Geotechnica 2022

THE UK'S PREMIER GEOTECHNICAL CONFERENCE & EXHIBITION

EXCLUSIVELY HOSTING AGS ANNUAL CONFERENCE

Wednesday 6th & Thursday 7th July 2022

EVENT PROGRAMME

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Welcome to Geotechnica 2022

It is with much delight that we welcome you back to the Warwickshire Event Centre, the proud home of Geotechnica 2022.

This year we are extremely happy to welcome the Association of Geotechnical and Geoenvironmental Specialists (AGS) on board to deliver their Annual Conference as part of the Geotechnica celebrations. The AGS Annual Conference is a key event in the geotechnical and geoenvironmental calendar, so to have the AGS talks complementing the already stellar Geotechnica exhibition and conference line-up is a real bonus. We hope all attendees will make the most of the opportunity and sink their teeth into an exciting two days of presentations.

The exhibition for this year is entirely sold out, with representation from all corners of the industry leaving the exhibition halls bursting at the seams. From clients such as National Highways and Network Rail, to large consultancies like AECOM, through to contractors like BAM Ritchies and Strata Geotechnics, specialists like Geoterra and manufacturers and suppliers such as Casagrande and MGS - every link in the supply chain is here this week. Make sure you take a thorough tour of the halls to soak in all of the experience and knowledge that our exhibitors have to share.

Speaking of our sponsors, we would like to thank them for their support in the delivery of Geotechnica 2022. Without them, this event wouldn't be possible. Thank you to Gold Sponsors: AECOM, BAM Ritchies, Cadagrande UK and Strata Geotechnics; to Silver Sponsors: Davis Trackhire, GenAir, Geotechnical Engineering, MGS, Robertson Geo, Soil Engineering, Structural Soils and TerraRoc; and finally thank you to Bronze Sponsors: ALS, European Geophysical Services, Fielders, Geoterra, Leca and TerraDat. Visit their stands to see the very best products, plant and services that this industry has to offer.

We sincerely hope you have an enjoyable experience at Geotechnica 2022 and we look forward to meeting and greeting you all during the course of the show.

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OPENING TIMES

Wednesday 6th July: 09:00 - 17:00

Thursday 7th July: 10:00 - 16:00

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AGS Association of Geotechnical & Geoenvironmental Specialists

ANNUAL CONFERENCE PROGRAMME 2022

WED 6th JULY 9:00 – 15:15



Welcome to our 2022 AGS Annual Conference. This year we have an exciting development in that, to provide additional interest and benefit for attendees, we are teaming the conference with the Geotechnica trade show within the excellent setting of the Warwickshire Event Centre. We hope you will enjoy the programme of speakers and the networking opportunities available, and there will be a wide range of exhibitors to keep you up to date on developments across our industry.

We have selected some interesting and diverse presentations by excellent speakers on issues affecting our industry, and you will also hear from the AGS Working Group leaders who will be updating you on their achievements throughout the year on your behalf.

As your trade association, we are constantly seeking input and ideas from the membership so that we can continue to improve our service. We look forward to receiving feedback on this new conference format. If you or your company wish to get involved in the activities of the Association, please feel free to talk to any of our Working Group Leaders at the Conference or contact us via our email address at ags@ags.org.uk

Sally Hudson

Sally Hudson, AGS Chair

PROGRAMME

09:00: REGISTRATION

10:00: OPENING ADDRESS
Sally Hudson, Regional Director at Coffey Geotechnics and AGS Chair

10:10: KEYNOTE PRESENTATION
Landslides and Climate Change: A Rapidly Evolving Geoenvironmental Challenge
Dave Petley, Vice President for Innovation at The University of Sheffield

10:40: BUSINESS PRACTICE WORKING GROUP REPORT
Vivien Dent, Technical Specialist at the Environment Agency, Working Group Leader and AGS Chair Elect

10:45: CONTAMINATED LAND WORKING GROUP REPORT
Alex Lee, Technical Director, Environment at WSP and Working Group Leader

10:50: UNIVERSITY GEOSCIENCE UK INITIATIVES TO ARREST THE DECLINE IN STUDENTS TAKING DEGREES IN GEOSCIENCE
Dr Nick Koor, Reader in Geological Engineering, University of Portsmouth (School of the Environment, Geography and Geoscience)

11:20: DATA MANAGEMENT WORKING GROUP REPORT
Neil Chadwick, Director at Digital Geotechnical

11:25: GEOTECHNICAL WORKING GROUP REPORT
Alex Dent, Associate Director at WSP and Working Group Leader

11:30: UNDER PRESSURE: TALKING ABOUT MENTAL HEALTH AND SUICIDE TO CREATE A SAFER WORKPLACE
Vicky Gutteridge, Executive Assistant and Trainer at The OLLIE Foundation

12:00: AGS AWARDS

12:15: LUNCH

13:15: CL:AIRE GOOD PRACTICE FOR RISK ASSESSMENT FOR COAL MINE GAS EMISSIONS
Steve Wilson, Technical Director at The Environmental Protection Group

13:45: INSTRUMENTATION AND MONITORING WORKING GROUP REPORT
Andrew Ridley, Managing Director at Geotechnical Observations and Interim Working Group Leader

13:50: GROUND IMPROVEMENT – KEY DESIGN CONSIDERATIONS & LESSON LEARNT
Dr. Basil Ogunmakin, Regional Director at Coffey Geotechnics

14:20: LABORATORIES WORKING GROUP REPORT
Will Fardon, Technical Director at Chemtech Environmental and Working Group Leader

14:25: LOSS PREVENTION WORKING GROUP REPORT
Jo Strange, Technical Director at CGL and Working Group Leader

14:30: SAFETY WORKING GROUP REPORT
Roseanna Bloxham, Principal Geo-Environmental Engineer at RSK

14:35: ALARP IN THE FACE OF UNCERTAINTY, APPLICATION OF ALARP PRINCIPALS TO THE MANAGEMENT OF GEOTECHNICAL ASSETS
James Todd, Technical Director at AECOM

15:05: CLOSING SUMMARY
Sally Hudson, Regional Director at Coffey Geotechnics and AGS Chair

15:15: ENDS

SPEAKERS AND PRESENTATIONS



DAVID PETLEY

Vice President for Innovation and The University of Sheffield

Dave Petley joined the University of Sheffield in the role of Vice-President for Research and Innovation in November 2016, having previously been Pro-Vice-Chancellor for Research and Enterprise at the University of East Anglia. Dave is a geographer and earth scientist with a strong interest in the development and support of research and innovation at the national, regional and institutional levels. Since January 2020 he has been the Vice-President for Innovation.

PRESENTATION

Landslides And Climate Change: A Rapidly Evolving Geoenvironmental Challenge

Landslides are one of the most pervasive hazards worldwide, generating high economic, social and human costs. Slopes are sensitive to environmental forcing, most notably to changes in extreme events. There is widespread concern about the potential impacts of climate change on slope behaviour, and thus on potential losses.

Using a unique long-term dataset of fatal landslides, this presentation will examine the ways in which climate change is causing changes in landslide occurrence. Four specific situations will be examined:

- The impacts on slopes of the increases in peak rainfall intensities that are being seen in many environments;
- The effects of wildfires in causing changes to vegetation and soil conditions, driving changes in the frequency of mudslide and mudflow events;
- The effects of high altitude and high latitude permafrost melting on slope behaviour; and
- Changes in complex cascading landslide hazards, especially in high mountain environments.

These four settings will be used to draw some conclusions about the implications of climate change for geoenvironmental activities.



DR NICK KOOR

Reader in Geological Engineering, University of Portsmouth (School of the Environment, Geography and Geoscience)

Nick is an Engineering Geologist who currently teaches Geomechanics at the University of Portsmouth to both Undergraduate and Postgraduate students. Prior to being an academic, Nick worked for 22 years on major Civil Engineering and Building Engineering projects in both the UK and Asia. He is the current Chair of the University Geoscience UK committee and is leading the development of a Degree Apprenticeship in Geoscience.

PRESENTATION

University Geoscience UK initiatives to arrest the decline in students taking degrees in Geoscience

The significant reduction in students taking geoscience as a degree has been discussed in many fora over the past three years and this is currently having some impact on recruitment of graduates into the ground engineering sector. Nick will present the various initiatives that University Geoscience UK are undertaking to, in part, try to reverse this trend. He will also present some new research carried out by the University of Portsmouth on young people's perception of geoscience which has some surprising conclusions and will impact the way we try to reverse this trend.



VICKY GUTTERIDGE

Executive Assistant and Trainer at The OLLIE Foundation

Working in education for over 20 years, Vicky is a qualified teacher and a lead facilitator for mental health and wellbeing training for the OLLIE Foundation. She is ASIST trained in suicide prevention and an Innate Health Education and Resilience facilitator of iheart's mental health education programme.

PRESENTATION

Under Pressure: Talking About Mental Health and Suicide to Create a Safer Workplace.

The Geoscience and Construction industry is a pressurised, risky business. The mental health risks are just as significant as the physical risks, with industry professionals being almost four times more likely to take their own life than those working in any other industry.

But change is afoot, and every individual professional has the power to make a big difference. Join the talk to:

- Consider the mental health risk factors for the industry
- Gain top tips to cultivate a supportive workplace to improve mental health
- Learn how to keep someone safe from suicide
- Identify resources for further support for you and your colleagues

Vicky's presentation may include the use of polls. To access them, please scan this code when instructed.



STEVE WILSON

Technical Director at The Environmental Protection Group Limited

Steve has spent the past 30 years trying to reduce over conservatism in ground gas risk assessment. He has contributed to most of the recent UK guidance. He is a Chartered Engineer, a Society of Brownfield Risk Assessment (SoBRA) Accredited risk assessor and a UK Registered Ground Engineering Adviser. Steve is one of the authors of the CL:AIRE Good Practice for Risk Assessment for Coal Mine Gas Emissions.

PRESENTATION

CL:AIRE Good Practice for Risk Assessment for Coal Mine Gas Emissions

Steve will discuss the recent CL:AIRE guidance on mine gas risk assessment including a comparison of the approach to investigation and assessment of mine gas into buildings at a site in Gorebridge in Scotland, with that adopted more recently at a site in Northumberland



DR. BASIL OGUNMAKIN

Regional Director Coffey Geotechnics

Basil has over 19 years' experience specialising in ground engineering on multi-disciplinary projects. He is skilled in designing deep foundations, large scale earthworks for transportation and infrastructure projects, embankments over soft ground, ground improvement and material reuse. He is particularly experienced in soil-structure interaction assessment through the use of numerical modelling.

PRESENTATION

Ground Improvement – Key Design Considerations & Lesson Learnt

Ground improvement techniques

have seen significant advancement over many years both in design methodologies and applications. However, as demand for developments on brown fields/marginal soils continues to grow, ground improvement works have become increasingly challenging and complex. This presentation will highlight key design considerations for some of the commonly used ground improvement techniques and applications with recent case histories.



JAMES TODD

Technical Director at AECOM

As a Technical Director in AECOM, James works across the energy, environment and sustainability business, to develop a geoscience offer in key energy sub-markets such as new fuels (namely hydrogen and ammonia), renewables (solar and pump storage hydro) and industrial decarbonisation, supporting client's transition to net zero. Alongside this, James works with public sector clients to address challenges associated with climate change adaptation and resilience, closely linked with to new energy projects in the common goal of creating a sustainable future for all.

PRESENTATION

ALARP in the Face of Uncertainty, Application of ALARP Principals to the Management of Geotechnical Assets

Risk management for our geotechnical assets is focused on reducing risks to as low as reasonably practicable (ALARP), rather than to absolute zero. This approach requires an understanding of key risk components, likelihood and consequence, but also for an appreciation of the uncertainty in these risk parameters. Geotechnical assets, by their very nature have inherent uncertainty due to many factors including material properties and behaviour. This is now being compounded by the impacts of climate changes and adverse/extreme weather that is putting more stress on our geotechnical assets and impacting the resilience of our infrastructure networks. In this presentation we will explore the key components of ALARP principals in regards to the management of geotechnical assets, the impacts of climate change on this approach and some tools geoscientists can adopt to mitigate these impacts and to allow more informed decision making.

UPCOMING AGS EVENTS

AGS WEBINAR

A GUIDE TO DIRECT STRAIN PRESSUREMETERS: FROM SITE SURVEY TO ENGINEERING PARAMETERS

THURS 10TH NOV. 11:00 – 13:00. FREE TO ATTEND WEBINAR

A sheet of paper has a thickness of about 0.1 millimetres. Direct strain pressuremeters can reliably measure changes in displacements more than 100 times smaller than this, about the wavelength of infra-red light.

In a practical sense, this level of resolution allows the shear stress/shear strain response of the ground to be determined for shear strains of less than 0.01% to over 25%. This permits a high precision assessment of ground conditions ranging from competent rocks to very soft soils.

A direct strain pressuremeter is an instrumented downhole tool measuring pressure and displacement, allowing for calculation of engineering parameters including stiffness, strength and insitu stress.

This webinar will introduce the guide and why it has been written. It will be aimed at both consultants and geotechnical contractors, with a focus on pressuremeter testing in soil, but also acknowledging the technique as conducted in rock.

For full information, sponsorship opportunties and to register for free, visit www.ags.org.uk.

AGS **THE GEOTECHNICAL DATA CONFERENCE 2022**

THURS 1ST DEC. THE BURLINGTON HOTEL, BIRMINGHAM

This all-day CPD conference, developed by the AGS Data Management Working Group, will present current developments and investigate the future of 'AGS Electronic Transfer of Geotechnical and Geoenvironmental Data (AGS 4.1.1)'. The event will also review the new AGS open-source Validator and formally release AGSi: the AGS' ground modelling transfer format. On top of this, the conference will also feature an overview into the AGS Data Management Working Group's input into the new 'UK Specification for Ground Investigation, Edition 3' (Yellow Book) and the updated requirements for data transfer/sharing.

There will also be a unique insight from major infrastructure asset owners on their vision of the importance and use of data in large organisations both now and in the future.

The Data Management Working Group will be welcoming questions from attendees (priority given to those submitted to in advance to ags@ags.org.uk on the overall AGS Data Format 'experience', lessons learned, irritations, suggested improvements for the future with discussion from a panel of experts.

Tickets are priced at £145 for AGS members and £215 for non-members. Students can attend the conference for £75. Prices exclude VAT.

For full information, sponsorship opportunties and to register visit www.ags.org.uk.

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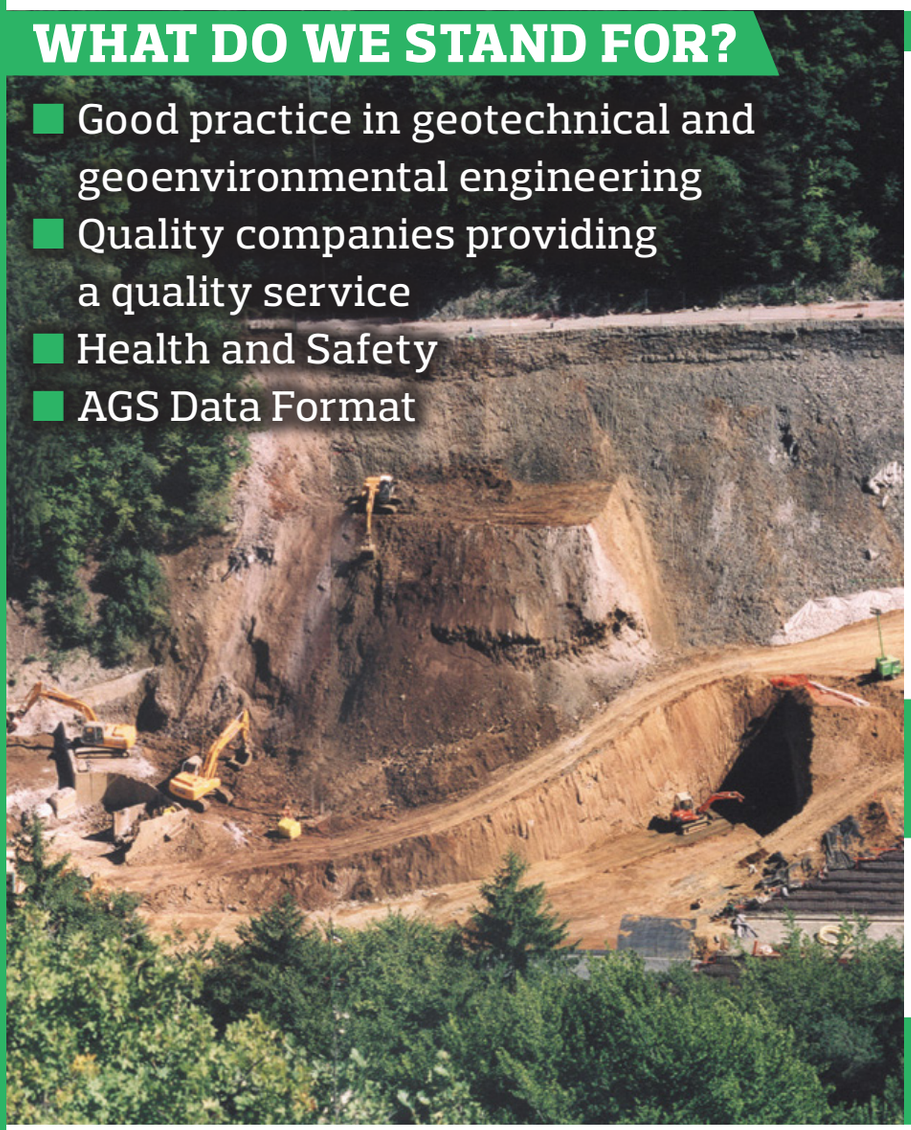
AGS Association of Geotechnical & Geoenvironmental Specialists

WHY BECOME AN AGS MEMBER?

Enhance your status in the industry. Make a statement about quality and good practice. Participate in the AGS Working Groups and help shape the industry and set the standards.

WHAT DO WE STAND FOR?

- Good practice in geotechnical and geoenvironmental engineering
- Quality companies providing a quality service
- Health and Safety
- AGS Data Format



WHAT DO WE OFFER?

- Guidance to good practice
- Listing in the Directory of Members
- AGS Magazine focused on ground engineering 'hot topics'
- Legal helpline
- Chemical safety helpline
- AGS Loss Prevention Guidance Document
- Seminars, meetings, conferences and webinars
- Collaboration with other bodies
- Liaison with UKAS
- Lobbying on matters important to the sector
- Developing and maintaining the AGS Data Format

MEMBERS CAN CONTRIBUTE BY PRODUCING SUCH DOCUMENTS AS:

- AGS good practice guidance
- AGS publications
- AGS safety guidance
- AGS client guides

MEMBERS CAN PARTICIPATE IN AGS WORKING GROUPS:

- Laboratories
- Contaminated Land
- Safety
- Business Practice
- Loss Prevention
- Data Management
- Executive Committee
- Geotechnical
- Instrumentation and Monitoring

For further information on the AGS and details on how to become a member visit **www.ags.org.uk**

Established in 1988, the Association of Geotechnical and Geoenvironmental Specialists is a non-profit making trade association which represents over 140 leading companies specialising in site investigation, geotechnics, geoenvironmental engineering, engineering geology, geochemistry, hydrogeology, and other related disciplines.



GEOTECHNICAL SHE CONFERENCE

The geotechnical and geoenvironmental sector has been accused of being the highest risk activities during the construction/pre-construction phase of projects. This is not unusual for an industry which can be very disparate and involves so many organisations of varying sizes and capabilities. It is also not unusual for an industry which has so many different specialisms across a diverse set of specialists.

The main trade bodies, led by the Association of Geotechnical and Geoenvironmental Specialists in collaboration with the British Drilling Association and Federation of Piling Specialists develops safety, health and environmental guidance which can be adopted across the whole community. The AGS also publishes Client Guides which have been used by clients to develop their own initiatives and establish their expectations from projects. This conference will provide key information about legal obligations, duties and minimising liabilities within the safety, health and environmental aspects of geotechnical and geoenvironmental projects.

Conference Programme — Thursday 7th July 2022

10:30 – 11:15 Session 1



10:30 - 10:45 Julian Lovell - Managing Director, Equipe Group

Julian is Managing Director of the Equipe Group who are the UKs leading training and vocational assessment provider. He is Immediate Past Chair of the AGS, Chair of the AGS Procurement of Ground Investigation Steering Group, Chair and Lead Author of the Yellow Book Revision Working Group, Chair of the JIWG Buried Services Group and Member of the BDA Training and Education Sub Committee. Julian has been involved in the geotechnical industry and is an active author and contributor to industry operational and safety guidance. He is also a UK Expert on TC182 WG4 which has revised and written ISO and CEN standards on geotechnical sampling and training and competency requirements for personnel working on geotechnical projects. He has been involved in the development of Level 2 and Level 3 qualifications in land drilling and is currently leading an industry working group developing a new qualification for laboratory and field technicians.

Presentation Title: Welcome to Geotechnica 2022



10:45 - 11:15 Tom Phillips CMIOSH - Director, RPA Safety Services

Tom is a Chartered Safety Practitioner and has been since 2007. Tom has worked within the geotechnical and geoenvironmental industry since 2009 and as lead consultant for RPA Safety Services, provides specialist industry support and guidance to around 20 contractors and consultants within the industry. In his capacity as a trainer, Tom delivers industry recognised training courses for operatives, supervisors and engineers and provides a nationally recognised underground services safety course widely used within the industry and many tier one civil engineering contractors.

Presentation Title: How well do you know your subcontractor?

11:15 - 11:30 Morning Break

11:30 - 13:15 Session 2



11:30 - 12:00 Jon Christie CMIOSH - Associate Director Europe UK&I, Safety, Health and Environment Lead, AECOM

Jon is a Chartered Member of the Institution of Occupational Safety and Health (CMIOSH), working within both health & safety and CDM disciplines to provide services to a wide range of clients and employers to ensure legal compliance and best practise. Jon has 12 years' experience within health and safety, working within geotechnical, construction sectors, standard developers, and regulators and 8 years' within construction management with a specialisation in drilling and piling. Jon dedicates himself to shaping the key standards within the industry bodies, including AGS, BDA and FPS, as well as British and European Standards. Jon continues to elevate HSW working and operating standards for those in which he engages, collaborates, and works with.

Presentation Title: AGS - The Benchmark



12:00 - 12:30 Richard Wilson - Health, Safety and Welfare Lead for Commercial & Procurement, National Highways

Richard joined National Highways in January 2018, as the Health and Safety Director for Major Projects, before moving in 2020 to Commercial & Procurement, where his key focus is supply chain engagement. Working with their supply chain partners to develop and implement strategic direction of the business with respect to Health and Safety based upon a risk profile approach: Risk profiling the business and the supply chain partners; Developing and implementing practical and robust integrated management systems (policy, standards, procedures); Development of people via behavioural and cultural change programmes; Promoting the safe behaviour of the workforce and supply chain. Prior to joining National Highways, Richard was the Global HSEQ Director for Arup and more recently Aggregate Industries Head of HSEQ for Europe.

Presentation Title: National Highways - Raising the Bar



12:30 - 13:00 Zita Mansi - Senior Associate, Beale & Co

Zita has specialised in environmental and construction professional indemnity law since May 2002. Her environmental practice includes defence of claims against construction consultants arising out of contaminated land issues and defending claims in negligence, public or private nuisance for losses attributable to environmental factors. Zita's construction practice focuses on the defence of claims against construction consultants and bringing claims for contribution and counterclaims for fees where necessary.



Michael Salau - Partner, Beale & Co

Michael is widely recognised and respected for his expertise in the construction and environmental sectors. He joined Beale & Co in 2018 from a leading insurance law firm where he headed up their Construction and Environmental Group. Michael advises employers, major insurers, contractors, engineers and architects on construction law, practice and procedures encompassing arbitration, adjudication and mediation as well as litigation. He also provides advice on a range of non-contentious matters and advises and defends clients on professional indemnity, regulatory and prosecution matters. Michael's environmental practice involves advising and defending clients on issues arising from pollution and contamination and any related enforcement actions. He also advises clients on insurance coverage issues relating to the clean-up of environmental damage, pollution and on environmental legislation, with a particular expertise in waste and water management.

Presentation Title: When things go wrong: Geoenvironmental Liabilities and Lessons Learnt

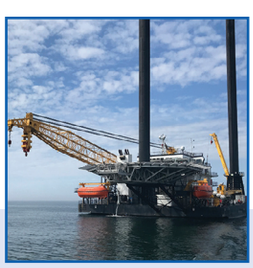
13:00 - 13:15 Q&A and Discussion

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AECOM

EARLY CAREER GEOPRACTITIONERS CONFERENCE

The geotechnical community may soon be facing one of its biggest challenges ever as geoscience degrees have reported significant declines in numbers of students on their courses. The AGS are working with the University Geoscience UK Group to monitor the effects on industry but in the meantime training of our young and early career geopractioners remains a priority.

The Early Career Geopractitioners Conference will comprise a series of hard-hitting short duration talks provided by leading UK experts. This will provide a unique training and learning development experience for recent graduates and those in the early development of their geotechnical / geoenvironmental career. The principle aim of the conference will be to engage with the future practitioners of our industry, share knowledge and provide an opportunity for discussion.

Conference Programme — Wednesday 6th July 2022

10:00 - 12:00 Session 1



10:00 - 10:15 Julian Lovell - Managing Director, Equipe Group

Julian is Managing Director of the Equipe Group who are the UKs leading training and vocational assessment provider. He is Immediate Past Chair of the AGS, Chair of the AGS Procurement of Ground Investigation Steering Group, Chair and Lead Author of the Yellow Book Revision Working Group, Chair of the JIWG Buried Services Group and Member of the BDA Training and Education Sub Committee. Julian has been involved in the geotechnical industry and is an active author and contributor to industry operational and safety guidance. He is also a UK Expert on TC182 WG4 which has revised and written ISO and CEN standards on geotechnical sampling and training and competency requirements for personnel working on geotechnical projects. He has been involved in the development of Level 2 and Level 3 qualification in land drilling and is currently leading an industry working group developing a new qualification for laboratory and field technicians.

Presentation Title: Introduction



10:15 - 10:45 Dr Peter Hepton - GI Engineering Manager, SOCOTEC

Dr Peter Hepton is a Principal Geotechnical Engineer and the Ground Investigation Engineering Manager with SOCOTEC based in the Doncaster office. He has nearly 40 years' experience in land and marine ground investigation, with a particular interest in in situ testing. He heads SOCOTEC UK's Geotechnical Services Division Technical Team, who provide technical support to the company on all aspects of ground investigation work from client liaison, tendering, fieldwork, laboratory and field testing, monitoring and reporting. He is responsible for writing and delivery of in-house technical training, and for technical aspects of work carried out throughout the division, including technical report writing. He is also the Technical Manager of the specialist in situ testing department, carrying out pressuremeter and cone penetration testing. He is a member of the AGS Data Management Working Group.

Presentation Title: Planning a Ground Investigation



10:45 - 11:15 Tom Phillips - Director, RPA Safety Services

Tom is a Chartered Safety Practitioner and has been since 2007. Tom has worked within the geotechnical and geoenvironmental industry since 2009 and as lead consultant for RPA Safety Services, provides specialist industry support and guidance to around 20 contractors and consultants within the industry. In his capacity as a trainer, Tom delivers industry recognised training courses for operatives, supervisors and engineers and provides a nationally recognised underground services safety course widely used within the industry and many tier one civil engineering contractors.

Presentation Title: Designing out risk



11:15 - 11:45 Hugh Mallett - Technical Director, Buro Happold

Hugh is a Chartered Geologist and registered Specialist in Land Condition (SiLC) with a wide variety of professional experience gained over 35 years. He leads a multi-disciplinary team involved in the project management, investigation and assessment of contaminated sites (both land and groundwater) prior to acquisition, reclamation or redevelopment.

Presentation Title: Essentials of a good desk study

11:45 - 12:00 Q&A and Discussion

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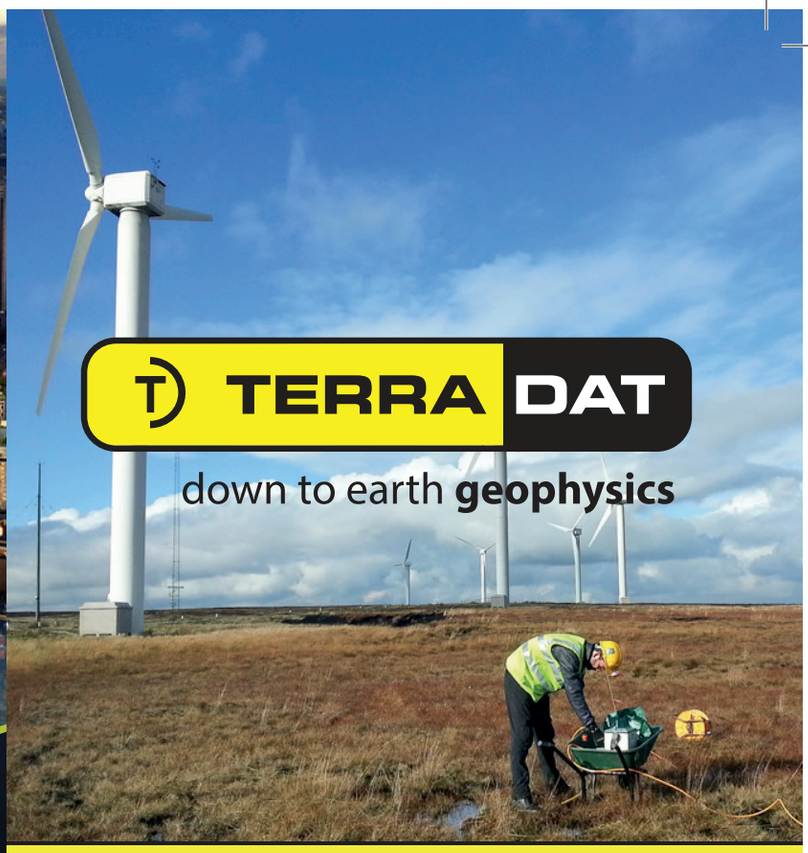
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13:30 – 15:15 Session 2



13:30 - 14:00 Dr Simon Hughes - Principal Geologist, TerraDat

Simon studied a BSc (Hons) in Geology at Southampton University, worked for Amoco UK Ltd. and then went on to do a PhD in Volcanology at Cardiff University. He moved to North America and did a Post-doc. at the Institute of Geophysics, National University of Mexico (UNAM) and worked at the State University of New York (SUNY) Buffalo. In 2005, Simon decided it was time to get a "proper" job, and so he moved back to the UK and became the Operations Manager of TerraDat, where he has been ever since. Simon is the Secretary of the Near Surface Geophysics Group and sits on the Ground Forum.

Presentation Title: Geophysical techniques - Part 1 surface geophysics



14:00 - 14:30 James Whitford - Managing Director, European Geophysical Services

James is Managing Director of European Geophysical Services after joining the geophysics specialists in 1996, 18 months after it was formed. James began as a geophysical logging engineer, having previously work on various surface geophysical projects. James is an expert in downhole geophysics specialising in data acquisition and interpretation.

Presentation Title: Non-intrusive techniques – Part 2, downhole & cross hole



14:30 - 15:00 Mark Hudson - Managing Director, Geoterra

Mark Hudson is the founding director of Geoterra. He was a former Managing Director of SLS Coastway Surveys, based in the UK and Director of Coastway Surveys, based in Ireland. He is a Chartered Land, Mining & Minerals Surveyor and Geospatial Engineer with the Royal Institute of Chartered Surveyors with over three decades of experience in the geospatial engineering industry.

Presentation Title: Geophysical techniques – Part 3, cavity and confined space surveys

15:00 - 15:15 Q&A and Discussion

AECOM

EARLY CAREER GEOPRACTITIONERS CONFERENCE

Conference Programme — Thursday 8th July 2022

10:15 - 12:30 Session 1



10:15 - 10:45 Liz Withington - Principal Engineering Geologist, CC Ground Investigations

An Engineering Geologist with over 30 years' experience in the Site Investigation industry. Liz's career started in the brownfield redevelopment of the West Midlands and she has worked as a Main Contractor, Local Authority Officer, Consultant and Ground Investigation Contractor throughout the UK. She is passionate about mentoring the next generation of geologists to develop careers in the Ground Investigation industry. Liz is currently the Secretary of the Western Regional Group of the Geological Society, is a past Chair of the Midlands Geotechnical Society and is a member of the Safety Working Group of the AGS.

Presentation Title: Introduction & Developing the Ground Model



10:45 - 11:15 Eric Downey - Associate Director, Structural Soils

Eric draws on over 30 years' experience in the ground investigation industry starting his career at Sellafield where he worked on the Nirex project drilling 3,000m boreholes, he then spent a further 8 years working for Soil Mechanics (Socotec) and Thyssen (Quantum Geotechnical). He then spend ten years working for an Environmental and Geotechnical consultancy called Mouchel Parkman (now merged with WSP) then moved back into contracting in 2010 and currently an Associate Director at Structural Soils responsible for their business development.

Presentation Title: Choosing the right tool

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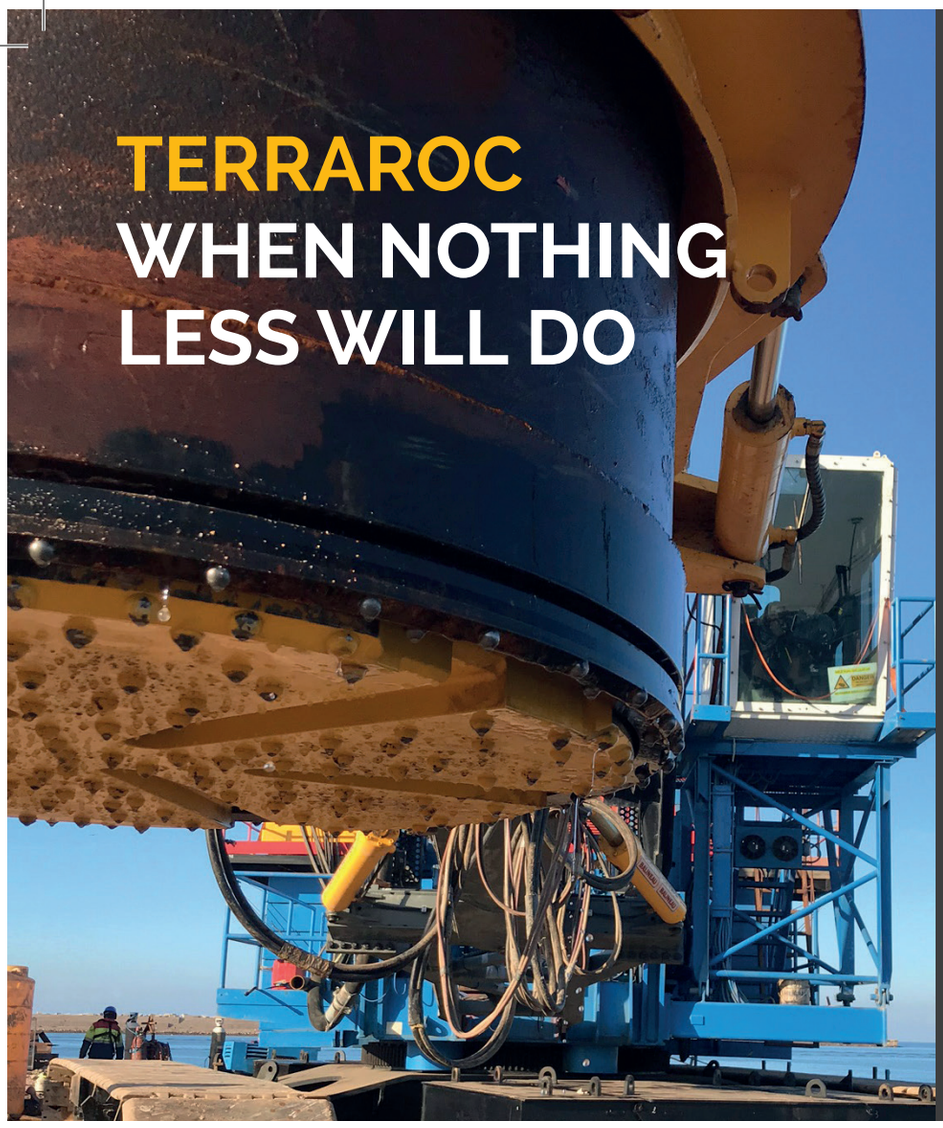
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11:15 - 11:45 Equipe Group in collaboration with AECOM and Geotechnical Engineering.
The Equipe Group, AECOM and Geotechnical Engineering have developed a series of training videos specifically aimed at supervisors on ground investigation projects. The lack of competence in this area has benn highlighted on a number of projects and through industry audits and this training goes some way to improving knowledge for supervisors within the industry.
Presentation Title: Safe Site Setups



11:45 - 12:15 Darren Ward - Managing Director, In Situ Site Investigations
Darren Ward, Managing Director of In Situ Site Investigation, has over 20 years' experience in the geotechnical industry. After graduating from Imperial College, Darren jumped straight into the in situ testing world where he spent 7 years working on all aspects of Cone Penetration Testing (CPTs). In 2008, Darren set up In Situ Site Investigation which has grown steadily based on a strong client focus. Part of Darren's interest is the development of CPTs where he has worked with many universities and co-authored over 20 technical papers. The company has now expanded into many different areas of in situ testing such as operating a full suite of pressuremeters, environmental, marine and rail both UK based and internationally.
Presentation Title: Getting the most out of your boreholes - In situ testing

12:15 - 12:30 Q&A and Discussion

13:30 - 14:45 Session 2



13:30 - 14:00 Geraint Williams - Associate, ALS

Geraint has worked for consultants, site investigation and remediation contractors. He has over 22 years' of experience in the assessment of sites in the UK as well as working in Iraq, Afghanistan, Nigeria and Cote d'Ivoire on behalf of the United Nations Environment Programme. Geraint is currently ALS's Technical Lead. He previously served on the Executive Committee of the Society of Brownfield Risk Assessment (SoBRA) and currently participates in specialist groups including SoBRA's vapour intrusion subgroup. Geraint also serves on EH/4, British Standards Technical Committee on Soil Quality, the Association of Geotechnical & Geoenvironmental Specialists (AGS) contaminated land and laboratories working groups. He is ALS's representative on the Environment Agency's specialist Per- and Polyfluoroalkyl substances (PFAS) analytical working group.

Presentation Title: Good practice in environmental sampling



14:00 - 14:30 Daniele Fornelli - Associate Technical Director, Geotechnical Observations

Chartered Civil Engineer, with more than 10 years working experience in I&M. Involved, as contractor and consultant, in a number of complex schemes both in the UK and overseas, including: tunnelling in urban areas, ground treatments, deep excavations and large scale trials. As a Geotechnical engineer, Daniele's passion for analytical and numerical modelling has been complemented by his deep interest for I&M, allowing him to keep a scientific and data-driven approach to complex data interpretation and back-analysis problems. He is currently an Associate Technical Director for Geotechnical Observations Ltd, responsible for the technical aspects (including data validation, analysis and interpretation) of a number of monitoring schemes across the UK.

Presentation Title: Risks without instrumentation and monitoring

14:30 - 14:45 Q&A and Discussion



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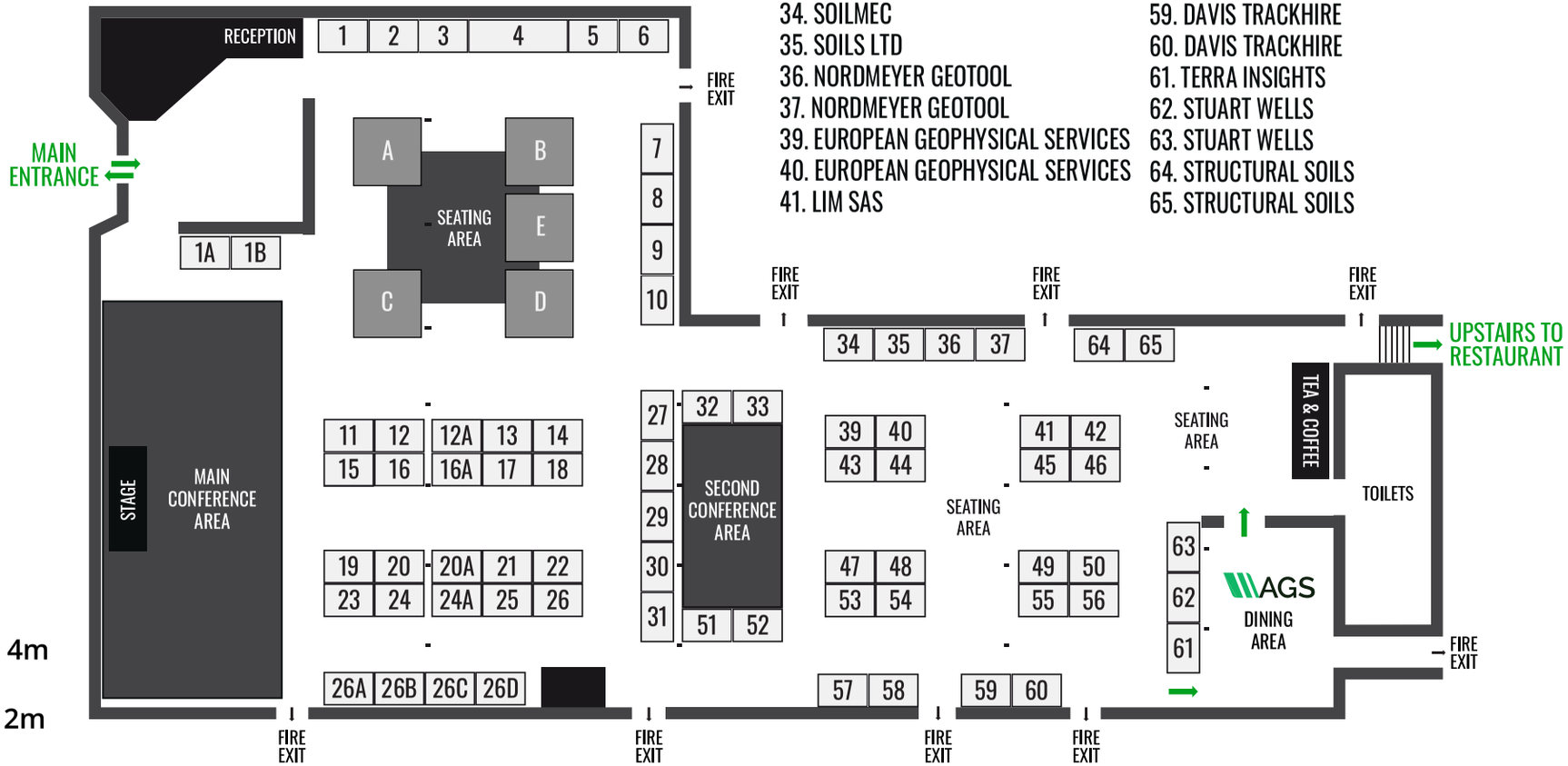
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26. EOD CONTRACTS
26A. MGS
26B. MGS
26C. MGS
26D. MGS
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28. BAM RITCHIES
29. SOILCLOUD
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65. STRUCTURAL SOILS



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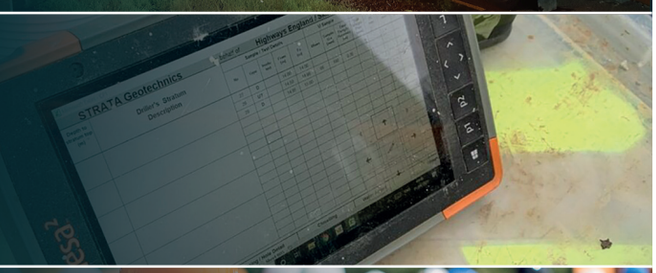
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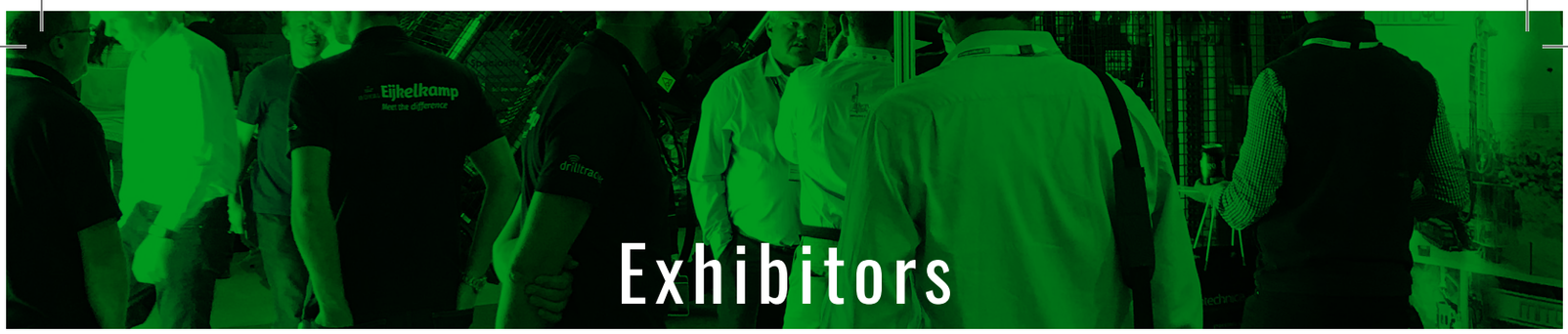
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We are members of the British Drilling Association (BDA) and the Association of Geotechnical Specialists (AGS), with all drillers trained to NVQ Level 2 in land drilling.





Exhibitors

Stand	Company	Description
A	national highways	National Highways is the government-owned organisation charged with operating, maintaining and improving England's motorways and major A roads. It operates information services through the provision of on-road signage and its Traffic England website, provides traffic officers, to deal with incidents on its network, and manages the delivery of improvement schemes to the network.
B	NetworkRail	Network Rail owns, operates and develops Britain's railway infrastructure. They are responsible for managing the infrastructure slopes that enable 20,000 miles of track to connect communities across the country. Their teams of specialist geotechnical engineers use examination data and monitoring results to determine the appropriate intervention at the right time.
C	STRATA GEOTECHNICS	For over 20 years Strata Geotechnics (formerly VE Geotechnical Services) has provided high quality Ground Investigation and Pile Testing services throughout the UK. Focusing on the production of quality data, Strata maintain an enviable track record of being at the forefront of technology and innovation which includes the development of bespoke drilling rigs, digital data, sonic drilling technology and automated static load testing.
D	casagrande uk	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.
E	AECOM	AECOM is the world's trusted infrastructure consulting firm — planners, designers, engineers, program and construction managers driven by a common purpose to deliver a better world. On projects spanning cities, transportation, buildings, water, new energy and the environment, their clients trust them to solve their most complex challenges. Through their Think and Act Globally strategy they are focused on extending their industry-leading, global expertise to each of their projects around the world, transforming the way they deliver work through technology and digital platforms, and enhancing their position as a leading Environment, Social & Governance (ESG) company. Their UK&I based teams provide a comprehensive range of services in ground engineering, remediation, geophysics, ground investigation and environmental contracting solutions, on key projects including Lower Thames Crossing, Net Zero Teesside, Hinkley Point C nuclear new build, Northumberland Train line re-development, and on major international projects such as NEOM in Saudi Arabia.
1A	ambisense environmental analytics	Ambisense combines IoT sensors and smart software for a data-driven approach to risk management. Their solutions use environmental and engineering intelligence to de-risk, drive down costs and reduce the carbon footprint on infrastructure projects. They go far beyond simply managing and presenting data. Combining contextual and site-generated data including water quality, geotechnical, dust, air quality, odour, and gas on their smart platform Ambilytics, they deliver intelligence and deep insight into geo-environmental behaviour.
1B	Landmark 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.
1 & 2	DYWIDAG	DYWIDAG - providing leading geotechnical engineering solutions including products, technical advice, testing, surveying, and monitoring. Infrastructure construction and management is achieved using full lifetime designs and materials with up to 120 design life. Applications such as Soil Nailing, Micro-piling and Ground Anchoring appear in many sectors including deep basements, cofferdams, bridge abutments, slope stabilisation and heritage structures, quarries, Rail, Highways, Coastal protection, Rivers & Canals. DYWIDAG core values are to provide, SAFER, STRONGER & SMARTER solutions for Infrastructure. The DYWIDAG comprehensive approach provides technical advice based on the requirements of the whole solution not just the individual components. By providing a specialist elemental technical service, DYWIDAG solutions provide value engineered proposals, technical certainty, safe solutions, and long-term asset management. DYWIDAG is a global organisation with the ability to draw on experience from around the world. They also understand the sensitivities and differing demands of local markets, the environment and sustainability.
3	IN SITU SITE INVESTIGATION	In Situ Site Investigation is 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.
4	Rockbit uk Ltd Drilling Rigs & Equipment	Rockbit UK ltd. is a major international manufacturer and supplier of Drilling Rigs, Drilling Bits and associated Drilling Equipment. Based on Tyneside in the United Kingdom with offices in Amman, Jordan, the company has 35 years experience of manufacture, contracting, service and supply within the Drilling and Mining industries. Rockbit UK provides a drilling consultancy service to its customers and prides itself on the reliability and quality of its products and service.

Stand	Company	Description
5 & 6	TerraRoc	TerraRoc is the market leader in geotechnical drilling consumables and they operate globally from Europe to South-Central-North America to Asia. With three manufacturing facilities in Finland (Tampere), Scotland (Grangemouth) and the United States (Roanoke, Virginia), in addition to a supply chain that spans the globe, they're able to minimize their clients' downtime and react promptly to their needs around the world. From specializing in casing advancement systems, down-the-hole hammers and core drilling, TerraRoc's strong R&D, thorough planning and exacting quality control enable them to deliver a full range of drilling tools and consumables. Their products and services are customized for each specific client's needs and with some of the industry's most robust R&D talent, TerraRoc is always on the lookout for new customer challenges.
7 & 8	ROBERTSON GEO Unlocking Your Geodata	For over 40 years Robertson Geo has pioneered the development of wireline logging instrumentation technologies and techniques. The comprehensive range of geophysical logging solutions and software is developed and built at its North Wales manufacturing and calibration centre. On-site test facilities include a 100m test borehole, calibration blocks, ovens and autoclaves, used for testing complete probe assemblies, providing a full suite of traceable calibration and quality assurance data. Experienced field engineers are available to conduct borehole logging services in any location worldwide. Equipment can be purchased or rented, offering a range of flexible options for calibrated wireline logging data of proven quality and reliability.
9 & 10	SOIL ENGINEERING	Soil Engineering is one of the UK's leading geotechnical contractors with a proven capability in all elements of ground investigation and stabilisation. Soil Engineering are a long established leader in the UK Geotechnical Sector, delivering both Ground Investigation and Drill and Grout services from three bases across the country. They are capable of undertaking a wide range of investigative and remediation techniques.
11 & 15	GenAir	GenAir - Specialists in Compressed Air Hire - A refreshing alternative in the supply of compressed air rental and mobile accessories. With a management team boasting over 140 years' experience in the industry, supported with one of the largest hire fleets of compressed air systems, desiccant dryers and ancillary equipment in Europe. For even the most urgent of requirements their rapid response and customer service is the best in the business. With both industrial and oil free formats, GenAir compressors are offered to include TIER 5 LEZ COMPLIANT and ZERO EMMISSIONS ELECTRIC DRIVE to provide the most efficient solutions.
12	Leca	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.
12A	Cambridge insitu	Established in 1972, Cambridge Insitu are innovators in the use of Pressuremeters. Their high-resolution instruments are employed measuring insitu-stiffness and strength of soils and rocks, optimising design. They work internationally to bring their expertise to projects, adding value with their world leading experience and research. Their trained and experienced engineers visit sites with all the equipment required to undertake high quality pressuremeter testing. They commonly work on land, dynamically positioned drill ships, jack up barges and platforms, on projects all over the world.
13, 14, 17 & 18	EQUIPE GROUP	Incorporating Equipe Training and Equipe Geosolutions, the Equipe Group are the hosts of Geotechnica 2022. They help Geotechnical and Land Drilling companies raise standards, grow and prosper. Offering a vast array of services, their expertise ranges from specialist geotechnical health and safety training for on-site staff, to developing innovations to make life on site easier and your workflow smoother. Some of Equipe's services and products include Soil and Rock Description Workshops, on-site data collection tool KeyLogbook, RhinoCorebox, On-Site Photoboards and 2018's GE Technical Innovation Award winning rig guarding system - SAFER G.
16	RPA SAFETY SERVICES Ltd	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 and Avoiding Danger from Underground Services which are run in partnership with Equipe Training.
16A	SKELAIR GROUND ENGINEERING & ROCK DRILLING SOLUTIONS	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. They are official distributors for Klemm Bohrtechnik, TEI Rock Drills, EMCI drilling rigs, and Marini Quarries Group.
19 & 20	geotechnical	Established in 1961, Geotechnical Engineering are the UK's largest, privately owned, independent, ground investigation contractor, providing quality geotechnical and geoenvironmental data throughout the UK. They deliver an extensive range of ground investigation services for the purpose of informing on the physical and engineering properties of the ground (soil & rock), and any potential contamination issues.
20A	MacGeo Geotechnical & Environmental	MacGeo is a specialist geotechnical drilling subcontractor working onshore, nearshore and offshore, in the UK and overseas. A UK-based independent provider offering the full range of specialist geotechnical and geo-environmental drilling services, including the most advanced and industry leading 150Hz Sonic drilling techniques. They work on behalf of main contractors and consultancies within the ground investigation, oil and gas, mining and civil engineering industries. MacGeo is completely unique in how they are set up, as they are a drilling subcontractor owned and managed by a team of geotechnical engineers, therefore their focus is always on delivering to the end client. They are one of only a few UK drilling subcontractors that has the ability 'in-house' to deliver a full-scale ground investigation of considerable size on behalf of their clients, both on land and overwater.

Stand	Company	Description
21 & 22	Eijkelkamp Fraste UK	Eijkelkamp Fraste UK – Bringing the best of both companies to the UK. Eijkelkamp Fraste UK was established in 2019 and is co-owned by Royal Eijkelkamp & Fraste. Based in The Netherlands, Royal Eijkelkamp produce & supply products & services, offering a one-stop solution for Soil & Water Research. Royal Eijkelkamp are also the worldwide producer & supplier of Sonic Drilling Rigs, Sonic tooling & Sampling solutions. Fraste, based in Italy, have over 50 years of design and construction experience. This gives Fraste a strong & stable position in the international drilling industry. Designing & manufacturing quality Drilling Rigs that last have secured growth and supply around the world. Bringing the best of both companies to the UK, Eijkelkamp Fraste UK was created. They are innovative, forward thinking and committed to offering a wealth of knowledge, unrivalled after sales service & support.
23	AGS	The Association of Geotechnical and Geoenvironmental Specialists (AGS) is a not for profit 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 ground investigation, geotechnics, geoenvironmental engineering, engineering geology, geochemistry, hydrogeology, and other related disciplines.
24	The OLLIE Foundation	The OLLIE Foundation is a suicide prevention charity, set up in 2016 by three parents who had each lost a son to suicide. They met in bereavement support and vowed to do all they could to stop another family going through the heartache they were experiencing. OLLIE provides wellbeing, prevention and intervention events, training, talks and panel events for professionals, parents and students. Our mission is to reduce the incidence of suicide, particularly amongst our young people.
24A	SEEQUENT	Seequent, a Bentley Systems company, offers a comprehensive portfolio of geotechnical data management and analysis solutions to open up collaboration across teams and disciplines. Seequent's PLAXIS and GeoStudio geotechnical analysis software help users solve common and complex geotechnical problems, with OpenGround providing a centralised, auditable environment to visualise, integrate, and manage geotechnical data. Improve communication, enhance decision making, and reduce risk across the project lifecycle by pairing with Seequent's ground engineering solutions for geology, geophysics, and model management, as well as Bentley's selection of infrastructure solutions.
25	safety solutions ltd	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.
26	EOD Contracts Ltd	Since 2002, EOD Contracts has been providing innovative, cost- effective explosive ordnance risk mitigation to the geotechnical and construction industries through onsite attendance and office-based reporting. Their engineers all hold NATO recognised qualifications, CSCS cards and are experienced in their various fields. More recently, they have diversified their operations into the utility clearance world and use fully-qualified 'Pro Qual level 3 Utility Mapping' surveyors during their PAS128 mapping and clearance works. Using leading edge cable locators and GPR technology, they aim to go above and beyond for their clients while logging all their work for inclusion in permits or for QAQC purposes. GPS marking-out and recording of positions form part of the clearance process and this data can be exported to their clients in various formats. They aim to supply a one-stop solution to your utility and EOD needs at sites across the UK.

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Stand	Company	Description
26A-D	MGS	MGS is a leading UK manufacturer and supplier of specialist quality products used by the drilling industry in ground investigation, water well and ground source heat applications. They stock an extensive range of products including PVC and PE wellscreen, plus accessories for borehole completion such as Bentonites and protective covers. MGS is the UK distributor for European rig manufacturers Pagani and Tecop and also stocks a wide range of dynamic and rotary rig tooling. Ground source heat products include geothermal loops in custom-made lengths, weights, tremie pipes, thermal grouts & sands. Most products are available for prompt despatch or collection from their Suffolk HQ or North East regional depot.
27 & 28	bam ritchies	BAM Ritchies is the leading edge provider of ground engineering services and is fully focused on supporting the UK's major infrastructure projects. Partnering with their customers at the earliest stage of the project life cycle, they use advanced techniques, equipment and digital technology to deliver optimum, best value solutions.
29	SoilCloud	SoilCloud is a web application allowing the digital transformation of geotechnical engineering. More than 1000 users already use the application around the world. Geotechnical engineering activities collect a lot of data. This data has a high value for the companies which own it but it is rarely used to it's full potential due to the lack of dedicated tools and software. SoilCloud is specifically designed for geotechnical engineering and allows users to manage, thanks to a user-friendly interface, the potential of all collected data. SoilCloud covers a large range of in-situ (SPT, CPT, Dynamic probe tests) and laboratory tests (classification, triaxial tests, consolidation tests). However, SoilCloud is not only a data viewer. Indeed, with the application you can access specific geotechnical tools such as a CPT analyzer or a 3D modeling tool. Soilcloud's ambition is to gather all the tools the geotechnical engineer required daily, all in the same place.
30	GEOTECH CIVIL ENGINEERING	GEOTECH SRL Romania provides services in the areas of structural design for various types of civil, industrial and agricultural constructions, and geotechnical engineering, which include field investigations, laboratory testing, geophysical surveys and geotechnical design. Their passion for structural and geotechnical engineering has led to the formation of a group of professional and dedicated people, with the common goal of achieving performance and quality at the highest level. The GEOTECH team is dedicated to each project, providing ongoing support throughout its development, and always trying to find new approaches and ways of optimizing processes, so that all your technical, economic and time requirements are met.
31	BRITISH DRILLING ASSOCIATION	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.



Geotechnical Engineering is the UK Leading independent provider of ground investigation services, with over 60 years' experience of geo information data capture.

Ground Investigation I Restricted Access I Laboratory Testing

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Stand	Company	Description
32 & 33	STRATUM DRILLING SOLUTIONS	Stratum Drilling Solutions Ltd offers a single source solution supplying industry leading products, service & support. They bring together all components of the drill string and offer a complete solution from the bottom of the hole right through to the rig itself. Each supplier has been chosen through their continued development of quality equipment, their focus on the customer and Stratum's own experience of working with their products. Large stocks located in the UK allow for a seamless supply no matter the application. With a wealth of knowledge on both the equipment and applications allow Stratum to work closely with the customer to find the perfect on site solution.
34	soilmec Drilling and Foundation Equipment	For 30 years Soilmec Ltd have supplied new Drilling Rigs and Accessories to the drilling and foundation industry in the U.K and Ireland. The Soilmec range of machinery covers the field of foundations for piles, diaphragm walls, cased secant piling, micro piles, soil consolidation, tunnels, geothermal and also site investigation.
35	40 Soils Limited 1983 - 2023	Celebrating their 40th anniversary this year, Soils Limited are a team of qualified geotechnical engineers, geologists, environmental scientists, and geochemists working across the south of England, with offices in Hampshire, Cornwall, Surrey and Somerset. They provide geotechnical and contaminated land consultancy, as well as in-house site investigation services, monitoring, and inspections. They also have their own team of surveyors that provide utility tracing, GPR and topographical surveys. They pride themselves on their people and their culture, leveraging a deep technical base to deliver value for clients and stakeholders alike. Despite the challenges of the last two years, they have recently completed their largest project to date and are posting strong growth across the board. They are always on the search for the brightest talent to join them and are actively hiring across all sectors.
36 & 37	Nordmeyer GEOTOOL	Nordmeyer GEOTOOL is a specialist supplier for high-quality soil investigation rigs and equipment. Rigs and tools for dynamic probing and window sampling operations as well as rotary and mud drilling units along with the relevant accessories are made in Germany for local and international markets. Nordmeyer GEOTOOL's wide product range puts everything into your hands to carry out soil investigation projects in a fast, comfortable and efficient way. Visit them outdoors on stand 12.
39 & 40	EUROPEAN GEOPHYSICAL SERVICES	European Geophysical Services provide geophysical logging, imaging and video surveying of boreholes, adits, shafts and wells for the water, mineral, environmental and civil engineering industries. Their expertise and experience ensure a high quality service resulting in them being the preferred contractor to several major utilities, government agencies and engineering companies.
41	LIM	Since 1985 LIM SAS has been recognized internationally as a specialist in instrumentation and measurement, whether during or after drilling (drilling instrumentation and borehole logging). LIM SAS offers a wide range of data loggers for drilling parameters, in-situ geotechnical tests (Pressuremeter, Penetration tests, Lugeon packer tests), and special foundation processes such as low-pressure grouting, jet grouting, or bored piles. LIM SAS recently completed its range of data loggers with equipment allowing borehole deviation measurement and high precision GPS navigation (RTK) for drilling rigs. With their GEO-LOG 4 cloud-based software, LIM offers a solution that automatically transfers and preprocesses the data recorded on site.
42	GEOSENSE	Geosense is one of the leading manufacturers of instruments for geotechnical and structural monitoring, specialising in vibrating wire and MEMS sensors and automated data acquisition systems. With a comprehensive in-house design and manufacturing capability, Geosense provides products not only to tight deadlines but also to suit custom-engineered solutions for specific project requirements. They take a consultative sales approach. Their engineers, specialists in geotechnical monitoring, utilise their experience in the lifetime function and performance of the monitoring systems they supply to help their clients make the right decisions. Their sensors have been installed across more than 75 countries in some of the world's largest and most prestigious projects.
43	geoterra	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.
44	TERRA DAT down to earth geophysics	TerraDat is a specialist and independant 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 approprate environments.
45	FIELDERS Professional Recruitment	Fielders have been providing the highest calibre Ground Engineering professionals for almost 30 years for both permanent and contract vacancies. Their service is your service - whether you are a potential employer looking for expert sourcing in this niche market, or a candidate seeking professional, confidential and proactive representation to further your career. Their super friendly team in London work day-in and day-out with Site Agents, Rig Supervisors, Logging specialists, GeoEnvironmental Engineers, Designers – the full range of Geotechnical and GeoEnvironmental experts. Their specialist offshore consultants focus on both Geotechnical and Geophysical Client Reps and well as Lab Techs and Geotechnical Logging support.
46	DWG INFRACO	DWG Infraco are a highly skilled specialist contractor in ground engineering. They provide services in the areas of ground stabilisation, slab lifting and levelling, grouting, waterproofing, void filling, and jointing. They also have a diamond drilling, coring and sawing division. DWG Infraco's areas of work includes airports, rail, ports, freight terminals, warehousing, and multimodal facilities. Their unique Geo Resins and Bacel® Hardfoam offer a non-intrusive system for many problems, and their non-expanding products offer an accurate and long-term solution. They use GPR radar to provide accurate details of hidden problems, and they also use GPR during their resin injection process to monitor flow and void fill. Some of their specialist projects have been on listed structures, water and MoD infrastructure.
47 & 48	1ST LINE DEFENCE	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.

Stand	Company	Description
49		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.
50		Lankelma are specialists in cone penetration testing (CPT), a fast, efficient and reliable method for soil profiling and deriving geotechnical properties, as well as offering a range of other specialist testing such as seismic, pressuremeter, MIP and magnetometer. Their experienced site teams travel nationwide and internationally to deliver professional, cost-effective site investigations for the production of a high-quality report with timely distribution. Lankelma strive to overcome site challenges with unique solutions and innovative technologies led by their highly qualified technical team and assisted by their ever-growing fleet of CPT rigs. Lankelma have first-class resources suitable for working on a variety of sites – greenfield, brownfield, rail environments, basements, flood/sea defenses and intertidal zones to name a few – making them a leading provider of insitu soil investigations.
51		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.
52		ZDS, headquartered in Padua, is specialized in the design and manufacture of 4" submersible pumps for water treatment and distribution; electric motors; electronic control systems and accessories. ZDS products are manufactured to ISO 9001 standards: to achieve the quality objectives, to be innovative and to meet customer requirements. From the very beginning, the company has been focused on the development of automatic and innovative complete solutions thanks to built in electronic protections that are ready to use, economical and easy to install. Innovative ideas have been supported by technical know-how and organizational skills gained from long-term experience which is rooted in the know-how of some historic manufacturers in the hydraulic field.
53		Rated 4.6 on Trustpilot, Chemtech Environmental is an environmental testing lab that is fast, accurate and reliable. Here are a few key points you need to know: Accredited (UKAS and MCERTS); Standard turnaround is 5-days; Offer a full 2-stage WAC on a 3-day turnaround; Free collection service – from site or office; Free sample containers; Proactive, personal and dedicated support squad; Competitive rates with volume discounts for large projects. With over 20 years' experience, they are a safe pair of hands. Plus their recent investment in more instruments, staff and improved quality assurance proceedures ensure that their level of service remains both outstanding and consistent. Chemtech Environmental is part of Cawood, the UK's largest independent provider of analytical laboratory testing services for the land-based industries.
54		SatSense makes high quality ground movement data accessible. SatSense takes readings from radar satellite and converts it to high resolution ground movement data (InSAR). This data is updated every 6 days and stored for online access by their clients and can be integrated directly into customers' own monitoring platforms and dashboards. Identify areas at higher risk of movement, monitor known movements, raise early warning alerts. Their technology was originally developed at the University of Leeds by internationally renowned academics, Professors Andy Hooper and Tim Wright. The team have a range of academic and commercial experience across geophysics, technology and engineering and are being supported by some important names in technology including Network Rail. They are based in Leeds, UK but have customers worldwide. Products include a data portal to allow customers to purchase and assess historic movements over areas of interest, automated monitoring of assets for movement, alerts / early warnings for movement, and regular reporting of observed movements.
55		The company Jean Lutz S.A. both manufactures and installs specialized measuring instrumentation, which is used in large foundation works such as dams, undergrounds, tunnels, motorways, etc. Extremely robust and reliable, the instrumentation is designed for work under harsh environmental conditions. The devices can be easily operated by the rig operators. Each foundation process has an associated software which analyses the measurement data and produces reports which summarize the work carry out. The instrumentation Jean Lutz S.A. consists of the measuring unit, sensors, emission modules on the internet and software.
56		ASTERRA is a world leader in S.A.R. (Synthetic Aperture Radar) satellite-based infrastructure intelligence. The company's patented algorithms for the detection of soil moisture types below ground bring to the market the only intelligence of this kind. By analyzing S.A.R. imagery, ASTERRA collects hard, actionable data, which it puts in the hands of ground crews, planners, and engineers. Since its inception, ASTERRA has expanded its product line from "Recover" for water leak detection to include "Masterplan" for long-term water infrastructure planning and "Earthworks" for ground engineering intelligence across multiple verticals. Since 2016, ASTERRA's Recover has saved more than 27 billion liters of potable water and 22,000 MWH of energy per year, supporting United Nations Sustainable Development Goals (S.D.G.). ASTERRA is headquartered in Israel with offices in the United States and the United Kingdom. Their innovative data solutions are used in multiple verticals around the globe.
57		Brimstone is the UK's fastest growing unexploded ordnance (UXO) risk mitigation company. Built upon the foundations of three core principles; integrity, professionalism, and knowledge, Brimstone supports the geological, environmental, construction, development, and defence sectors. With the capabilities to offer a full spectrum of UXO risk mitigation services, from initial desk top risk assessments to final explosive demolitions, Brimstone is the only UK Government assured contractor for conventional munitions disposal. Having cleared thousands of ground investigation positions since incorporation, their clients can be sure that all drilling and excavations are undertaken safely and free from the risk of UXO.



Stand	Company	Description
58	MARSHALL DRILLING	Marshall Drilling are an independently owned geotechnical and geo-environmental drill only subcontractor. Providing high quality ground investigations nationwide, to the UKs leading geotechnical consultancies and contractors, utilising their fleet of nine, modern low emission rotary rigs. Their specialist plant, including unique low ground pressure drilling rigs and support equipment, is in regular demand from the energy sector due to its ability to access the most remote of sites. Other specialist areas of business include accreditation for work on Network Rail and National Grid Infrastructure, pre boring for UXO risk mitigation, cathodic protection boreholes and borehole soakaways.
59 & 60	DAVIS trackhire	Davis Trackhire are the UK's Largest Independent Suppliers Of Aluminium Trackway, providing Temporary Access Roads, Site Compounds & Borehole Pads for SSSI sites in the Geotechnical and Site Investigation sector. They fully understand the importance of avoiding cross-contamination as well as the strict time restraints that are often in place in the GI industry. They have full wash facilities in all of their depots and can have 1 kilometre of clean Trackway installed and ready to use within just 24 hours of arrival on site, and removed just as quick - No need to for reinstatement and very little if any disturbance to the sub-soil.
61	TERRA INSIGHTS	Powered by the trusted and experienced brands RST Instruments, Measurand, 3vGeomatics, and Syscom Instruments, Terra Insights is a comprehensive platform of geotechnical, structural, and geospatial monitoring technology, along with purpose-built data delivery solutions. Terra Insights' monitoring technology can measure areas of interest at scale, from high-production mine sites to entire networks, such as railways, highways, and pipelines with a combination of geospatial, ground-based, and structural-based instrumentation. Their platform is also used to measure movement in airports, bridges, water dams, tailings dams, mines, and tunnels.
62 & 63	Stuart Wells Limited	Stuart Wells 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.
64 & 65	STRUCTURAL SOILS LTD	Established in 1964, Structural Soils Ltd has evolved into an award winning national, multidisciplinary, integrated geotechnical and geoenvironmental site-investigation company with the proven capability, capacity and confidence to undertake contracts of any size, in any location and virtually any scope. The company undertakes contracts across the UK through its offices in Bristol, Castleford, Coventry, Glasgow, Hemel Hempstead, Wigan, Plymouth, and Tonbridge. In 2020, they won 'The Big 3' GE Awards, Ground Investigation Specialist of the Year, Contractor of the Year, Ground Investigation Project of the Year.



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01926 425959

Where 2 Travel
8 High Street, Leamington Spa CV31 3AN
01926 313141

Victoria Cars
Unit 4 Althorpe Street, Leamington Spa, Warwickshire CV31 2AU
01926 881161

Local Taxis
5 Jack Cade Way, Leamington Spa, Warwickshire CV34 5QY
01926 888846

Arrow Taxis
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01926 888855

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01789 842424

Ettington Chase
Banbury Rd, Ettington, Stratford-upon-Avon CV37 7NZ
01789 740000

Angel Hotel
143 Regent Street, Leamington Spa CV32 4NZ
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01926 330214

Travelodge: The Regent Hotel
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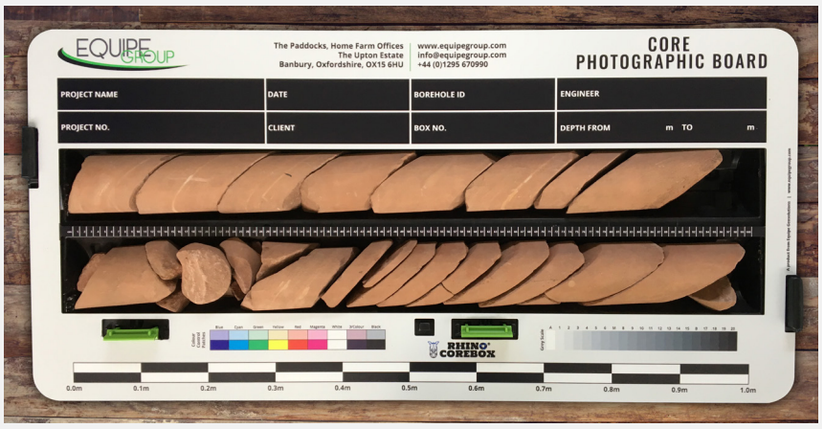
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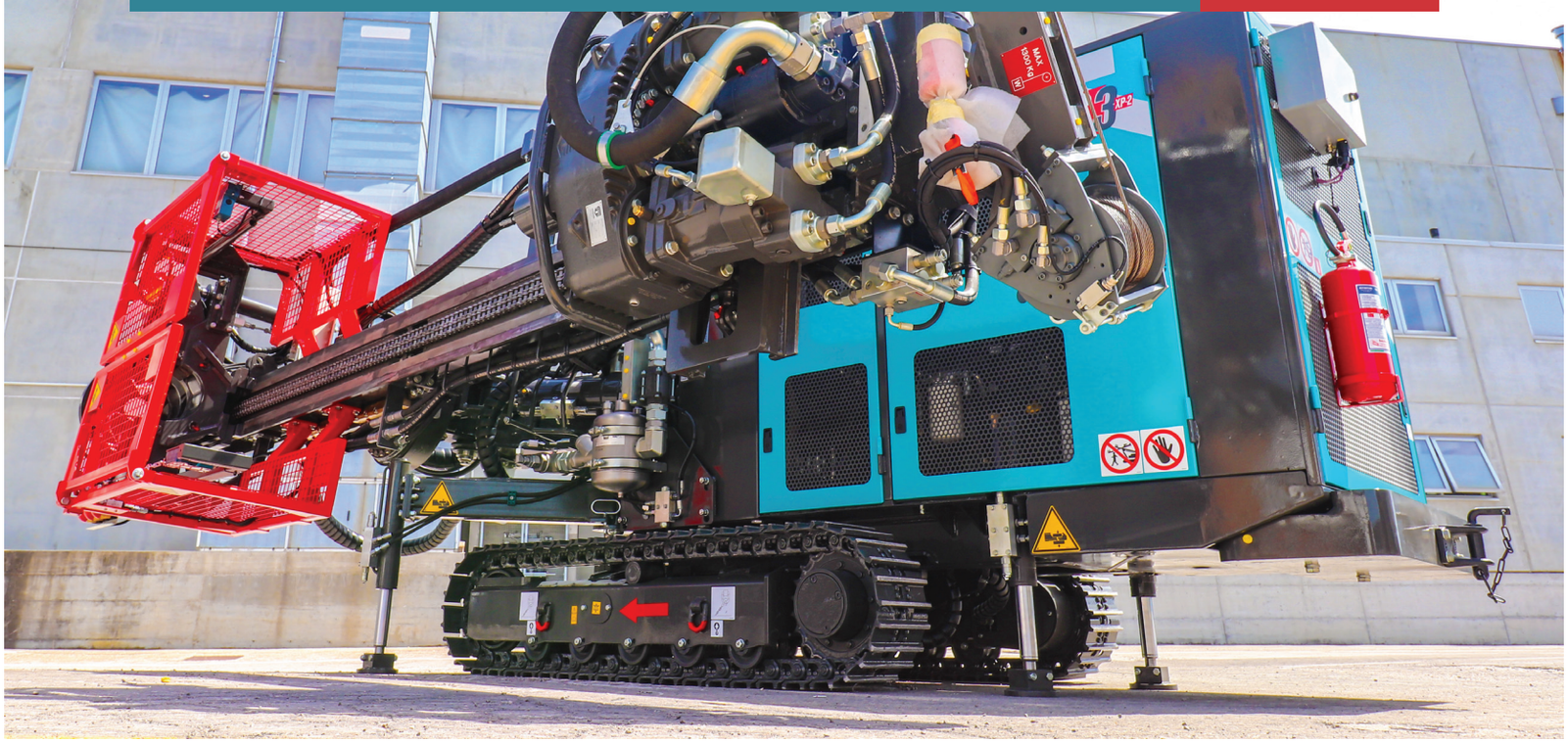
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