



ONSITE BROCHURE



12-14 October 2026
Crowne Plaza Muscat by IHG
Muscat, Oman

3RD EDITION AAPG STRUCTURAL STYLES OF THE MIDDLE EAST GTW

TECHNICAL PROGRAM COMMITTEE

Co-Chairs

Ivan Callegari
GUTech

Meshal Al-Wadi
KOC

Andreas Scharf
Sultan Qaboos University

Majid Aljamed
Aramco

Antoine Delaunay
KAUST

Elias Kharusi
Petrogas E&P

Oskar Vidal-Royo
Terractiva

David Repol
PDO

Christian Heine
Shell

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Petroleum Development Oman



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Table Top Exhibitors



DAY 1: MONDAY 12 OCTOBER

07.30-08.30 **Workshop Registration**

08.30-08.45 **Workshop Co-Chairs' Welcome and Introduction**

08.45-09.00  **Inaugural Keynote**
Mohammed Al-Mazrui
Exploration Director, PDO

09.00-09.30  **Technical Keynote**
Simon Stewart, Aramco
Structural Style Frontiers - A
Perspective from Saudi Arabia

09.30-10.05 **Poster Presentations Summary Session**

SESSION 1: LATEST ADVANCES ON TECTONIC EVOLUTION OF THE MIDDLE EAST

Session Co-Chairs **David Repol, PDO**
& **Antoine Delaunay, KAUST**

10.05-10.30 **Irene Gomez-Perez, Independent**
Late Neoproterozoic Tectonic Evolution of Oman:
From Rifting to Orogeny

10.30-11.05 **Coffee Break & Posters**

11.05-11.30 **Andreas Scharf, SQU**
Permian Fossil Hyperextended Rifted Margin with
Exhumed Mantle in Eastern Arabia (NE Sultanate
of Oman)

11.30-11.55 **Lukasz Gagala, Aramco**
Pre-Ordovician Paleotopography in the
Subsurface of the Arabian Platform Revealed by
Integrated Seismic and Magnetic Constraints:
Inselbergs or Possible Carbonate Build-Ups?

11.55-12.15 **Q&A Session**

12.15-13.25 **Lunch**

SESSION 2: CASE STUDIES IN THE STRUCTURAL EVALUATION OF COMPLEX RESERVOIRS, TRAPS & STORAGE

Session Co-Chairs **Majid Aljamed, Aramco**
& **David Repol, PDO**

13.25-13.50 **Philip Bassant, Aramco**
Structural Doming Caused by a Large Asteroid
Impact in the Devonian of Northern Saudi Arabia

13.50-14.15 **Alan Vaughan, PE Limited**
Structural Modelling in Complex Traps – Zagros
Belt Case Studies

14.15-14.35 **Coffee Break & Posters**

14.35-15.00 **Christian Heine, Shell**
Paleostress Evolution of the Arabian Plate: The
Effects of Changing Plate Boundary
Configurations Since the Jurassic

15.00-15.25 **Jeres Cherdasa, Aramco**
Fault Stress Modeling Impact on CO₂
Sequestration Potential within Rift Basin Settings

15.25-16.00 **Q&A Session**

DAY 2: TUESDAY 13 OCTOBER

SESSION 3: SALT TECTONICS IN THE MIDDLE EAST

09.00-09.30  **Technical Keynote**
Wilfried Bauer, GUTech Oman
The Neoproterozoic Basement of
Oman

Session Co-Chairs **Antoine Delaunay, KAUST**
& **Andreas Scharf, SQU**

09.30-09.55 **David Repol, PDO**
New Insights on the Structural Styles and
Mechanism of Deformation of Southern Oman

09.55-10.20 **Alejandro Amilibia, Terractiva**
Salt-related Early Inversion in the Anaran
Anticline, Lurestan Province, Iranian Zagros

10.20-10.45 **Saif Harthy, PDO**
Gravity-Driven Salt Deformation Event in the
Fahud Salt Basin, Northern Oman: A Regional to
Field Scale Structural Study

10.45-11.10 **Coffee Break & Posters**

11.10-11.35 **Arindam Pal, Aramco**
Integrated Reservoir Modeling for CO₂ Storage
within Salt-Influenced Clastic Depositional
Systems

11.35-12.00 **Abdullah Al Gahaffi, PDO**
Structural Evolution of Al Huwaisah South Area

12.00-12.30 **Breakout Session**

12.30-13.30 **Lunch**

SESSION 4: DIGITAL TOOLS, DATA ANALYTICS AND AI IN STRUCTURAL GEOLOGY

Session Co-Chairs **Majid Aljamed, Aramco**
& **Meshal Al-Wadi, KOC**

13.30-13.55 **Pascal Richard, PRgeology**
Virtual Reality: The Solution to Inaccessible Fault
Zones

- 13.55-14.20 **Amani Mohammed Al Rubaiey, Slb**
Agile Structural Modelling: Using AI Towards Fully Automated Seismic Interpretation
- 14.20-14.40 Coffee Break & Posters
- 14.40-15.05 **Christopher Wibberley, TotalEnergies**
Fault Damage Zone Prediction – Statistical Analyses of Outcrop Analogues
- 15.05-15.30 **Ranjan Das, Aramco**
3D Modeling of Basalt Fracture Networks for CO2 Mineralization: A Case Study
- 15.30-15.55 **Pascal Richard, PRgeology**
Where AI Helps (and Where It Doesn't): Lessons from a Structural Style Interpretation Course Preparation Case Study
- 15.55-16.15 **Breakout Session**

DAY 3: WEDNESDAY 14 OCTOBER

SESSION 5: EXAMPLES OF STRUCTURALLY INFLUENCED RESOURCE PLAYS & HYDROCARBON FIELDS OF THE MIDDLE EAST

- Session Co-Chairs** **Ivan Callegari, GUTech & Oskar Vidal Royo, Terractiva**
- 09.00-09.25 **Amanda Pouwel, PDO**
Evolution of Ediacaran Carbonate Platforms in North Oman: Insights from Seismic Attribute Analysis and Tectonic Load Modeling
- 09.25-09.50 **Yasir Ghorashi, Aramco**
Structural Controls on Hydrocarbon Accumulation: Case Studies from the Middle East/Saudi Arabia
- 09.50-10.15 **Pascal Richard, PRgeology**
Deciphering the Evolution of a Complex Subsurface Structure Using the Combined Input of 3D Seismic and Experimental Analogue Models
- 10.15-10.35 Coffee Break & Posters
- 10.35-11.00 **Sawaa Sawaei, PDO**
Examples of Structurally Influenced Resource Plays & Hydrocarbon Fields of the Middle East
- 11.00-11:25 **Jakub Fedorik, Aramco**
Interference Structures in the Arabian Platform
- 11.25-11.50 **Jason Roberts, PDO**
Characterizing Quaternary to Pliocene Uplift in North Oman – A Hidden Gem
- 11.50-12.10 Wrap Up Session
- 12.10-12.20 **Closing Remarks and Adjournement**
- 12.20-14.00 Lunch



Poster Presentations

Zainab Alibrahim, Aramco

Thermally Induced Fracturing and Geomechanical Weakening in Synthetic Rocks: Implications for Structural Styles and Reservoir Integrity

Riyam Al Riyami, PDO

Structural Analysis and Derisking of Haima Opportunities in Ramlat Rawl AOI-Ghaba Salt Basin

Salim Shuaili, PDO

In Situ Stress Orientations and their Regional & Local Structural Influence Across Oman

Reem Aboushoug, NOC Libya

Tectonic Evolution of Offshore Central Libyan Margin (Offshore Sirt Province)

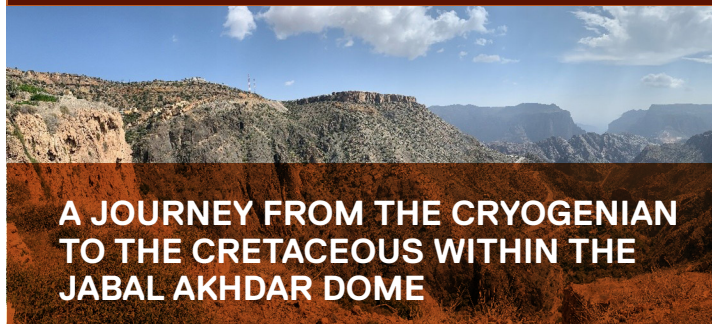
Salwa El-Sattar, Sultan Qaboos University

Tectonic Setting and Fluid Source of Carbonated Ultramafic Rocks from Northeastern Sultanate of Oman

Wala Al-Lawati, Sultan Qaboos University

Fracture Development and Fluid Flow During Multi-Phase Post-Obduction Deformation of the Muri Anticline, Jabal Akhdar Dome, Sultanate of Oman

Field Trip



A JOURNEY FROM THE CRYOGENIAN TO THE CRETACEOUS WITHIN THE JABAL AKHDAR DOME

15-16 October 2026

FIELD TRIP LEADERS



Ivan Callegari
GUtech Oman



Wilfried Bauer
GUtech Oman



Andreas Scharf
Sultan Qaboos
University



Salwa El-Sattar
Sultan Qaboos
University

FIELD TRIP INTRODUCTION

The Jabal Akhdar in the Central Oman Mountains forms a ~90 km × 60 km dome. The core of this dome consists of Cryogenian to Ediacaran siliciclastics and carbonates, including source rocks. These rocks are separated from the overlying rocks by a spectacularly exposed angular unconformity. The rocks above this unconformity are Permo-Mesozoic shelf carbonates of the Arabian passive margin. The rocks below the unconformity are folded twice, while those above show no such folding. During the Late Cretaceous, Arabia was overthrust by the Samail Ophiolite and Hawasina deep-sea sedimentary rocks. Final doming occurred during the late Eocene to early Miocene. The Jabal Akhdar Dome is a textbook example of stratigraphy and structural geology development from the Cryogenian to the present. Furthermore, findings from the dome can be used as a natural laboratory and serve as an analogue for the hydrocarbon-bearing sequences in interior Oman.

The two-day field trip will start at the Saiq Plateau where we will examine Cryogenian Snowball-Earth diamictites with cap carbonates, blended within the scenic landscape of Jabal Akhdar. The second day will start at a breath-taking vista point at Wadi Bani Awf. From there we will descend into the core of the Jabal Akhdar and explore the structural style of the Cryogenian and younger succession.

AAPG

2026-2027 Middle East & Africa Events Calendar

2026

NOV
9-11

EAGE/AAPG
GTW

2nd Edition: Geothermal Energy
in the Middle East
Jeddah, Saudi Arabia

NOV
16-18

AAPG/EAGE
GTW

5th Edition: Hydrocarbon Seals
of the Middle East
Kuwait City, Kuwait

DEC
7-9

AAPG/EAGE
GTW

3rd Edition: Maximizing Asset Value:
Integrating Geoscience with Reservoir
Management and Technologies Optimization
Al Khobar, Saudi Arabia

2027

APR
6-8

SPE/AAPG/SEG
Symposium

URTeC East
Abu Dhabi, UAE

APR
19-21

AAPG/EAGE
Symposium

West African Transform Margin:
Proven Successes and Emerging Frontiers

JUN
21-23

AAPG
GTW

Chasing the Next Giant:
Play-Opening Opportunities along
the Southern African Margin,
with Insights from South America
Windhoek, Namibia

SEP
14-16

SPE/AAPG/EAGE/SEG
Conference

MEOS GEO Conference
and Exhibition
Bahrain

OCT
18-20

EAGE/AAPG
Conference

Libya Petroleum & Geoscience
Conference & Exhibition:
Unlocking the HC Potential of North Africa
and the Mediterranean
Tripoli, Libya

NOV
15-17

EAGE/AAPG
Symposium

Carbonates and Mixed Carbonate Systems:
Showcasing Contemporary Understanding
and Frontier Applications
Riyadh, Saudi Arabia

DEC
7-9

EAGE/AAPG/SEG
Symposium

GEO 4.0: Digitalization in
Geosciences Symposium
Al Khobar, Saudi Arabia