

EAGE

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Libya Petroleum & Geoscience

Conference & Exhibition

**FIRST
ANNOUNCEMENT**

18–20 October 2027 | Tripoli, Libya

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WELCOME TO TRIPOLI, LIBYA

Three days of technical excellence, strategic collaboration, and new opportunities in one of the world's most promising energy regions.

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CONFERENCE OVERVIEW

The Libya Petroleum & Geoscience Conference and Exhibition in Tripoli is the leading platform for the region's upstream industry and geoscience community. With the theme, **"Unlocking the Hydrocarbon Potential of North Africa and the Mediterranean"** this conference brings together national oil companies (NOCs), international majors, and wildcat explorers to plot the future of the region's vast, oil-rich basins. With Europe focussing on nearby North African supply and Libya aggressively pushing to break production ceilings, the event serves as a potential marketplace for negotiating new concession blocks, securing rig availability, and locking down multi-billion-dollar joint ventures that will define the Mediterranean energy grid for years to come.

Technically the event serves as a premier geological and geophysical conference, deeply rooted in the subsurface complexities of North Africa and the Mediterranean. The agenda highlights the deployment of advanced 3D/4D seismic acquisition, seismic imaging and inversion, structural geology modeling, and high-resolution reservoir characterization to reduce exploration and development uncertainty. Special emphasis is placed on unlocking stratigraphic traps and optimizing development in complex settings like the Sirte, Ghadames, Cyrenaica and Murzuq basins, alongside deepwater offshore plays on the Pelagian Shelf.

Delegates will delve into petrophysics, sequence stratigraphy, sedimentology, petroleum systems, and reservoir geochemistry, leveraging these disciplines to strengthen reservoir understanding and maximize fluid-flow efficiency.

Furthermore, the event bridges traditional geoscience with the energy transition, addressing the geological modeling required for subsurface characterization and monitoring for Carbon Capture, Utilization, and Storage (CCUS), deep saline aquifer management, geothermal resource assessment, and the integration of artificial intelligence (AI) and machine learning into automated seismic interpretation and reservoir modeling.

TOPICS

1. Regional Geology, Tectonics, and Basin Analysis

- Regional scale basin evaluation and role of tectonic evolution on petroleum systems.
- Tectonic evolution and structural deformation of the Libyan basins, Pelagian Shelf, Offshore Sirt and Mediterranean Ridge.
- Stratigraphic Frameworks (Sequence stratigraphy, biostratigraphy), sedimentology and depositional environmental models to define exploration plays in the North African clastic and carbonate reservoirs.
- Play fairway analysis, prospect evaluation, geological risk assessment and exploration portfolio management.
- Integrated charge evaluation (Basin Modelling, Geochemistry, PVT).
- Emerging Conventional, Unconventional and tight-reservoir exploration.
- Salt tectonics, diapirism, and sub-salt structural and stratigraphic traps.
- Emerging Plays in offshore and onshore basins.
- E2E Sweetspotting of contaminants CO₂, H₂S, N₂.
- FromSource to Reservoir: Integrated Field Geology studies.

2. Geophysics, Seismic Acquisition, and Subsurface Imaging

- Advanced land and marine seismic acquisition for complex Mediterranean geology.
- State of the art imaging and velocity model building to unlock the Libyan subsurface.
- Rock physics, seismic inversion, and Amplitude Versus Offset (AVO) analysis for fluid and lithology prediction.
- Time-lapse (4D) seismic monitoring for fluid-front tracking and reservoir management in mature reservoirs.
- Applications of AI and Machine Learning (ML) to automated seismic interpretation and subsurface imaging.
- Multi-component seismic, azimuthal seismic analysis, and fracture characterization.
- Quantitative interpretation (QI), seismic attributes, and uncertainty analysis.
- Exploration technologies for deep, high-pressure, high-temperature, and tight reservoirs. Formation Evaluation and Petrophysics: Low-resistivity pay identification, Tarmat characterization, advanced logging technologies, integrated reservoir characterization, and solutions to complex subsurface challenges.

3. Reservoir Engineering and Production Optimization

- Integrated static and dynamic reservoir modeling for complex structural and stratigraphic networks.
- Enhanced Oil Recovery (EOR) and Improved Oil Recovery (IOR) techniques.
- Petrophysical evaluation of low-resistivity pay zones, thin bedded reservoirs, and fractured carbonate reservoirs.
- Flow assurance and production chemistry, managing asphaltenes, wax, scale, and produced water challenges.
- Smart completions, intelligent wells, and downhole inflow control devices (ICDs) for water/gas management.
- Digital reservoir management, intelligent field development.
- Production surveillance and real-time optimization.
- Reservoir simulation, history matching, and production forecasting under uncertainty.
- Well-Centric Reservoir Development and Production Optimization: Shale oil and unconventional reservoir challenges, geosteering, geomechanics, production enhancement in tight formations, reservoir surveillance, and field-based case studies.

4. Drilling, Well Engineering, and Field Operations

- Managed Pressure Drilling (MPD) and Extended-Reach Drilling (ERD) in narrow pressure windows.
- High-Temperature / High-Pressure (HTHP) well design, wellbore stability analysis, and fluid system optimization.
- Rig automation, digital twin deployment, digital drilling technologies, and real-time operations center (RTOC) workflows.
- Advanced cementing, casing design and well integrity management for highly fractured zones and depleted reservoirs.
- Sand control and management in poorly consolidated sandstones, unconsolidated reservoirs and production integrity management.
- Asset integrity management: pipeline corrosion control, subsea structural monitoring, and aging facility rehabilitation.
- Well logging, formation evaluation, and geosteering for optimized well placement.
- Drilling optimization through real-time data analytics, automation, and predictive maintenance.



5. Subsurface Decarbonization and the Energy Transition

- Geological site screening, subsurface characterization, and characterization for Carbon Capture, Utilization, and Storage (CCUS).
- Caprock integrity, geomechanical assessment, and structural integrity modeling for safe, long-term CO₂ storage.
- Methane emissions monitoring and leak detection and repair (LDAR) technologies in field operations.
- Zero-routine flaring engineering: flare-gas capture, compression, utilisation, and monetization strategies.
- Carbon monitoring, verification, and risk assessment for geological storage projects.
- Solar-to-oilfield integration: powering remote drilling rigs, pumps, and water treatment facilities with renewable microgrids.
- Geothermal energy utilization from co-produced, high-temperature oilfield brines and depleted reservoirs.
- Subsurface hydrogen storage: evaluating the feasibility of salt caverns and depleted reservoirs in North Africa.
- Integrated subsurface solutions for CCUS, geothermal energy, hydrogen storage, and natural gas storage.
- Artificial intelligence and digital technologies for low-carbon subsurface resource management.

6. Digital Transformation, Artificial Intelligence, and Emerging Technologies

- Digital geoscience and digital oilfield technologies, cloud computing, and high-performance computing (HPC).
- Artificial intelligence, machine learning, and generative AI for geoscience, drilling, reservoir management and production optimization.
- Big data integration, uncertainty quantification, and decision support.
- Advanced visualization, data integration, and collaborative technologies for asset management.
- Emerging technologies shaping the future of the petroleum and energy industries.

IMPORTANT DATES

Call for Abstracts Open	29 July 2026
Call for Abstracts Close	22 March 2027
Technical Programme Available	29 April 2027
Registration Open	22 March 2027
Early Registration Deadline	15 September 2027

SPONSORSHIP

To view the full range of sponsorship opportunities available at the EAGE/ AAPG Libya Petroleum & Geoscience Conference & Exhibition, please get in touch at mai@eage.org

CONTACT

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CALL FOR ABSTRACTS NOW OPEN!



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