

De-Risking Geohazards in the Energy Transition

4th – 5th December

Virtual and Burlington House, Piccadilly, London W1J 0BG

Provisional Programme

Day One	
08.30	Registration
09.00	Welcome
	Session One: Techniques for the Assessment of Natural and Environmental Hazards
09.10	KEYNOTE: The Role of Rock Physics in the Energy Transition: Monitoring and Interpretation of Underground H₂ And CO₂ Storage Operations I. Falcon-Suarez
09.45	Assessing and Monitoring Surface Geohazards for Renewable Energy Projects in an Active Volcanic Region in British Columbia, Canada Sergio Sepúlveda
10.15	Quantitative Seismic Risk Assessment for Construction Activities at Offshore Wind Farms Vanessa Monteleone
10.45	BREAK
11.15	When Heterogeneity Becomes a Hazard: The REV Approach Annelotte Weert
11.45	Beyond the Basics: Optimising Marine Desktop Studies for Strategic Geohazard Assessment Simona Caruso
12.15	LUNCH
	Session Two: Economics of Hazard-prone Regions with Geoenergy Resources
13.15	KEYNOTE: The Cost of Risk in Hazard Prone Regions with Geoenergy Resources Aggie Georgiopoulou
13.40	De-risking Geological Disposal: Ground Engineering Hazards Andy Cooke
14.10	The Dynamics of Bias, Risk, and Uncertainty In Offshore Renewable Engineering Projects Dan Morgan
14.40	BREAK
15.10	KEYNOTE: Adaptation of Geohazards Assessment Process and Practice to Successfully Deliver Complex Offshore Projects through the Energy Transition Gareth Wood

15.40	The Effects of Fault Damage Zones on Geothermal Activity in Siliciclastic Reservoirs: A Modelling Study Frans Abern
16.10 Virtual	The Role of Seismic Monitoring in Improving the Safety of Underground Energy Storage Patricia Persaud
16.40	Drinks Reception
17.40	End of Day one

Day Two	
08.30	Registration
	Session 3: Case studies in Tectonically Active Regions
09.10	KEYNOTE: Direct Monitoring of Subaqueous Mass Movement Geohazards: Implications for Offshore Energy Transition Infrastructure Megan Baker
09.45	The Paso Anomaly: Shallow Gas Contained within Lower Pleistocene Glaciogenic Deposits in The Central North Sea Jack McLoughlin
10.15	Steps Toward Physics-Based Earthquake Forecasting: Simplifying Fault Slip and Building a Forecasting Framework Jessica Hawthorne
10.45	BREAK
11.15 Virtual	De-risking Geological Disposal: Long-Term Natural Processes Alex Hughes
11.45	Insight into Soil Liquefaction Assessment Methods for Efficient Risk Management of Seismic Hazard Indrasenan Thusyanthan
12.15	LUNCH
	Session 4: Natural and Induced Seismic Hazards
13.15	KEYNOTE: Hazard and Risk Assessment for Induced Seismicity In the Groningen Gas Field Frans Aben
13.40	FUSE - A new infrastructure to help de-risk site selection for future Underground Hydrogen Storage and White Hydrogen exploration Fausto Ferraccioli
14.10	From Uncertainty to Confidence: Assessing Shallow Gas Risks in Offshore Renewable Energy Michel Guillaume

14.40	BREAK
15.10	Risk Assessments of Upland Peat Sites Adjacent to Previous Landslides Chris Engleman
15.40 Virtual	De-Risking Seal Failure Associated with Mississippian-Age Submarine Landslides above Devonian Chattanooga Shale, A CO₂ Storage Container In Tennessee, U.S.A. C. Robertson Handford
16.10	Close of Conference

Poster Programme	
How Japan approaches Seismic resilience in the implementation of low carbon technologies, particularly in Nuclear and Geothermal Dafydd Maidment	
Layered Soils in the UK North Sea: Implications for Subsea Cable Burial and Risk Assessment Duncan Stevens	
BGS Marine Geoscience – Active mapping initiatives Dayton Dove	
Tracing active faults in the shallow subsurface of the Dutch North Sea – De-risking offshore wind energy Bart Meijninger, Johan ten Veen	
A new geophysics facility to aid Underground Hydrogen Storage research Erika Barison	
Tracing active erosion in the Gulf of Squillace: Multidisciplinary analysis and implications for offshore Geohazards Nora Markezic	

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