

3rd Offshore Wind Symposium: Geoscience for Offshore Wind

16-17 September 2026

The Geological Society, Burlington House, London and Virtual

Final Programme

Day One	
08.30	Registration
08.50	Welcome
	Session One: Geoscience for Cable Routing, Burial and Protection
09.05	KEYNOTE: How effective are our Ground models? Can conditional monitoring data from existing assets improve future modelling approaches? Professor Justin Dix
09.30	Integrated Geological Insights for the Lir Interconnector: Hazards, Constraints and Ground Model Development David Harrison, <i>Geo-4D Ltd</i>
09.50	Late-stage rerouting in a target rich environment: lessons from Unexpected Cultural Heritage Discoveries Alexander Cattrysse, <i>IMDC</i>
10.10	BREAK
	Session Two: Nearshore and Landfall Complexity
10.55	Integrating consent and engineering objectives at offshore cable landfalls along the Holderness Coast, UK. Claire Mellett, <i>Haskoning</i>
11.15	Nearshore sediment dynamics: how to plan for export cable routes Aggeliki Georgiopoulou, <i>Ternan Energy</i>
11.35	Derisking Cable Landfalls: Integrated Geoscience Approaches for Early-Stage Risk Reduction Onder Yonlu, <i>Fugro GB Limited</i>
11.55	When Ground Conditions Change the Plan: A Case Study from Eastern Green Link 1 Jack Poleykett, <i>Xodus Group</i>
12.15	LUNCH
	Session Three: Geoscience for Foundations and Support Structures
13.15	KEYNOTE: From Sand to Clay via Silt: Geological Controls on Transitional Soils Vicky Catterall, <i>RWE</i>
13.40	Quantifying Shallow Subsurface Lithological Variability using Geotechnical Logs: a similarity-based framework for the North Sea Duncan Elliott Stevens, <i>British Geological Survey</i>
14.00	Characterising Palaeovalley Fill Sequences: An Integrated Ground Modelling Approach Millie Haffenden, <i>Global Maritime</i>
14.20	Mapping of Sub-Seabed Soil Mechanical Properties Whilst Installing a 3-Pile Anchor in Seismically Heterogeneous Marine Soils Jacques Yves Guigne, <i>Subsea Micropiles</i>
14.40	BREAK - Poster session

15.25	Cracks in our foundations: The nature and origin of fractures in Ypresian clays Loic Piret, <i>Ghent University</i>
15.45	National Scale Ground Model Driving Spatial Characterisation of Seabed for UK Offshore Wind Helen Povey & Simon Libby, <i>WSP</i>
16.05	De-risking Ground Investigation: Site-wide Geotechnical Parameters and Uncertainty from Pre-stack Inversion of 3D UHRS Data at Green Volt OWF Esben Dalgaard, <i>SolidGround</i>
16.25	Shallow Geology Prediction with Ice Sheet Models: Dogger Bank, Scotian Shelf, & Grandbanks Matthew Drew, <i>Memorial University of Newfoundland</i>
16.45	Regional geological synthesis across offshore wind developments in the Central North Sea Margaret Stewart, <i>British Geological Survey</i>
17.05	End of day one
17.05-19.05	Drinks Reception

Day Two	
08.30	Registration
08.50	Welcome and Summary of Day 1
	Session Four: Geoscience for Foundations and Support Structures
09.00	KEYNOTE: Navigating Risk on Europe's Glaciated Margin: From Marine Geohazards to Geo-Engineering Solutions Benjamin Bellwald, <i>NGI</i>
09.25	Uncertainty in Machine Learning-Based Vs Predictions from CPTu and Its Impact on Monopile Design Yuting Zhang, <i>University of Southampton</i>
	Session Five: Surveys and Data
09.45	Acquisition and deblending of an (ultra-) high resolution simultaneous source technique Peter Cox, <i>RockWave</i>
10.05	When More Is Not Enough: Unlocking the Potential of High-Resolution SAS Data for Automated Object Detection Andrijana Horvat, <i>Hidrocibale</i>
10.25	BREAK
	Session Six: Digitalisation and Data Integration
11.10	KEYNOTE: Core insights: what the seabed is telling us? Chelsea Bradbury, <i>The Crown Estate</i>
11.35	Beyond Mechanical Classification: Uncovering Hidden Installation Constraints through Integrated Ground Modelling – A Bay of Seine Case Study Arthur Blouin, <i>Geosciences Department, GEOxyz</i>
11.55	Building a Petabyte-Scale Digital Ecosystem for Offshore Wind: Roadmaps, Challenges, and Geoscience Lessons Darren Biggs, <i>ET Works Ltd</i>

12.15	Assessing uncertainties in quantitative ground modeling workflows for offshore windfarm areas Lennart Siemann, <i>Fraunhofer IWES</i>
12.35	LUNCH
13.35	Enhanced Boulder Detection in Seismic Through Wavefield-Based Diffraction Imaging Sandeep Bhambher, <i>RockWave</i>
13.55	Towards a regional chronostratigraphic framework for the southern North Sea: Integrating multisource subsurface data Nicola Dakin, <i>British Geological Survey (BGS)</i>
14.15	BREAK
15.00	A Fully Automated Workflow for the Application of UDCAM-S in the Design of Offshore Monopile Foundations Miquel Lahoz, <i>Seequent, The Bentley Subsurface Company</i>
15.20	A depth-oriented future: advancing offshore wind seismic with tomographic velocity model building Tas Burn, <i>RockWave</i>
15.40	Satellite-Derived Bathymetry as an Operational Monitoring Layer for Offshore Infrastructure Damir Matić, <i>Hidrocibale d.o.o.</i>
16.00	Green Volt Part 2: A Journey from Brownfield to Site-Wide 3D Data Jordan Gear, <i>Global Maritime</i>
16.20	KEYNOTE: The cultural and heritage values of offshore geology Hanna Steyne, <i>Wessex Archeology</i>
16.45	Closing remarks
17.00	End of day two

Posters – Day One

Early-phase sediment mobility assessments for subsea cables Holly Cairns, <i>Global Maritime</i>
Calculation of stable seabed level surface, for use in offshore cable route engineering and sediment mobility studies Paul Slater, <i>Global Maritime</i>
Understanding palaeo versus present day sediment mobility: a case study from a North Sea cable route survey. Susan Rice, <i>Fugro</i>
Optimisation of offshore wind export cable routing using GIS-based suitability analysis Jovana Maksimovic, <i>Gavin & Doherty Geosolutions Ltd, Venterra Group</i>
Dr. N. Buket Yenigul Buket Yenigul, <i>Seaway7</i>
Multidisciplinary Landfall Characterisation - How best to Characterise Challenging Coastal Sites David Harrison, <i>Geo-4D Ltd</i>
NOMAD: A Dual-Propulsion AUV Architecture for Vessel-Independent Geophysical Survey of Offshore Wind Sites Aryan Shah, <i>InX Tech</i>

Advanced sub-bottom sonar technology in offshore UXO target identification – a state-of-the-art review using case studies from Northern Europe Lee Gooderham, <i>Dolomite</i>
Investigating Late Quaternary palaeoenvironments in the Southern North Sea: Ultra-High Resolution Seismic analysis and Implications for offshore wind Development Karam Saredidine, <i>Department of Earth Science and Engineering, Imperial College London</i>
Don't forget the Jack-up David Edwards, <i>DNV</i>
The importance of inherited glacial landforms on predicting ground conditions Lydia Kathleen Brown, <i>University of Leeds</i>
Offshore Engineering Geomorphology and Terrain Interpretation: A Critical Ground Model Element for Offshore Wind Projects Melanie Froude, <i>OWC</i>
An updated stratigraphic framework for the Inner Moray Firth: Supporting safer Offshore Wind Development Simon Blet, <i>Fugro</i>
Geology of the North Channel - insights from Historic Geophysical and Geotechnical Surveys Charles Bloore, <i>Fugro GB Marine</i>
A regional stratigraphic framework for the Dutch sector of the North Sea derived from offshore wind farm site investigations Harry Eady, <i>Fugro</i>
Optimising ground investigations using mooring design parameters for floating offshore wind farms. Alex Nurdin, <i>University of Aberdeen</i>
From Soil to Shallow Bedrock: Implications for Site Investigation and Foundation Design in Offshore Wind Vanessa Monteleone, <i>DNV</i>
Geohazard assessment for IODP Exp 507 - the first borehole to core the 1.2 km North Sea Quaternary depocentre Jane Huuse, <i>Seismic Geoscience</i>

Posters – Day Two

Assessment of Subsurface Hazard Prediction and Uncertainty Between Sparse SBP Lines Using 2D and 3D UHRS Comparison Cai Xinwei, <i>Imperial College London</i>
Subseabed Targets: When Too Many Targets Become Too Much? Manuela Jaklić Grbić, <i>Hidrocibale</i>
Pushing Beyond Drilling Chris Ruoso, <i>Next Geosolutions</i>
Assessing seabed conditions in support of offshore wind development on the Scotian Shelf, Canada Pierre-Arnaud Desiagne, <i>Geological Survey of Canada – Atlantic, Dartmouth, Canada</i>
Multi-Modal Geospatial Deep Learning for Shallow Marine Geohazard Segmentation and Risk Mapping Haonan Zhang, <i>InX Tech / Imperial College London</i>

Zonal Site Investigation for Offshore Wind: Geophysical–Geotechnical Fusion for Smarter Ground Models, Lower Risk and Better Bankability <i>Jacques Guigne, Subsea Micropiles/University of Bath</i>
From Sparse Interpretations to Survey-Scale Seismic Classification: An Interpreter-Guided Deep-Learning Workflow for Offshore Wind Site Characterisation <i>Miaozhou Tang, Department of Earth Science & Engineering, Imperial College London</i>
Satellite-Derived Bathymetry as an Operational Monitoring Layer for Offshore Infrastructure <i>Damir Matić, Hidrocibalae d.o.o.</i>
From maps to volumes: example of a 3D geohazard assessment for offshore wind <i>Guillaume Michel, National Oceanography Centre (NOC), Southampton, UK</i>
Evaluating “A New Reliability-Based Design Method for Offshore Wind Turbine Foundations Using Monte Carlo Simulation”: A Systematic and Critical Review <i>Oluwatobi Odubela, Kingston University</i>
From Data Management to Engineering Insight: An Integrated Workflow Along Offshore Routes <i>Alessio Saccon, Next Geosolutions and Seequent</i>
Exploring the integration of multiple complimentary geophysical datasets to improve potential UXO discrimination in distinct geological settings <i>Tom Larby & Frederic McEwen-Read, Ordtek Limited, Venterra Group</i>
Machine-Learning Surrogate Optimisation for Floating Offshore Wind Mooring and Anchoring Systems <i>Zohreh Moradinia, Daryad</i>
Society of Underwater Technology’s (SUT) Guidance Notes For Risk Identification And Common Mitigations Related To Unexploded Ordnance (UXO) For Offshore Renewable Energy Developments <i>Annelies Vanstraelen, Independent consultant</i>
Synthetic seismic data for training automated detection of buried channels in offshore wind site surveys <i>Fatemeh Bozorgi, Imperial College London</i>
Spotting boulders before they stop turbines - part 1: using forward modelling to optimise 3D EHRS acquisition and processing <i>Nick Woodburn, RockWave</i>
Quantitative Integrated Ground Modelling - An enhanced ability to optimise OWF site characterisation <i>James Faroppa, Fugro</i>
An Integrated Conceptual Geological Model of Offshore Galway Bay for Offshore Wind Site Characterisation <i>Onome Omas Okobiebi, Ulster University</i>

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