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AAPG



EAGE/AAPG Workshop on Tectonostratigraphy of the Arabian Plate

STRUCTURAL EVOLUTION OF THE ARABIAN BASINS

2-5 NOVEMBER 2025 • RIYADH, SAUDI ARABIA

- **First Announcement**

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OVERVIEW

We are excited to welcome you to this novel workshop covering the wide tectonostratigraphic framework of the Arabian Plate and the associated effects of tectonics on the region's lithostratigraphy and its relationship to the major structural and stratigraphic phases throughout the geological history.

This workshop is designed to provide a comprehensive understanding of the principles and techniques used to analyze structural forces that shaped the rock formations of the Arabian Plate. Participants will explore various topics, including regional structural geology and sequence stratigraphy, as well as the interpretation of geological maps and cross sections. Through a combination of lectures, hands-on activities, and field-trip exercises, we aim to equip the participants with the skills and knowledge necessary to identify and analyze the main structural features within the Arabian Plate. Whether you are an industry professional, researcher or student, this technical event offers valuable insights into the dynamic processes and tectonics that formed the extensive stratigraphy of the Arabian Plate.

Tectonostratigraphy of the Arabian Plate boasts of an exciting itinerary featuring a 2-days field trip to Riyadh including East Janadriyah & Umm-Shual anticlines.

The 2-day technical program following the field trip will cover the following topics:

1. Tectonostratigraphy of the Arabian Plate

- Tectonic setting of the plate interior & Boundary
- Outcrop & core insights
- Sequence stratigraphic framework and sedimentology
- Salt tectonics

2. Structural evolution of the Arabian Plate

- Structural configuration & Paleogeography
- Fracture network

3. Key plays and petroleum systems in the Arabian Plate

- Numerical & Basin Modelling of structural plays, petroleum systems, geomechanics, restoration
- Emerging concepts, challenges (including unconventional, CO2 trapping, Geothermal)
- New methodologies in structural trapping

4. Case studies





FIELD TRIP OBJECTIVE

The understanding of tectonics in exploring hydrocarbon reserves is vital for our industry. The Arabian plate contains numerous basins and hinterlands that have changed throughout time. The structural elements of these basins define our petroleum systems in terms of shape, content, and evolution. This field work aims to bring to light outcrop- and basin-scale structural elements that have affected or continue to affect the outcrop and subsurface of the Arabian plate.

Field Trip Outcomes

- Establishing tectonostratigraphic fieldtrip and surface case studies in Saudi Arabia:
- Observing and characterizing folds and faults in the field in terms of stress, strain, scale, and associated features
- Linking field observations to tectonostratigraphic knowledge to predict similar features in the subsurface and its impact on reservoir, seal, and trap.
- Emphasizing the link between structural settings and sedimentation patterns
- Comparing field-scale observations to subsurface and their impact on the petroleum systems

IMPORTANT DATES

Call for Abstracts Open	18 July 2024
Call for Abstracts Close	5 May 2025
Technical Programme Available	20 June 2025
Registration Open	20 June 2025
Early Registration Deadline	7 October 2025

SPONSORSHIP

To view the full range of sponsorship opportunities available at the EAGE/AAPG Workshop on Tectonostratigraphy of the Arabian Plate: Structural Evolution of the Arabian Basins, please get in touch at mai@eage.org.

CONTACT

For more information on the workshop, please get in touch with the EAGE MEA team via middle_east@eage.org or +971 4 369 3897.

CALL FOR ABSTRACTS NOW OPEN!





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