

EAGE

EUROPEAN
ASSOCIATION OF
GEOSCIENTISTS &
ENGINEERS



Second EAGE Workshop on Advances in Carbonate Reservoirs: from Prospects to Development

7-9 APRIL 2026 • KUWAIT CITY, KUWAIT

- **First Announcement**

WWW.EAGE.ORG

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OVERVIEW

The O&G industry's motto/goal is to explore and convert every drop of oil in the subsurface to resources. As such, it's crucial to focus on exploring and developing carbonate reservoirs, which are significant contributors to global hydrocarbon reserves, we would like to focus on exploring and developing them. However, their exploration and development can be very challenging due to their heterogeneous nature, diagenesis, cementation, and variability in porosity and permeability. Moreover, with oil resources becoming increasingly difficult to discover, it is essential to maximize the recovery from existing mature fields to ensure production sustainability and meet growing energy demand. Therefore, it's essential to address challenges of carbonates reservoirs by exploring the latest technology applications and tools needed to manage these complex reservoirs with greater efficiency and effectiveness.

The objective of this workshop is to address the opportunities & challenges associated with complex carbonate reservoirs. This includes frontier exploration for carbonate plays, reservoir characterization, production optimization, and management approaches that involve work processes, technology, and people. This workshop provides a forum for experts in the industry to share their knowledge, exchange ideas & experiences, collaborate on solutions, share best practices and lessons learned to meet the immediate and long term business needs and support the industry to improve recovery from these Carbonate reservoirs.



TOPICS

Geoscience Reservoir Characterization and Modeling of Carbonate Reservoirs

- Core Analysis & BHI
- Formation evaluation
- Geochemistry and Diagenetic Controls
- Advance Seismic interpretation & inversion
- Reservoir Analogues and Outcrop Integration
- Mixed Reservoir Systems
- Depositional Modeling and High-Resolution Mapping
- Sequence Stratigraphy
- Carbonate Play Assessments and Risking
- Carbonate Off-structure Plays and Subtle Traps
- Dolomitization Processes and Their Impact on Porosity and Permeability

Reservoir Modeling & Simulation

- Dynamic Reservoir Simulation
- Upscaling Techniques
- History Matching
- Static Modeling & Plumbing Diagram Integration
- DFN (Discrete Fracture Network) Modeling and Calibration
- Integrated Asset Modeling Across Life Cycle
- Coupling Reservoir Models with Surface Network Models
- Petrophysical Rock Typing
- Saturation Height Functions
- Reservoir Mapping and Fluid Contact Uncertainty: OWC vs. ODT Applications
- Sweet Spot Prediction

Advances in Drilling and Completion

- Geomechanics in Naturally Fractured Carbonates
- Well Placement Optimization
- Integration of Geomechanics and Petrophysics in Well Trajectory Design
- Real-Time Geosteering Techniques for Horizontal Wells
- Wellbore Stability in Complex Structures
- Innovations in Drilling Fluids for Carbonates
- Breakthroughs in Drilling & Completion Design
- Smart and Multi-Stage Completions in Heterogeneous Carbonates
- Wellbore Cleanout and Stimulation Access Optimization
- Cement Quality and Well integrity

Production Optimization

- Advanced Techniques to Enhance Carbonate Production
- Hydraulic Fracturing in Tight Carbonates
- Matrix Acidizing and Acid Diversion Techniques
- Innovative Well Interventions and Work-overs
- Artificial Lift Selection and Optimization for Carbonates
- Novel Completion Techniques and Flow Control Devices
- IOR/EOR Applications in Carbonates (e.g., Smart Water, CO₂)

Reservoir Monitoring and Management

- Production Forecasting with Decline Curve Models
- Reservoir Depletion and Pressure Management
- Uncertainty Quantification and Risk Reduction Strategies
- Big Data Applications in Real-Time Reservoir Monitoring
- Complex Reservoir Management with Multilateral Wells
- Produced Water Handling, Treatment, and Reuse



From Discovery to Development: Advance Carbonate Solutions. **Submit your abstract by 30 November 2025.**

Surface & Facility Integration

- Flow Assurance and Facility Design for Carbonate Fields
- Well-to-Facility Optimization Strategies
- Carbon Capture, Utilization, and Storage (CCUS) Opportunities
- Energy Efficiency and Surface-Subsurface Integration

Machine Learning and Digital Transformation in Carbonates

- AI and ML in Carbonate Reservoir Characterization
- Facies Prediction Using Unsupervised and Supervised Learning
- Fracture Detection from Well Logs Using AI
- Predictive Modeling for Porosity, Permeability, and Water Saturation
- Machine Learning in History Matching and Production Forecasting
- Integration of AI into Exploration-to-Development Workflows
- Best Practices for Data Quality and Feature Engineering in ML Models

Integrated Case studies, Lesson learned and Best Practices

- Case Studies from Global Carbonate Fields
- Lessons Learned from Development Failures and Turnarounds
- Best Practices in Integrated Reservoir Modeling
- Workflow Standardization in Carbonate Projects

IMPORTANT DATES

Call for Abstracts Open	25 July 2025
Call for Abstracts Close	30 November 2025
Technical Programme Available	23 December 2025
Registration Open	30 November 2025
Early Registration Deadline	2 February 2026

SPONSORSHIP

To view the full range of sponsorship opportunities available at the Second EAGE Workshop on Advances in Carbonate Reservoirs: from Prospects to Development, please get in touch at corporaterelations@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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