ordnance, geological gas under pressure and artesian gas and water.

an independent analysis of likely to be under rated due other investigation methods that not all operators adopted

to increased loading whilst The last session at Geotechnica snatching or using snatch 2017 was blocks as these loads are David Jones, Chief Engineer, not clear within the current United Utilities, Geotechnical specifications. Jon explained Engineering, that the BDA were working and E&S and John Bussey with the rig manufacturers to Qualifications resolve these issues.

summarised a number of of the recent embargo which issues which have been arising United Utilities imposed on during AGS Safety Meetings their ground flammable / toxic / asphyxiant and centred around safe contractors trial pitting. Adam explained significant incidents. that the AGS had provided explained that as a result of the John's talk was followed by guidance, however, due to two incidents and in particular two short presentation by these other issues it was time the incident which resulted in Jon Christie, Chair of the BDA for a review but this required a thumb amputation, the UU Safety Working Group and input from the geotechnical team brought together over Adam Latimer, Chair of the community. Adam explained 70 participants to identify the AGS Safety Working Group. that trial pitting is seen as a causes, create solutions and Jon's talk was centred around cheap method of investigation, also to investigate alternative a summary of findings from however, questioned whether investigation methods. David other methods might be more explained that UU were very the latest cable percussion rigs appropriate. He explained pleased with the contributions and current drilling practices. that practitioners should now made during It provided a number of areas consider how they control meetings and where the findings suggested the risk from asbestos in soil, working group that the current specifications contamination, falls from A solution comprising a and configurations of the height, collapse, services, UXO, retro-fitted restraining rigs were incorrect and could confined space and manual was provided which mislead users and went on to handling. He questioned if a manufacturer adopted suggest that some common trial pitting exercise, taking into this has become a requirement practices may lead to failure account all of these hazards, on cable percussion rigs for of ancillary equipment or the would still be as cost effective all UU projects. David raised rig itself. Other conclusions as it is now. In general, the a concern that although a included that current rope audience believed that trial solution had been found and and lifting accessories are pitting still has a benefit over adopted by the manufacturer

but currently there is not a consistent approach to what is expected with respect to risk control and therefore additional guidance would be welcomed.

Session 4 Improvements and Future Advancements

delivered Reservoirs Development Manager, MP Awards.

Adam gave a talk which David presented an overview investigation after two David the initial subsequent "David's team would prefer to see consistency across the industry when modifications have been agreed."

the manufacturers design. David's team would prefer to see consistency across the industry when modifications the UU team were satisfied by and the manufacturer to allow the embargo to recently be lifted but recognised that more work was still required.

John Bussey provided a very comprehensive talk discussing

a review of the National working Occupational by BDA to develop a new Land more NVQ centres. Drilling NVQ based on the new NOSs. MP Awards was ideal for this type of NVQ as they were not interested in large

BDA requirement to numbers or the commercial improve the Land Drilling aspect but the quality of the NVQs. He explained that NVQs. John explained how they MP Futures had carried out had assembled an industry party comprising Standards trade associations, assessors (NOS) which then required and companies from the a full review of the NVQ. He extractives, directional drilling advised that MP Futures and land drilling sectors. and MP Awards were part He told the audience that of MPQC which is the sector only when he had started skills council for mining and the process had he better extractives. As such they are understood how complicated very familiar and comfortable the Land Drilling NVQ actually have been agreed. David and with specialist services and is, but they have listened to the welcomed Land Drilling. John working party and believe this the response of the industry explained that MP Awards, has created a more robust and the Awarding Body, for the fit for purpose qualification and sector had been approached hoped it would be taken up by

> Full presentations can be found online: www.geotechnica.co.uk





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