2nd Offshore Wind Symposium: Cables, pipelines and shallow infrastructure installation
18th-19th September 2025

The Geological Society, Burlington House and Zoom

Programme

Day One	
08.30	**Registration**
08.50	**Welcome by the convenors**
	Session One: Risks and Hazards: Geological
09.00	**KEYNOTE** **What is a Seismic Diffraction?** Mark Vardy, *SAND Geophysics*
09.40	**Probabilistic Seabed Mobility Assessment for Construction Activities of Offshore Wind Farms** Vanessa Monteleone, *DNV*
10.00	**BREAK & Posters**
	Session Two: Risks and Hazards: Geological
11.00	**Risk Mapping: Semi-automated Boulder Identification** Louis McCulloch, *Global Maritime*
11.20	**2D and 3D geospatial characterisation of submerged peat properties from the Southern North Sea** Lydia Brown, *University of Leeds*
11.40	**Hydrodynamic and Engineering Implications of Glacially-derived Gravel Lag Deposits; Mapping a Geo-constraint to Shallow Offshore Infrastructure** Gareth Carter, *Arup*
12.00	**Cable routing in a seismically active region** Alexander Cattrysse, *IMDC*
12.20	**Offshore Wind Asset Integrity - a strategy for monitoring cables** Craig Dyer, *RWE Renewables*
12.40	**LUNCH & posters**
	Session Three: Risks and Hazards: Geo-Engineering
13.40	**Implications of Trenching on the Operating Temperature of Marine Power Cables** Jon Duell, *University of Southampton*
14.00	**Maximising value from UXO Risk Mitigation** Robert Mills, *RWE Renewables*
14.20	**Utilisation of reconnaissance geo-data to assess inter-array cable hazards and constraints** Lorraine O'Leary, *Fugro GB Ltd*
14.40	**Risk Monitoring of Submarine Export Cables in the UK** Christopher Brennan, *Geo-4D*
15.00	**BREAK**
	Session Four: Ground Modelling

15.30	**Integrated Ground Models for long-distance submarine cable routes: a practical approach to CBRA needs** Morgane Ravilly, *GEOxyz*
15.50	**Practical consideration in using ground models for assessment of cable trenching** Peter Allan, *PACE Geotechnics Ltd*
16.10	**The development of shallow 3D integrated ground models for cable design** Nick Pryor, *Global Maritime*
16.30	**Use of 3D Integrated Ground Models for the Development of a Burial Assessment for Tool Feasibility and Selection** Holly Cairns, *Global Maritime*
16.50	**End of day one**
17.00-18.00	**Drinks Reception**

Day Two	
08.30	**Registration**
08.50	**Summary of Day 1**
	Session Five: Ground Modelling
09.00	**KEYNOTE** **CBRA: How deep is deep enough?** Mike Brown & Will Coombs, *Durham University*
09.40	**Impact of bedform migration and sediment mobility on ground modelling for submarine cables and pipelines** Charles Bloore, *Fugro GB Ltd*
10.00	**Ground Model Application in Offshore Wind – Installation Contractor Perspectives** Nawras Hamdan, *Seaway7*
10.20	**Mind the gap – integration of the nearshore transition area into cable and pipeline route ground models** Charles Bloore, *Fugro GB Ltd*
10.40	**BREAK**
	Session Six: Technical and Machine Learning
11.10	**Assessment on the Accuracy and Benefits of Subsea Cable Pre-Installation Geophysical Acoustic Imaging Surveys** Chris Williams, *Kraken Robotics*
11.30	**Advancing Thermal Design of Submarine Cables through Integrated 3D Geological and Finite Element Modelling** Sudur Roy, *Seequent*
11.50	**Automated CPT Cross-Section Generation for Offshore Cable Routes Using Dynamic Time Warping** Giuseppe Malgesini, *Geowynd*
12.10	**Quantitative Geophysical Analysis in Support of Cables** Callum Clay, *SAND Geophysics*
12.30	**LUNCH & posters**
	Session Seven: Modelling, Floating Wind, Drag Anchors
13.30	**Importance of Comprehensive Understanding of Seabed Conditions for Reducing the Risks of Submarine Cable Installation** Nusin Buket Yenigul, *Seaway7*
13.50	**An overview of the Joint Industry Project: Ground Investigation for Floating Wind (GIFT)** David Edwards, *DNV*

14.10	**Evaluating Ground Thermal Resistivity for Power Cable Design: A Comparative Analysis of Regional and Project Specific Thermal Conductivity Data** Thomas Nee, *National Grid*
14.30	**The benefits of an As-Live CBRA: risk and cost reduction during trenching operations** Adam Caton, *TernanEnergy*
14.50	**An Overview of the Geotechnical Survey & Testing Requirements for Drag Embedment Anchor's** Lloyd Inglis, *First Marine Solutions*
15.10	**Conference close**
15.20	**End of day two**

Posters

Magnetic anomalies related to young paleochannels Alex Espuñes Juberó, *Ramboll*
Integrating Aerial and Ground-Based Surveys to Characterise Submarine Cable Landfalls David Harrison, *Geo-4D*
Accelerating Seabed Planning with AI: Ocean Seeker for Shallow Infrastructure Risk Mitigation Eric Joyce, *Ocean Geophysics*
Layered Soils in the UK North Sea: Implications for Subsea Cable Burial and Risk Assessment Catriona Macdonald, *British Geological Survey*
Protection of Subsea Cables from External Threats – including Sabotage! Nicholas Mackenley, *Global Maritime*
Surface Clues, Subsurface Certainty: The Case for Geological Mapping at Landfalls Christopher Brennan, *Geo-4D*
Mapping of Seafloor Obstacles and Morphology from Multibeam Echosounder Data Paul Slater, *Global Maritime*

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