Oligo-Miocene Carbonate Sedimentary Models in Malta

Join trip expert Prof. Dan Bosence as he introduces carbonate sedimentology and sequence stratigraphy through comprehensive lectures and immersive field study of the Oligocene and Miocene limestone outcrops of Malta and its sister island, Gozo.

Malta benefits from exposures of system tracts across depositional models of both a carbonate-rimmed platform and a carbonate ramp, which illustrate the principles of sequence stratigraphy. The overprints of synsedimentary tectonics associated with rifting and spectacular karstic-collapse structures also raise interest. These exposures provide a good training ground for evaluating carbonate rocks and serve as very good analogs for Cenozoic reservoirs.

OBJECTIVES
- Study the main facies models for carbonates, ramps, and rimmed shelves through lectures and field studies
- Undertake sequence-stratigraphic analysis of carbonate successions from seismic sections and from outcrops to apply these to borehole data interpretation
- Understand how synsedimentary tectonic movements control carbonate accumulation, particularly how synsedimentary faults affect facies distribution

AUDIENCE
Petroleum geologists, general geologists, sedimentologists, reservoir modellers, reservoir engineers, petrophysicists

DESTINATIONS
Malta, Gozo

TRIP LEADER
Prof. Dan Bosence is Emeritus Professor of Carbonate Sedimentology at Royal Holloway, University of London. He has a long, distinguished history of research and teaching in carbonate sedimentology and processes, and has led several courses in carbonate facies and sequence stratigraphy.

ACTIVITIES
This course balances lectures with exercises and outcrop studies so participants can gain a thorough basic understanding of carbonate deposition, diagenesis, and stratigraphic architectures.
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