

Hybrid Conference

04 – 05 June 2025

Future Geohazards: Assessing the Impact of the Climate Crisis

CONFERENCE PROGRAMME



The
Geological
Society

Wednesday 4 th June 2025		
0900 - 0930	Registration opens	
0930 - 0940	Welcome address	
SESSION ONE: Mountain Hazards and Landslides		
0940 – 1025	Keynote Recent tsunamigenic landslides in Greenland and what they are telling us about the impact of climate change	Kristian Svennevig, <i>GEUS</i>
1025 - 1050	Rainfall induced landslide behaviour and implications of climate change, Undercliff, Isle of Wight, UK	Claire Czarnomski, <i>Jacobs Engineering UK</i>
1050 - 1115	Climate-Driven Landslide Dynamics in Northern Pakistan: Integrating Machine Learning and Climate Projections for Future Risk Assessment	Muhammad Ramzan, <i>Chinese Academy of Sciences</i> (virtual)
1115 - 1135	Coffee Break	
1135 – 1200	Assessing Moraine Stability in High Mountain Asia	Katie Quincey, <i>Mott MacDonald</i>
1200 - 1225	Adapting to Emerging Geohazards as a Consequence of Weather Extremes - A case study: Ardingly Reservoir Boat Park Landslide	Adam Dargan, <i>AtkinsRealis</i>
1225 - 1250	Landslides in Denmark – is that even a thing? Nationwide mapping shows hidden geohazard	Kristian Svennevig, <i>GEUS</i>
1250 - 1400	Lunch	
SESSION TWO: Human Activities		
1400 - 1425	The impact of climate change on pore water pressures in clay earthworks	Kevin Briggs, <i>University of Southampton</i>
1425 - 1450	Climate change and the increasing reliance upon developing and unstable countries for Critical Raw Materials - the problem with mine waste	Susan Digges La Touche (virtual)
1450 - 1515	Washout Vulnerability Assessment – Assessing the risk of runoff generated debris slides on linear infrastructure in the face of a changing climate	Christopher Cox and Miguel Mefle, <i>AtkinsRealis</i>
1515 - 1545	Coffee Break	
1545 - 1645	Panel Discussion – Knowledge Gaps in Landslides Hazards for Future Resilience	Claire Czarnomski (Jacobs), Katie Quincey (Mott MacDonald), Kevin Briggs (University of Southampton), Kristian Svennevig (GEUS)
1645 - 1700	Closing remarks	
1700	End of Day One	

Thursday 5 th June 2025		
0930 - 0955	Registration opens	
0955 - 1000	Welcome address	
SESSION THREE: Resilient Communities		
1000 - 1045	Keynote Coastal water and soil salinity hazards in Bangladesh	Mohammad Shamsudduha, <i>University College London</i>
1045 - 1110	Lessons learnt from the Sikuttiaq project: Sea ice travel safety, Inuit Qaujimagatuqangit, sea ice monitoring	Michel Tsamados, <i>University College London</i>
1110 - 1135	Climate Change and Transport Infrastructure: A Multi-Hazard Analysis of Combined Flood and Landslide Risks	Rachel Hannah Doley, <i>University of Birmingham</i>
1135 - 1200	Shaken and Weakened: The Lasting Health Effects of Geohazard Damage to Households	Rozana Himaz, <i>University College London</i>
1200 - 1225	Coffee Break	
1225 - 1250	Drowning in the Margins: Youth-Driven Tech and Community Intelligence in Flood-Resilient Lagos	Muna Okorie, <i>University College London</i>
1225 - 1250	Mapping Landslide Preparedness Risks through Facility Accessibility and Demographic Vulnerability in Cox’s Bazar Refugee Camps	Ziyue Shang, <i>University College London</i> (virtual)
1250 - 1310	Poster Lightning Talks	
1310 - 1430	Lunch	
SESSION FOUR: Coastal Hazards		
1430 - 1455	Using forward stratigraphic modelling to predict continental-scale coastal response to climate change , experience from Australia and the Baltic	Cedric M. Griffiths, <i>StrataMod Pty Ltd</i>
1455 - 1520	Impact of Groundwater in Compound Flooding: A Case Study of the Conwy Estuary in Wales.	Ankita Bhattacharya, <i>British Geological Survey</i>
1520 - 1545	Coffee Break	
1545 - 1610	General Discussion	
1610 – 1630	Closing remarks	
1630	End of Day Two	

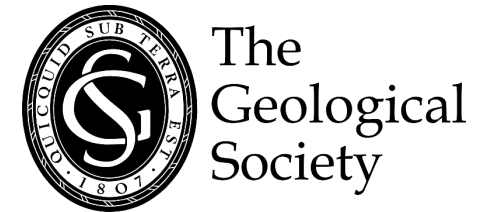
Poster Title	Author
Assessing Flood-Driven Geohazards Using UAV Photogrammetry and Machine Learning: Insights from Gravel-Bars of River Sense, Switzerland.	Rezwan Nahin (<i>Imperial College London</i>)
The Impact of Landslide Disasters on Public Health Systems in Remote Mountain Areas: Challenges and Responses in the Context of Climate Change	Gu Xiaoyu (<i>University College London</i>)
Building Georesilience: Lessons from Vanuatu’s Response to Climate Hazards, a case study of the 2015 Cyclone Pam	Zhang Walter Bishop (<i>University College London</i>)
Asking Those Who Feel It: Stories of Mountain Floods and Mental Health Crisis in Gilgit-Baltistan, Pakistan	Aaliya Aaliya (<i>Duke University</i>)

Convenors:

Matt Owen – Global Maritime Consultancy Ltd

THANK YOU

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