



Hybrid Conference

20 – 21 November 2025

The Fookes Meeting for Engineering Geology
CONFERENCE PROGRAMME



The
Geological
Society

Sponsored by

Ebor


**Hearn
Geoserve**
Engineering Geological, Geomorphological
and Geohazard Assessment Services

COWI

Thursday 20 th November 2025		
0900-0930	Registration opens	
0930-0945	Welcome Address	
0945-1030	Keynote: Contours and curves: charting the topography of a career in geoscience	Maria Holloway-Strong, <i>AtkinsRéalis</i>
1030-1100	Tea & coffee break	
SESSION ONE		
1100-1115	A case study assessment of debris flow processes and potential impact on the A83, Lower Glen Croe	Frances Crabb, Jacobs
1115-1130	Engineering Geological Characterization of Hydrothermally Altered Materials in Dam Foundations	Sarah Jacob, BGC Engineering Inc.
1130-1145	A review of highway chalk cut slope performance and hazards in the Southeast of England	Emily Prosser, Mott MacDonald
1145-1200	Distinguishing mudstone, residual mudstone and subglacial till in CPTu and seismic data	Scott Adam Smith, Norwegian Geotechnical Institute
1200-1215	Q&A Session	
1215-1245	Poster presenters panel session	
1245-1345	Lunch and posters	
SESSION TWO		
1345-1400	Integrated Approach to Investigate Seawater Intrusion into Coastal Freshwater Aquifers Using Electrical Resistivity Tomography and Vertical Electrical Sounding: A Case Study in Cape Coast, Ghana	Emmanuel Anthony Kingspride Amissah, Technical University of Darmstadt (v)
1400-1415	“How do you recover from no recovery”, overcoming challenges posed by incomplete exploratory hole logs.	Jordan Sinnott, SYSTRA Ltd
1415-1430	Engineering Geologists in the Drive for Efficient, Net Zero Electrical Infrastructure	Thomas Kettle, Mott MacDonald
1430-1445	Q&A session	
1445-1515	Poster presenters panel session	
1515-1530	Tea & coffee break	
SESSION THREE		
1530-1545	Title Tbc	Title Tbc
1545-1730	Evening drinks & posters	

Friday 21st November 2025

0830-0900 Arrival, tea & coffee

SESSION FOUR

0900-0930 **Keynote:** Title TBC

Jonathan Hart

0930-0945 Total stress informed engineering geomorphology, and weathering profiles, as tools to better understand hydrological processes to inform landslide modelling in the Idukki region of Kerala, Southern India.

Vanessa J Banks, *British Geological Survey*

0945-1000 B4069 Lyneham Banks Landslide Remediation – Improving the georesilience of the UK's wonkiest road

Vicky Corcoran, *AtkinsRéalis*

1000-1015 Landslide Hazard Design Event Determination Using Magnitude-Cumulative Frequency Method: Observations from Case Studies in Hong Kong

Wenzhu Hou, *BGC Engineering Inc.*

1015-1030 Ventnor, Isle of Wight: the challenges of geology, landslides & climate on the town and its residents

Stephen Fort, *AtkinsRéalis*

1030-1040 Q&A

1040-1100 Tea & coffee break

SESSION FIVE

1100-1145 **Keynote:** Considering resilience in design for linear infrastructure subject to the effects of natural hazards

Jean D Hutchinson, *Queen's University*

1145-1200 Well gassing during dewatering works in central London

Toby Roberts

1200-1215 Landslide hazard assessment and mitigation: A case study of pipeline risk reduction from a mudslide in northeast Türkiye

David Waring,

1215-1230 Title TBC

Jessica Smith (v)

1230-1245 Use of Drones for Enhanced Fieldwork: Revolutionising Field Mapping, Geomorphology and landslide monitoring.

Adam Dargan, *AtkinsRéalis*

1245-1300 Q&A

1300-1400 Lunch & posters

SESSION SIX

1400-1430 **Keynote:** Title TBC

Stephanie Boffey-Rawlings, *AtkinsRéalis*

1430-1445 Hollowing out a mountain (again): the Cruachan Expansion project

Cat Hirst, *COWI UK Ltd*

1445-1500 Applying Total Geological History to Offshore Windfarm Development & Design-focused Ground Modelling

Andrew Hart, *AtkinsRéalis*

1500-1515 Engineering Geology in Tunnelling – More than Just Numbers?

Mark Diederichs, *Queen's University*

1515-1530 Q&A

1530-1600 How did Peter Fookes shape your career?

Gareth Hearn, *Hearn Geoserve, Mark Lee, Ebor*

1600-1630 Closing Remarks, posters, tea & coffee

Investigating Thermal-Hydro-Mechanical Coupling in Mudstones under Varied Thermal Cycles	Amanda Norman, <i>University of Leeds</i>
The use of Digital Geoscience on the C23 Section of the HS2	Gareth Barker, <i>EKFB</i>
Geodigital methods for assessing coastal erosion risk to critical infrastructure at Point Loma, San Diego	Natalie Stevenson, <i>Jacobs</i>
Preliminary feasibility analysis for offshore wind developments in the geologically complex Galerazamba Gap offshore of northern Colombia	Adam Kirby, <i>Geowynd</i>
Case Studies of Earth Structure Failures on an Aging Canal Network	Joshua Blacker, <i>Canal & River Trust</i>
Geological Realism in Slope Stability Analysis: Three-Dimensional Geological Modelling Compared to Worst-case Design Ground Models	Archie Bunney, <i>SYSTRA (UK & Ireland)</i>
The Origin and Genesis of the Glacial Deposits (Tills) of a Loch Lomond Stadial Glacier, and the Implications for Glacier Reconstructions: Glen Varragill, Isle of Skye	Tobias Alexander Darke, <i>Durham University</i>
Case study of the use of the observational approach to rock excavation for the STEP Abdelmoumen Project in Morocco	Thomas Chauvin, <i>Vinci Construction Grands Projets</i>
Cliffs of Moher Geohazard Assessment	Marie Fleming, <i>Arup</i>
The examination of periglacial shear surfaces and discontinuities in weathered mudstones	Giles Hemmings, <i>Eiffage-Kier-Ferrovial-BAM JV (EKFB)</i>
From concepts and comprehension to chaotic but confident and dynamic terrain evaluation: a quantum of relief	Paul Nathanail, <i>LQM</i>
Engineering the Anthropocene - From Desk Study to Construction on Historical Landfills - Case Study Slyfield Industrial Estate Access Road	Bridgette Maphosa, <i>AECOM</i>

Co-Convenors:

Ruth Allington – Allington Collaborative Problem Solving Ltd

Anna Morley - Arup

Gareth Hearn – Hearn Geoserve

Helen Reeves - Jacobs

Mark Lee – Ebor

Matt Owen – Global Maritime

Thank you to our sponsors

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The Geological Society

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