



An Introduction to Offshore Geophysics and Geotechnical Engineering

4 & 5th December 2019 – Hosted by Southampton University

DAY 1 (Geophysical theme) National Oceanography Centre

08.30 Registration & Coffee

09.00 Chairperson – OSIG Introduction
Andy Barwise, Innogy

09.15 Industry Sectors
Mick Cook, MCL Consultancy

09.45 Site Investigation Planning
Brendan Murphy, RPS

10.15 Introductory Seismic Principles
Dei Huws, Bangor University

11.15 Break

11.45 Geophysical Systems
Richard Orren (Consultant)

12.15 Geohazard Assessment
Gareth Wood, BP

12.45 Practical Introductions
Justin Dix, Southampton University

13.15 Lunch

14.15 Computer Based Geophysical & Ground Modelling Practicals
Southampton University: Justin Dix, Mike Clare and Mark Vardy. Gareth Wood (BP)

- **Geohazards**
- **Time Lapse Swath Bathymetry and Cable Operations**
- **3D Seismic, Borehole Integration & Ground Model**
- **Acoustic Inversion**

17.15 Break

17.30 Evening Buffet

18:00 Development Constraints, Mini Lectures

- **Environmental Assessment**, Katie Cross, MarineSpace
- **Marine Archaeology** Paul Baggaley, Wessex Archaeology
- **UXO**, Lee Gooderham, Ordtek

20.00 Close

DAY 2 (Geotechnical theme), National Infrastructure Laboratory

08.30 Coffee

08.50 Chairperson– Introduction
Andrew Benson, Atkins

09.00 Geotechnical Investigation Systems
TBC

09.30 CPT and Other in Situ Tests
TBC

10.00 Laboratory Testing
Santiago Quinteros, NGI

10.30 Break

11.00 Foundation Design for Offshore Structures
Sebastien Manceau , Atkins and Darren Burbury, Fugro

11.45 Jack-up Platforms
Julian Osborne, Vattenfall Wind Power

12.15 Pipeline Design
Toby Powell, Subsea 7

12.45 Lunch

14:00 Laboratory Based Practicals & Demonstrations
Southampton University: Dave White, Susan Gourvanec, Antonis Zervos and Jon Downes

- **Core Logging**
- **Basic Lab Testing & Classification**
- **Advanced Lab Testing**
- **In Situ Testing and ROV/AUVs**
- **Model Testing**

17.15 Close