



The
Geological
Society

-serving science & profession

PROVISIONAL CONFERENCE PROGRAMME

Thursday 26 th October 2017	
09.00	Registration & tea, coffee
09.30	Welcome Address Simon Abbott, Network Rail
Session 1: Strategic Geotechnical Asset Management <i>Chair: Tom Berry, Arup</i>	
09.50	KEYNOTE – Strategic Geotechnical Asset Management Challenges Tim Spink, Mott MacDonald
10.30	Review of Geotechnical Asset Management Implementation for Highway Departments in the United States Mark Vessely, Shannon & Wilson
11.00	Tea & coffee break
11.30	The development of the Soil Embankment and Soil Cutting Hazard Indices for use on Network Rail earthwork assets Chris Power, Mott MacDonald
11.55	Multi-geohazard risk assessment and asset management along railway corridors Matt Lato, BGC Engineering
12.20	Managing Highways England's Geotechnical Risks – Special Geotechnical Measures Verity Smith, Atkins
12.40	Establishing and quantifying the casual linkage between drainage and earthworks performance for Highways England Matt Lane
13.00	Lunch
Session 2: Current and future infrastructure resilience and monitoring <i>Chair: tbc</i>	
14.05	KEYNOTE – The value of infrastructure sensing Kenichi Soga, University of California, Berkeley
14.45	Development of a Global Stability and Resilience Appraisal for Network Rail earthwork assets Richard Mellor, Mott MacDonald
15.15	Use of remote sensing for management of geotechnical assets on the strategic road network in England Áine Ní Bhreasail, Arup
15.35	Track Monitoring Data Systems for Evaluation of Earthworks Instability Ian Payne, Network Rail
15.55	Tea & coffee break
16.20	Landslide hazards, strategic risk management and operational responses in the Caribbean. A case study of Hurricane Tomas in St Lucia Chris Arnold, Mott MacDonald
16.40	The iSMART Project Stephanie Glendinning, Newcastle University
16.55	Monitoring of rainfall-induced slope failures in Glen Ogle, Scotland Charlie Gilles, University of Glasgow

17.10	Drinks reception + posters & hazard product demos
	The production of ground related hazard maps to aid risk management of Highways England Strategic Road Network Jonny Neville, Mott MacDonald
	Satellite InSAR applied to mining related risk assessment – a case history from Manchester, UK Keith Nicholls, Network Rail & Adam Thomas, CGG NPA Satellite Mapping
	LiveLand : An integrated approach to predicting, monitoring and lerting landslides and ground deformation affecting transport infrastructure Claire Roberts, CGG
Friday 27th October 2017	
08.00	Networking breakfast
09.00	Re-cap of Day 1 and intro to Day 2 Chris Power, Mott MacDonald
Session 3: Ground related hazards <i>Chair: Verity Smith, Atkins</i>	
09.20	KEYNOTE – Hazards posed to Canadian railways Jean Hutchinson, Queen's University, Canada
10.00	Smart Geotechnical Asset Management for transport systems Paolo Mazzanti, University of Rome
10.20	Sub-surface Risks for the Construction of HS2 in Mid-Cheshire Chris Eccles, TerraConsult
10.40	Identification, assessment and management of ground-related hazards to transportation infrastructure Robert Damhuis, South African National Road Agency
11.00	Tea & coffee break
11.30	Earthworks risk management of a highway in south east UK Alastair Mckenzie, AECOM
11.50	A high level assessment of landslide hazard from Outside Party Slopes to the Rail Network of Great Britain Katy Freeborough, British Geological Survey
12.10	Safely managing the nation's mining risk for the infrastructure sector Simon Leeming, The Coal Authority
12.30	Seismic Risk to Roads and Bridges in the Kyrgyz Republic, Central Asia Yannis Fourniadis, Arup
12.50	Lunch
Session 4: Operational response to hazards and events <i>Chair: Clare Brint, Network Rail</i>	
13.55	Developments and Future Challenges in Responding to Hazards and Events Richard Garland, BAM Ritchies
14.35	Western Route Earthwork Assets: Risks Posed to the Operational Railway Tim Laverye, Network Rail
14.55	The impact of earthquake and monsoon induced landslides on rural and remote transport infrastructure. A case study from Nepal Michael Whitworth, AECOM
15.15	Operational responses to geotechnical asset failures impacting on transportation infrastructure Fraser McMillan, Jacobs
15.35	Tea & coffee break

16.00	Improving the understanding of weather drivers of earthwork failures along Britain's rail network : a data driver approach Juliet Mian, Arup
16.20	M3 case study Steven Harris & Andrew Meloy, AECOM
16.40	Close of conference