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SOIL ENGINEERING

With over 50 years of experience, Soil Engineering are one of the country's foremost Ground Investigation and Specialist Grouting Contractors. The comprehensive in-house geotechnical laboratory, continually updated plant fleet, and ongoing investment in training and staff development, allow Soil Engineering to provide a reliable and cost-effective solution for any geotechnical project, throughout the UK.
www.soil-engineering.co.uk

BACHY SOLETANCHE

Bachy Soletanche is one of the UK's leading geotechnical specialists with a reputation for quality and innovation within the field of foundation and underground engineering. Bachy Soletanche specialise in all aspects of modern geotechnics and foundation engineering, including Large Diameter Bored piling, Continuous Flight Auger piling, restricted access mini-piling, diaphragm walls, tunnelling, grouting and engineering to safeguard the environment.
www.bacsol.co.uk

BENTLEY

Bentley Systems is a global leader in providing engineers, architects, geospatial professionals, constructors, and owner-operators with comprehensive software solutions for advancing the design, construction, and operations of infrastructure. Bentley users leverage information mobility across disciplines and throughout the infrastructure lifecycle to deliver better-performing projects. Our solutions encompass MicroStation applications for information modeling, ProjectWise services to deliver integrated projects, and AssetWise services to achieve intelligent infrastructure.
www.bentley.com

ESG

ESG, a SOCOTEC company, is the UK's leading provider of testing, inspection and compliance services, offering comprehensive solutions in Infrastructure, Built Environment and Energy & Waste. ESG has nationwide coverage, with a network of UKAS accredited laboratories, and continues to be a driver of innovation within the industry. By helping clients design solutions and remain compliant, ESG has become the leading partner in its chosen sectors for technical expertise and services.
www.esg.co.uk

GEOLABS

Geolabs Limited is one of the largest UKAS accredited independent geotechnical soils, rocks and materials testing laboratories in the United Kingdom with in-house facilities enabling performance to British and other National and International Standards. Our staff serve on numerous National and International Standards committees, working groups and technical panels, often in the capacity of Chairmen or Working Group Coordinators. They have also lectured and given technical papers throughout the world.
www.geolabs.co.uk

GEOTECHNICS

Geotechnics Limited was established in 1983 to provide the full spectrum of services covering the design, implementation, interpretation and evaluation of geotechnical and contaminated land site investigations. Our head office and laboratory are based in Coventry, with additional offices in Exeter, Chester and Yorkshire. We have considerable experience of working on varying scales of projects, and we are currently able to undertake individual site investigations ranging from £500 to in excess of £2.75 million.
www.geotechnics.co.uk

i2 ANALYTICAL

i2 Analytical is an leading independent testing and analytical laboratory, reporting our Geotechnical and GeoEnvironmental data in a range of formats including: EQuIS, AGS 3.1 and AGS 4. Our Geotechnical laboratory supports a range of sectors including Civil Engineering and GeoEnvironmental contractors/consultants. We also have expertise in asbestos testing and perform a range of chemical analyses using state of the art techniques on waters, soils and associated materials.
www.i2analytical.com

KEYNETIX

Keynetix are experts in Geotechnical and Geoenvironmental Data Management. Our solutions cover every stage of the Geotechnical data journey from planning, through site work and reporting to 3D Modelling, BIM and National Archives. Being experts at every stage of your site investigation process enables Keynetix to advise you on the best solution to meet all your needs and gives you a single supplier to ensure that all your systems work together smoothly.
www.keynetix.com

ARUP

As an acknowledged leader in geotechnics, Arup is often asked to push the essential skill and science of designing and building structures in the ground. Wherever difficult ground conditions, sensitive environments or ambitious projects present geotechnical challenges, Arup provides robust and advanced solutions. Arup are experienced consumers of digital geotechnical data undertaking detailed analysis and interpretations to add value to our clients' projects. AGS data transfer is at the heart of this.
www.arup.com

STRUCTURAL SOILS

Structural Soils is one of the country's leading and award-winning ground investigation contractors. It is a national company with offices in Bristol, Castleford (near Leeds), Coventry, Hemel Hempstead, Glasgow and Tonbridge. For over 50 years, we have provided comprehensive site investigation and ground investigation services in the UK, across Europe and, more recently, further afield. Soil Samples are tested in the well-equipped UKAS-accredited laboratories in Bristol, Castleford, Hemel Hempstead and Tonbridge.
www.soils.co.uk



Association of Geotechnical & Geoenvironmental Specialists



AGS GEOTECHNICAL DATA CONFERENCE PROGRAMME Best Practice, Challenges and Future Opportunities



WEDNESDAY 20th SEPTEMBER 2017
NATIONAL MOTORCYCLE MUSEUM, COVENTRY RD,
BICKENHILL, SOLIHULL, B92 0EJ

For over 25 years, AGS Data Transfer Format has allowed for the seamless sharing of data between different software within the geotechnical and geoenvironmental industry. It has become the industry standard and today is used worldwide.

This conference will examine the growing role of data management within digital engineering and Building Information Modelling, whilst looking at examples of best practice from ground investigation specialists, designers and constructors.

Divided into four chaired sessions, the conference will also focus on recent technological advances, collaborative working practices, trends and potentially disruptive

changes, helping to paint a picture of what the industry's future may look like.

Established in 1988, the Association of Geotechnical and Geoenvironmental Specialists represents over 130 leading companies specialising in site investigation, geotechnics, geoenvironmental engineering, engineering geology, geochemistry, hydrogeology, and other related disciplines.

Working to improve the profile and quality of geotechnical and geoenvironmental engineering, the AGS works closely with its members to establish standards and provide guidance and publications to improve safety, promote quality professional practice and encourage quality management systems across the industry.



PROGRAMME

8:45 REGISTRATION

9:30 INTRODUCTION

Jackie Bland, AGS Data Management Leader and IT Manager at Geotechnics and Roger Chandler, Managing Director at Keynetix

10:00 CLIENT VIEW

Chaired by Christopher Power, Principal Engineering Geologist at Mott MacDonald

10:55 REFRESHMENT BREAK

11:25 INTERNATIONAL

Chaired by David Entwisle, Senior Geologist at British Geological Survey

12:20 LUNCH

13:20 CASE STUDIES

Chaired by David Farmer, Geotechnical Engineer at Arup

15:00 REFRESHMENT BREAK

15:30 DIGITAL ENGINEERING AND BUILDING INFORMATION MODELLING

Chaired by Simon Miles, Principal Geotechnical Engineer at Atkins

16:25 CLOSING SUMMARY

Neil Chadwick, Associate, Geotechnics at Arup

17:00 ENDS



CLIENT VIEW

Christopher Power, Mott MacDonald

Chris Power is a Principal Engineering Geologist, with a PhD in rock mechanics and nearly 20 years of experience working for Mott MacDonald. Chris has been a member of the AGS Data Management working group for over a decade and was involved in the development of AGS version 4. Chris now specialises in Geotechnical Asset Management. This session presents a client view on the management and use of data.

Papers covered in this session will include:

!!! **Improving Geotechnical Information – Results from an HE Study**

Tony Daley (Amageo)

!!! **Experiences in adopting AGS and Future Requirements**

Roselyn Carroll (NGI)

!!! **Geotechnical Data Management for Thames Tideway**

Shawn Sismondi (Ferrovia Agroman Laing O'Rourke JV)



INTERNATIONAL

David Entwisle, British Geological Survey

David Entwisle (CGeol, FGS) is a senior engineering geologist working at the British Geological Survey. Having worked for BGS for over 34 years, David has a wide range of experience from laboratory soil and rock mechanics, the effects of mineralogy and structure on the behaviour of clays and mudstones to more general engineering geology. This includes the BGS Engineering Geology report series, national engineering

characteristics information sets, natural geological hazards, methods of presenting geotechnical data and engineering geological information and 3D geological modelling including Crossrail Farringdon Station. He is the consultant on the BGS National Geotechnical Properties Database and is on a number of national committees.

This session demonstrates the adoption and use of AGS digital data transfer format overseas.

Papers covered in this session will include:

!!! **Out of Adversity Can Come Good Things or A Tale of Two Corollaries**

Rodney Hutchison (KGA)

!!! **Very Large Data Sets – Challenges, Insights and Opportunities**

Rory McCully (Arup)



CASE STUDIES

David Farmer, Arup

David Farmer is an engineer working in the Arup ground engineering team based in the midlands campus office. He started at Arup as a technical apprentice studying on a part-time basis, achieving MEng in Civil Engineering. David is experienced in producing 3D ground models through the use of CAD, GIS and geotechnical database software, and is currently developing his geotechnical design experience. The AGS data transfer format is something that has always been available in his workflows, and as a newcomer to the data format committee he's keen to keep the format maintained and looks forward to future developments.

This session showcases examples of best practice within the industry.

Papers covered in this session will include:

!!! **Consultancy Led Ground Investigation Contracting on Large Infrastructure Projects**

Russell Jordan (RPS)

!!! **Transpennine Route Upgrade – Value Engineering through Geotechnical Data Management**

Callum Irving and Paul Chaplin (TSP and Central Alliance)

!!! **Moorside Site**

Characterisation Project

Matt Waddicor (NuGen)

!!! **Reducing the Amount of Non-Digital Data Recording/Collection/Scheduling**

Craig Perry (Atkins)

!!! **Information Modelling Workflows for Using Geotechnical Data in Civil Engineering**

Ian Joyce (Bentley)

!!! **Digital Data Journey Refinement**

Rae Watney (WSP)



DIGITAL ENGINEERING AND BUILDING INFORMATION MODELLING

Simon Miles, Atkins

Simon is a Chartered Civil Engineer and a member of the AGS Working Group on the Electronic Transfer of Data, and a member of BSI Committee B/526/03/03 Management of Geotechnical Data. He is also a UK Registered Ground Engineering Adviser. Simon has been championing the use of geotechnical digital data since he graduated and is now a recognised authority on the subject. He has led the adoption of



a standard suite of geotechnical data management software throughout Atkins, which greatly smoothed the integration of geotechnics into the wider world of BIM. He has latterly been involved with the recently completed BIM for the Subsurface research project for Innovate UK.

This session highlights future needs and trends within the industry with an emphasis on data management.

Papers covered in this session will include:

!!! **BuildingSMART and the Future Role of Geotechnical Data in the BIM process**

Nicholas Nisbet (AEC3)

!!! **Outcomes from the BIM for the Subsurface**

Gary Morin (Keynetix)

!!! **National Geoscience Data Centre: Building an Open National AGS Data Store**

Garry Baker (BGS)

Abstracts for the papers are available for view on www.ags.org.uk

With special thanks to Jackie Bland, Roger Chandler and Neil Chadwick

