

ZAGROS EXPLORATION WORKSHOP



For Oil & Gas Exploration & Operating Companies

27-28 January

2016

The Institute of Materials, Minerals and
Mining
London

Structure, Tectonics, and Hydrocarbon Systems in Iran and Iraq

This two day workshop will provide an overview of the structure, tectonics and hydrocarbon systems within the Zagros mountain belt through Iran and the Kurdistan region of Iraq. The first day will develop a broad, comprehensive framework to help understand Zagros hydrocarbon systems and the optional second day will look at aspects of Zagros structural style in more detail. Topics will range from regional geodynamics to fractured reservoirs to exploration challenges.

The workshop will be taught by Richard Jones and Mark Allen from Geospatial Research (GRL) and University of Durham, and is suitable for geoscientists from oil and gas companies interested in the Zagros region.

For bookings and more information please contact:
Natalie Field (n.field@nautilusworld.com)



ITINERARY:

Day 1 – Tectonic Overview and Structural Essentials

- “The Big Picture” – regional geodynamics
 - ◆ Evidence: geodetics (GPS), seismology, tomography, the stratigraphic record
 - ◆ Plate model: Prototethys, Palaeotethys, Neotethys, oblique Zagros collision
- Zagros regions and regional stratigraphy
 - ◆ Promontories and embayments – Zagros zones and regions
 - ◆ Lithostratigraphy, biostratigraphy, chronostratigraphy, sequence stratigraphy, mechanical stratigraphy
 - ◆ Stratigraphic correlation
- Overview of hydrocarbon systems
 - ◆ Stacked reservoir/seal pairs
 - ◆ Traps – essentials (and intro to detailed Day 2 content)
 - ◆ Timing
- Fractured reservoirs
 - ◆ Fracture systems, fracture porosity and permeability
 - ◆ (Intro to detailed Day 2 content)
- Structural cross-sections
 - ◆ Construction, balancing, uncertainty
 - ◆ Fold mechanisms revisited – fracture prediction
- Summary and Conclusions

Day 2 – Structural Complexity

- Trap formation
 - ◆ Fold geometries, fold mechanisms
 - ◆ Mechanical stratigraphy – multiple detachments
 - ◆ Basement inheritance
 - ◆ Breached traps
 - ◆ Stratigraphic traps
- Fractured reservoirs
 - ◆ Fracture systems, fracture porosity and permeability
 - ◆ Characterising fractures from outcrop and sub-surface
 - ◆ Fractures related to folds and faults
 - ◆ Timing of fractures
 - ◆ Mechanical stratigraphy in relation to fractures
 - ◆ Fracture characterisation as input for reservoir modelling
- Exploration challenges
 - ◆ Ambiguities in surface geology
 - ◆ Imaging sub-surface complexity
 - ◆ Surface to sub-surface correlation
- Summary and Conclusions

PRICING:

Day 1: **£715**

Day 1 & 2: **£1,030**

Lunch is included, please let us know if you have any special dietary needs.

