

EAGE

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ASSOCIATION OF
GEOSCIENTISTS &
ENGINEERS



First EAGE/ALNAFT Workshop – Unlocking Hydrocarbon Potential of West Mediterranean Offshore Frontier Basin of Algeria

11-13 MAY 2026 • ALGIERS, ALGERIA

- **First Announcement**

WWW.EAGE.ORG

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OVERVIEW

The First EAGE/ALNAFT Workshop – focused on pioneering strategies and innovations to explore and develop Algeria's deep and ultra-deep offshore resources. Under the theme, "Explore the Unexplored: Collaborate, Innovate, Discover," the event will bring together leading experts, policymakers, and industry professionals to explore the future of Algeria's oil and gas potential.

This inaugural collaboration between EAGE and ALNAFT aims to foster knowledge exchange and technical dialogue around emerging exploration opportunities, innovative technologies, and strategies that can drive sustainable resource development.

Through focused technical sessions and interactive discussions, participants will examine the geological potential of underexplored basins, advancements in data acquisition and interpretation, and the evolving investment landscape shaping Algeria's energy sector.

Designed as a platform for collaboration and insight, the workshop will highlight the critical role of innovation, partnerships, and capacity building in unlocking new hydrocarbon opportunities. By integrating technical excellence with strategic vision, the event seeks to support Algeria's efforts in strengthening its position as a key energy player in the region. Participants can expect valuable networking opportunities, high-level discussions, and shared perspectives that will contribute to advancing exploration and production success across the country's next hydrocarbon frontier.



TOPICS

Decoding the Frontier Margin: From Deep Earth to Deep Sea

Objective: Build a holistic understanding of the Algerian offshore margin.

- Margin evolution: rifting, transform zones, magmatism, crustal architecture.
- Integration of gravity, magnetic, and seismic data to define crustal domains.
- Stratigraphic and structural evolution of the Western, Central, and Eastern offshore.
- Source-to-sink systems and sedimentary dynamics.
- Key tectono-stratigraphic controls on hydrocarbon prospectivity.

Seismic Data Processing & Imaging Excellence

Objective: Showcase Algeria's capability in turning raw data into subsurface insight.

- Seismic acquisition design optimization for offshore environments.
- Processing innovation:

Multiple attenuation, SRME, and deghosting in marine data

Advanced demultiple and noise suppression techniques

Full Waveform Inversion (FWI) and velocity model building

Least-Squares Migration (LSM), RTM, and amplitude preservation

- Imaging challenges: sub-salt and basalt, deep reflectors, low S/N data.
- Time–depth conversion, tomography, and static modeling in nearshore zones.
- Machine learning in seismic QC, denoising, and attribute extraction.
- Joint inversion: integrating gravity, magnetics, and seismic for deeper imaging.



Subsurface Characterization & Quantitative Interpretation

Objective: From seismic image to reservoir understanding.

- Quantitative interpretation (QI): AVO/AVA, elastic inversion, and rock physics.
- Seismic attributes for stratigraphic and structural interpretation.
- Integration of seismic, wells, EM, and gravity data.
- Machine learning for facies classification and lithofacies prediction.
- Near-surface modeling and static corrections in marine-to-onshore transition.

Energy Systems & Frontier Plays

Objective: Identify and model hydrocarbon systems of the offshore domain.

- Petroleum systems modeling and source rock analysis.
- Charge–migration–trap evolution modeling.
- New play concepts: turbiditic, carbonate build-ups, and transform margin traps.
- Uncertainties and risk mapping through data integration.
- Multi-resource potential: hydrocarbons, CO₂ storage, and geothermal.

SPONSORSHIP

To view the full range of sponsorship opportunities available at the First EAGE/ALNAFT Workshop – Unlocking Hydrocarbon Potential of West Mediterranean Offshore Frontier Basin of Algeria, 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!



IMPORTANT DATES

Call for Abstracts Open	22 October 2025
Call for Abstracts Deadline	9 February 2026
Technical Programme Available	10 March 2026
Registration Open	9 February 2026
Early Registration Deadline	5 April 2026



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