

'Advances in Geological/Geotechnical Data Handling and Modelling'

One day Seminar at the Geological Society, Burlington House – 2nd October 2014

Registration with tea and coffee from 8.45am for prompt 9.05am start

Morning Sessions

Opening Address

Tony Wilcock, Professional Head (Earthworks), Network Rail

	<u>Theme One – Data Gathering in the field</u>
9.30 – 9.50	From Borehole to BIM – Ground Investigation Data Collection at Source; Digby Harman , Innovations Manager, Soil Engineering
9.50 – 10.10	Advances in near-earth remote sensing; Peter Hobbs , Engineering Geology Group, BGS
10.10 – 10.30	Remote monitoring in the rail sector; Mike Brown , Senior Engineer, Network Rail
	Questions / Discussion
10.40 – 11.00	Break
	<u>Theme two – Data transfer, storage and collaborative sharing</u>
11.00 to 11.20	Data transfer technology; Dr Andrew Ridley , Managing Director Geotechnical Observations Ltd
11.20 – 11.40	AGS digital data transfer format: past, present and future; Jackie Bland , Geotechnics Ltd and Member of the AGS Data Management Committee
11.40 – 12.00	Collaborative tools; Roger Chandler , Keynetix Ltd
12.00 – 12.20	The Clyde project, and development of the GSPEC data transfer protocol; Hugh Barron Responsive Surveys Scotland Manager, British Geological Survey
	Questions / Discussion
12.30 to 13.15	Lunch

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Afternoon Sessions

13.15 – 13.30 Engineering Group AGM

Ian Duncan, Chair, Engineering Group

	<u>Theme three – Turning data into information – geological modelling</u>
13.30 – 13.50	Fundamentals of implicit geological modelling: applications for the mineral exploration and mining industry; Oliver Jones , Consultant (Resource Geology) - SRK Consulting
13.50 – 14.10	Integrated 3D ground models for cost-effective foundation design, construction and risk reduction of offshore wind farms; Sean Pearce , Engineering Geologist, Atkins
14.10 – 14.30	Big data techniques for reducing risk and cost in Geotechnics; Michael Devriendt , Associate, Arup
14.30 – 14.50	The use of regional data to improve site specific models; Dr Richard Ghail , Lecturer in Engineering Geology, Imperial College London
14.50 – 15.10	How to avoid making your Ground Model a Ground Muddle; Professor John M. Reynolds , Managing Director, Reynolds International Ltd
	Questions / Discussion
15.20 - 15.40	Break
	<u>Theme four – Industry benefits and future work</u>
15.40 – 16.00	Geo-financial asset data modelling; Chris Power , Principal Engineering Geologist, Mott MacDonald
16.00 – 16.20	National Geotechnical Database, Data and Industry: Making data flow to reduce risks ; David Entwistle , British Geological Survey
16.20 – 16.50	Geotechnical data management in 2034; Tim Spink , Technical Director, Mott MacDonald
	Questions / Discussion
17.00	Close