New Exploration Opportunities and Energy Resource Challenges
Subsurface Exploration Opportunities and Energy Challenges Transition

Contact us: promotion@etap.com.tn
www.etap.com.tn
54, Avenue Mohamed V - 1073 Tunis, Tunisie
Tél : (+216) 71 28 53 00 - Fax : (+216) 71 90 22 82
Dear Colleagues,

On behalf of the American Association of Petroleum Geologists (AAPG) and the European Association of Geoscientists and Engineers (EAGE) it is my pleasure to welcome you to the inaugural Mediterranean and North African Conference and Exhibition (MEDiNA) under the theme ‘New Exploration Opportunities and Energy Resource Challenges’.

An outstanding array of industry professionals from all over the world will participate and share during the sessions. We are also exceptionally fortunate to be able to host panel sessions on Countries Forum: Legal, Contracts and Costs; Energy Transition in the North African and Mediterranean Regions; Under-Explored Basins in the Mediterranean Region and Unconventional Plays in North Africa and Data Management and Digital Transformation. The participation of IOC's, NOC's, academia, other government agencies, and technology and service providers awards great depth and diversity to this meeting and we look forward to the interaction and contributions of their representatives.

An event of this magnitude is only possible due to the dedication and hard work of the Technical Program Committee, supporting organizations, and the army of volunteers who have worked tirelessly to make this event a success. But above all we owe a debt of gratitude to our session presenters and their employers for sharing examples of geoscience, engineering, and energy related projects from across the region.

I am very confident that the 2022 MEDiNA Conference and Exhibition will provide a great opportunity for all of us to exchange ideas and share valuable knowledge with fellow professionals and for our industry to overcome the challenges and improve business efficiencies.

I look forward to meeting you over the course of the next 3 days and am confident that this joint AAPG-EAGE event will be both memorable and an invaluable experience for all who attend.

Sincerely,

Abdelwaheb Khammassi
General Chair, MEDiNA Conference and Exhibition
President and CEO, ETAP

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Diamond Sponsor

Silver Sponsor
MEDITERRANEAN AND NORTH AFRICAN CONFERENCE AND EXHIBITION
12–14 September 2022
Tunis, Tunisia

Venue
The MEDiNA Conference and Exhibition will take place at the Laico Tunis – Spa and Conference Center.

Registration
All conference registrations must be accompanied by full payment of delegate fees:

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Member*</td>
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* To take advantage of the ‘Member’ rate you must be an active member of AAPG or EAGE

The conference registration fees include:

- Admission to the opening ceremony
- Admission to all oral and poster sessions
- Entry to the exhibition
- Access to the abstracts from the conference
- Coffee break refreshments and luncheons

Conference Opening Ceremony
The conference opening ceremony takes place on Monday, 12 September from 17:00 – 18:30 in the Carthage Ballroom at the Laico Tunis – Spa and Conference Center. See enclosed program for details of speakers.

Abstracts
The abstracts will be shared with all registrants at the end of the event.

Conference Presenters
All oral presenters must report to the Speaker Check-in Room located in the Utique Meeting Room, with their presentation 24 hours before their presentation is scheduled to take place. Poster presenters must report to the Speaker Check-in Room with their printed poster on Monday 12 September.

Posters
A variety of poster presentations will be displayed during the course of the conference. We would encourage all attendees to take a moment during the session breaks to view these posters covering a range of related subjects.

Lunches
Conference lunches are included for all registered attendees. Lunch will be served in the El Maaeda Restaurant on Tuesday 13 and Wednesday 14 September from 12:00 – 13:30.

Coffee Breaks
Coffee breaks will be served in the Oya Ballroom each day at the following times:

<table>
<thead>
<tr>
<th>Date</th>
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<tr>
<td>Monday 12 Sept.</td>
<td>16:30 – 17:00</td>
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<td>Tuesday 13 Sept.</td>
<td>10:00 – 10:30</td>
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<tr>
<td>Wednesday 14 Sept.</td>
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Security and Safety
All attendees are required to wear their conference name badge at all times. Use of a badge by the person not named on the badge is grounds for confiscation. If you lose your conference badge, please return to Registration to obtain a replacement. Attendees are requested to remain vigilant at all times and anybody acting suspiciously should be reported to a member of the AAPG, EAGE or venue team. In the event of an emergency, staff will provide conference attendees with any necessary information and instructions. More details will be available on site. One of the key components to the success of the conference is the safety of our attendees and presenters. Due to the popularity of some session topics, it is possible for overcrowding to occur in a session or meeting room. Should this occur, we must comply with policies regarding room capacity and limit admittance to a room that is at capacity. Please make plans to arrive early for sessions that you have a strong interest in attending.

Photography
All conference sessions are protected by international copyright laws. Photography and video/audio recording of any kind are strictly prohibited in the sessions and throughout the exhibition area.

Canvassing
Canvassing for business, the distribution of literature and / or samples other than by exhibitors from their own stands is strictly prohibited.
## PROGRAM OVERVIEW

### Monday 12 September

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session Title</th>
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<tr>
<td>17:00–18:30</td>
<td>Carthage Ballroom</td>
<td>Opening Ceremony</td>
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### Tuesday 13 September

<table>
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<tr>
<th>Time</th>
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<th>Session Title</th>
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<tbody>
<tr>
<td>08:30–10:00</td>
<td>Carthage Ballroom</td>
<td>Sedimentary Systems</td>
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<tr>
<td>10:30–12:00</td>
<td>Salambo Ballroom</td>
<td>Energy Transition Advances in Geophysics</td>
</tr>
<tr>
<td>12:00–13:30</td>
<td>Eddyafa Meeting Room</td>
<td>Countries Forum: Legal, Contracts and Costs – Panel Session</td>
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<tr>
<td>13:30–15:00</td>
<td>Carthage Ballroom</td>
<td>Basin Architecture of the Mediterranean</td>
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<tr>
<td>15:00–17:00</td>
<td>Carthage Ballroom</td>
<td>Regional Geological Models in the Evaluation of Hydrocarbon Prospectivity</td>
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### Wednesday 14 September

<table>
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<td>Energy Transition</td>
</tr>
<tr>
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<td>Salambo Ballroom</td>
<td>Energy Transition in the North African and Mediterranean Regions – Panel Session</td>
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<td>Under-Explored Basins in the Mediterranean Region and Unconventional Plays in North Africa</td>
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<td>Carthage Ballroom</td>
<td>Data Management and Digital Transformation – Panel Session</td>
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OPENING CEREMONY

Date: Monday 12 September
Time: 17:00 – 18:30
Venue: Carthage Ballroom

The grand opening ceremony of the MEDiNA conference will focus around the theme of ‘New Exploration Opportunities and Energy Resource Challenges’. The ceremony will commence with the Opening Address by Mr. Abdelwaheb Khammassi, Conference General Chair and President and CEO, ETAP, followed by the Ministerial Address by H. E. Mrs Neila Nouira Gonji, Minister of Industry Energy and Mines, Tunisia. This will then be followed by 2 keynote speeches by Mr. Eric Schmid, Associate Director, S&P Global Commodity Insights and Mr. Tristan Aspray, Director, Frontier Exploration, ExxonMobil.

Opening Address
Rachid Ben Daly
General Director
Energy Tunisia

Ministerial Address
H. E. Mrs Neila Nouira Gonji
Minister of Industry, Energy and Mines, Tunisia

Keynote Addresses
Eric Schmid
Associated Director, S&P Global Commodity Insights

Tristan Aspray
Director, Frontier Exploration, ExxonMobil

The Role of the Mediterranean in Meeting Today’s Energy Challenges
Virtual Talk

The North African Hydrocarbon Industry in the Wider African Perspective

Take a Deeper Look at AAPG Membership

Growth
Credibility
Voice
Mentoring

aapg.org
PANEL SESSIONS

Countries Forum: Legal, Contracts, and Costs

Date: Tuesday 13 September
Time: 10:30–12:00
Venue: Carthage Ballroom

Moderator: Rachid Ben Daly
Speakers: Jamal el Kasbi, Walid El Fakri, Hichem Mansour

With high global oil and gas prices and the COVID pandemic coming under control, the North Africa and Mediterranean (NAMed) region can hopefully begin to look forward to a brighter economic future but are the key fundamentals attractive enough for the development and exploration of oil and gas resources in the region? With the emergence of new resource rich provinces (Guyana, Suriname, Namibia, Ivory Coast, South Africa) and the increasing need for security of supply, due to the war in Ukraine, there is still high competition for new capital investment. The NAMed Region needs to ensure it provides a business environment that is attractive to investment and there are a number of factors which are relevant to this:

- A stable political regime with a simple and efficient legal and regulatory framework that accelerates the approval process for investment decisions and M&A activity.
- Infrastructure that allows efficient transportation of oil and gas reserves to both local and international markets especially as demand increases with the expected global economic growth.
- Access to a skilled local workforce and stable industrial relations that are conducive to the rapid development of energy resources.
- A competitive cost structure throughout the region with access to key resources and practices such as aeolian and photovoltaic energy, which can drive progress in the decarbonization of the region's energy systems.
- Continued control over the COVID pandemic through an effective vaccine roll out across the whole region.
- A transparent process for the award of new licences with fiscal terms allowing a balanced approach to risk and reward that are attractive to all sizes of energy company.
- Collaboration between countries within the region and between energy companies and the host governments.

Maintaining a control over these factors and especially the political stability of the individual countries and the contractual framework for the development of energy assets will be essential for the confidence of external capital investment. If there is a perception that a country has excessive government take or involvement causing unnecessary delays, complex legal frameworks, corruption and political instability then investment will very quickly disappear.

This panel session will discuss the key legal, contractual and cost fundamentals for creating a positive business environment for investment at both the local and regional level in the NAMed.

Energy Transition in the North African and Mediterranean Region

Date: Wednesday 14 September
Time: 10:30–12:00
Venue: Carthage Ballroom

Moderator: TBC
Speakers: Yannick Peysson, Eric Schmid, Jill Lewis

The Mediterranean and North African region have played a key role in providing conventional hydrocarbon-based energy to Europe and the rest of the world for almost a century. However an increased awareness of the negative impact that gas emissions associated with the excessive use of hydrocarbons has on the climate and environment has led to a change in the vision of the future energy landscape across the globe.

Energy strategies and practices on clean energy transitions from African countries is now at the center of political and industry development agendas of both NOCs and IOCs. In this context the geoscience community can play a key role in sharing expertise to enhance data, inform decision-making and guide policy guidelines to accelerate the implementation of geo-energy technology and geo-energy exploitation such as geological capture of CO2 and geothermal energy. A sustainable and accelerated development through a varied mix of technologies across North Africa and the Mediterranean region, will be key to meet the Sustainable Development 7 (SDG 7) i.e. promote increased energy security and affordability, and accelerate the development of clean energy systems.

The panel discussion will be an occasion to hear from government policy makers, energy experts and industry representatives on the current energy pathways and recommendations to accelerate clean energy transitions in the Mediterranean and North African region.

There will be a focus on best practices in support of new energy policies which can drive progress in the decarbonization of the region’s energy systems.

Opportunities for deployment of clean, affordable and efficient energy sources and practices such as aeolian and photovoltaic energy, sustainable hydrocarbons exploration and production, underground storage of CO2, and exploration of renewable energy resources such as geothermal fluids and hydrogen will be discussed thus contributing to shape the future energy landscape in the Mediterranean and North African region.
This panel will try to address the key technical and commercial questions pertaining to the overall exploration potentials and future role of under-explored basins in the Mediterranean region as well as the unconventional plays in North Africa. Several large basins in the Mediterranean region have seen very little exploration activities, or witnessed recent change in exploration paradigm (e.g., basins offshore Algeria, Tunisia, Libya, Egypt; the Levant Basin, the Adriatic and Ionian Seas). In addition, developing vast shale gas reserves in North Africa became particularly relevant since the global demand and prices of gas increased a lot, particularly in recent times (e.g., Paleozoic Ghadames Basin – Algeria-Tunisia-Libya, up to 230,000km², Late Silurian Tannezuft and the Frasnian Aouinet Aouline Formations with an average organic-rich net thickness of 30m to 80m, at 2500m to 4000m depth, and TOC of 3% - 25%).

Oil and gas have been explored and produced for years in the onshore margins of the Mediterranean Sea. Since the 1960s the offshore E&P activity has been successfully and progressively increasing in several basins, such as Nile and Ebro Deltas, the Adriatic and Ionian Seas, offshore Libya and Tunisia and more recently offshore Egypt, Cyprus, Israel and Lebanon, where several giant gas discoveries have been made with reserves in excess of 5 TCF each (estimated overall reserves >65 TCF). Other offshore areas have also been promoted for E&P such as the Albanides, Hellenides, Tunisia and Algeria. Thus, a wide variety of petroleum systems with significant potential has been proven, including source rocks and reservoirs ranging from Mesozoic to Cenozoic ages. The massive Messinian salt interval – still subject of controversy – and the deep water depths frequently hamper pertinent evaluations of the hydrocarbon potential, and leave several regions under-explored. Technology advances such as subsalt seismic processing and imaging – e.g., direct hydrocarbon indicators (DHI) –, numerical and analog modeling methods, as well as drilling and production technologies in deep waters, together with the market increasing demand have started recently to attract exploration interests, leading to better understanding of the regional tectonic and stratigraphic frameworks and a better assessment of the remaining potential in the Mediterranean region.

The adjacent North Africa region hosts as well vast potential Paleozoic unconventional hydrocarbon plays (e.g., >700 TCF of OGIP in Algeria, 132 TCF in Tunisia; EIA, 2013). Mesozoic plays (particularly oil-prone) include the Alban, Fahdene (3% TOC) and Early Turonian, Bahloul (6% TOC) Formations in the Tunisian Pelagian Basin. The Early Eocene (Cenozoic) Bou Dabous Formation (TOC of 0.4% to 4%), generates 18° to 53° API oil. Yet these and other similar plays in North Africa remain very challenging, particularly in terms of predicting: thermal maturity, total organic carbon content, reservoir thickness distribution, reservoir mineralogy (clay types, quartz content), reservoir homogeneity and the amount of adsorbed and free gas fractions within the pores and fractures. In addition, other practical challenges related to production and surface infra-structures (e.g., availability of extensive, cost effective surface and processing facilities, the South Tunisia pipeline has a capacity of 10MMm³/day). These challenges result in large uncertainties with respect to commercial production rates for the shale gas plays. While the amendments of policies of most North African NOCs could encourage industry investments in unconventional exploration, the technical E&P challenges still need to be addressed.

Under-Explored Basins in the Mediterranean Region and Unconventional Plays in North Africa

Date: Tuesday 13 September
Time: 15:30–17:00
Venue: Carthage Ballroom

Data Management and Digital Transformation

Date: Wednesday 14 September
Time: 15:30–17:00
Venue: Carthage Ballroom

The Digital Transformation is the integration of digital technology into all areas of a business, changing the way of operating and delivering value to customers.

Today, digital transformation presents massive potential for oil and gas companies as it provides businesses with real-time information and greater visibility into operations, particularly when it comes to the performance of people and assets.

In the digital transformation journey, data is considered a very valuable asset. Unlocking its potential through advanced management and analytics technologies is key to improve efficiency in decision making and productivity. This also provides more visibility, critical insight, and real-time information on assets and operations.

In the oil and gas business, companies are generating large volumes of data. This then is consumed by humans and machines in a connected world where the machines (things) are dominating the biggest part of the supply chain.

However, the digital transformation journey can be slowed down or even fail if the data management challenges are not tackled efficiently. Data in silos, unstructured data landscape, poor quality, and the absence of data governance are the major obstacle towards a successful transformation.

A good data strategy is key to deliver the right insights and actionable information at the right time. Besides of the right purpose the data (human or machine) must receive such service in a secure manner.

This session will explore the need for emerging technologies to transform the oil and gas business and will also emphasize how state-of-the-art data management is a key enabler for a successful digital transformation.

Real-life examples of data management and digital transformation will be illustrated as well.
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<tr>
<th>Time</th>
<th>Session</th>
<th>Chair(s)</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>08:30–09:00</td>
<td>Some Insights from Hydrocarbon Exploration on the Geodynamics of the NE Mediterranean</td>
<td>Fadi Nader &amp; Fares Khemiri’</td>
<td>L. Montadert*, S. Nicolaides, S. Arsenikos</td>
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<tr>
<td>09:00–09:30</td>
<td>Seismo-Stratigraphy of Deep Messinian Incisions in the North West Sector of the Sicily Channel and North East Tunisian Offshore</td>
<td>Andrea Moscariello &amp; TBC</td>
<td>E. Meftah*, O. E. Eruteya, A. Moscariello</td>
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<tr>
<td>09:30–10:00</td>
<td>Source to Sink in Reservoir Prediction: Incorporating Provenance Data and Machine Learning to Predict Reservoir Distribution</td>
<td>Pierre-Olivier Bruna &amp; Ahmed Dahech</td>
<td>J. L. Kennedy*, J. Redfern, S. Schröder, J. Argent</td>
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<tr>
<td>10:00–10:30</td>
<td>Inauguration of Exhibition &amp; Coffee Break</td>
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### PANEL SESSION

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<th>Time</th>
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<tr>
<td>10:30–12:00</td>
<td>Countries Forum: Legal, Contracts and Costs</td>
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</table>
TECHNICAL PROGRAM – Tuesday, 13 September

WELL AND REGIONAL DATA FOR HYDROCARBON EVALUATION
Session Chairs: Martin Jakubowski & Salah Elekhfifi

13:30–14:00 Prediction Of S-Wave Velocity using Machine Learning Algorithms Combined with Empirical Mode Decomposition-Based Approaches
S. Gagi*, M. Farfou

14:00–14:30 An Integration Geological Data with High Resolution Logs Technology to Improve Geological Model for Libyan Sandstone Reservoirs
T. S. Duzan*

14:30–15:00 Overview on the Different Development Techniques in the Tight Ordovician Sandstones of Bir Ben Tartar Field: Vertical vs. Horizontal Wells and Mono or Multi-Frack Stages
H. Tagougui*, J. Beltaief, A. Abdelkefi

15:00–15:30 Coffee Break & Posters

DIGITAL TRANSFORMATION IN THE OIL AND GAS INDUSTRY
Session Chairs: Jamila Fares & TBC

15:30–16:00 Digital Transformation and Remote Operations in the Oil and Gas Industry, Nawara as Example
A. Hammoudat*, N. Manojovic

16:00–16:30 Predicting Near Misses with Low Signal HSE Data
A. Cowie*, M. Eldred, J. Thatcher, A. Rehman, C. Sonne-Schmidt*

16:30–17:00 Tunisia Oil and Gas Infrastructures
N. Hedhli*

Eddyafa Meeting Room

SALT RELATED PLAYS
Session Chairs: Mohamed Hedi Acheche & TBC

08:30–09:00 Constraining Salt Diapirs Rise Rates: New Insights from the Pelagian Platform (Northern Tunisia)

09:00–09:30 The Role of Pre-Orogenic Faulting and Salt Diapirism on Atlasic Deformation in South Tunisia: Combining Balanced and Restored Cross-Sections with Gravity Modeling
M. Gharbi*, H. Gabtni, D. Boote*, M. Soua, H. Mouakhar

09:30–10:00 Evidence of Subsurface Salt and its Influence on Reservoir Structures, Gabes-Tripoli Basin, Western Offshore, Libya
N. Khalifa*, S. Back

10:00–10:30 Inauguration of Exhibition & Coffee Break

ADVANCES IN QHSE PROCESSES AND MONITORING
Session Chairs: Ali Gaaya & Martin Jakubowski

10:30–11:00 Integration of the QHSE Management System in the Life of Oil and Gas Wells
B. I. Dieye*

11:00–11:30 Application of "Chronic Unease" to Improve Drilling Quality
G. Gattouch*

11:30–12:00 Foraminifers as Monitoring Tool for Sea Water Pollution at Hariga Harbor in Tobruk, NE Libya
S. El Ekhfifi*, E. O Abdulsamad, M. F El Hassi, M. Masoud, A. Muftah

12:00–13:30 Lunch

Any changes made to the program after the 6th of September will not reflect on the brochure.
### TECHNICAL PROGRAM – Wednesday, 14 September

#### Carthage Ballroom

#### ENERGY TRANSITION

**Session Chairs:** Mongi Nairi & TBC

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<tr>
<td>08:30–09:00</td>
<td>Journey from National Oil Company to National Energy Company - Tunisia</td>
<td>H. Belghaji*, A. Khammassi</td>
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<tr>
<td>09:00–09:30</td>
<td>Coupling 3D Basin and Geomechanical Modeling for CO₂ Storage Capacity</td>
<td>L. Mattioni*, J. Armitage, D. Granjeon, A. Lengruber-Traby, A. Pujol, M. Boisson</td>
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<tr>
<td>09:30–10:00</td>
<td>Renewable Energy in Tunisia: Perspective and Strategy</td>
<td>H. El Kadh*, A. Ferchichi</td>
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<tr>
<td>10:00–10:30</td>
<td>Coffee Break &amp; Posters</td>
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<tr>
<td>12:00–13:30</td>
<td>Lunch</td>
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<tr>
<td>15:30–17:00</td>
<td>Data Management and Digital Transformation</td>
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#### Salambo Ballroom

#### ADVANCES IN GEOPHYSICS

**Session Chairs:** Jamila Fares & Kamel Ben Boubaker

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<tbody>
<tr>
<td>08:30–09:00</td>
<td>The Use of Artificial Intelligence for the Evaluation of Structural Controls on Reservoir Development and Well Placement</td>
<td>M. Sofield, H. Chine*</td>
</tr>
<tr>
<td>09:00–09:30</td>
<td>Detection of Hydrocarbons from Velocity Well Logs Using the Wavelet Coherence Analysis: A Case Study of Algerian Tight Reservoirs</td>
<td>S. Gaci*, M. Farfouir, S. Amoura, H. Boumediene</td>
</tr>
<tr>
<td>09:30–10:00</td>
<td>Northern Tunisian Offshore Subsurface Architecture and Structural Model from Geophysical Field Methods</td>
<td>H. Mouakhar*, A. B. Kahla, F. Ferhi, A. Bouloures, A. B. Ammar, D. B. Abdallah</td>
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<tr>
<td>10:00–10:30</td>
<td>Coffee Break &amp; Posters</td>
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### THE NORTH AFRICA ORDOVICIAN GLACIAL EVENT AND ITS IMPACT ON PLAY TYPES AND HYDROCARBON PROSPECTIVITY

**Session Chairs:** Hussein Abdallah & Salah Elekhfifi

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<tr>
<td>10:30–11:00</td>
<td>New Insight on the Glaciogenic Late Ordovician Play of North Africa Across a N-S Transect: Reservoir Development and Property Distribution from SW Libya to Tunisia</td>
<td>A. Moscariello*, M. Soussi</td>
</tr>
<tr>
<td>11:00-11:30</td>
<td>Recent Progress in the Characterization of Ordovician Glacial Reservoir in the Murzuq Basin, SW Libya</td>
<td>F. J. B. Torre, N. D. McDougall, A. Moscariello*</td>
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<td>12:00–13:30</td>
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### THE USE OF SPECIALIST EXPLORATION TECHNIQUES IN THE EVALUATION OF HYDROCARBON POTENTIAL

**Session Chairs:** Martin Jakubowski & Hakim Gabbni

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<td>Geothermal Assessment of the Northeastern Gulf of Gabes Based on New Borehole Temperature and Thermal Conductivity Corrections: Petroleum Generation Fallout</td>
<td>I. Mraidi*, A. Mabrouk El Asmi, A. Skanji, M. Saidi</td>
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<td>14:00–14:30</td>
<td>Delineate of Middle Devonian Ouenine F3 Sand by Using Petrophysical and Sedimentological Analysis In South Wafa Field, Ghadames Basin, Libya</td>
<td>M. A. Abduhaifid*, O. Hlal, I. Alosta, M. Targhi</td>
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<td>14:30–15:00</td>
<td>Facies Analysis and Sequence Stratigraphy of the Late Albian-Cenomanian Succession along the Jeffarah Escarpment, NW Libya</td>
<td>I. Y. Miheel*</td>
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POSTER PRESENTATIONS

HYDROCARBON PROVINCES IN MEDITERRANEAN & NORTH AFRICA

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<td>M. A Haman*, H. K Hamed</td>
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<td>Integrated Seismic Interpretation of Cenomanian Reef Buildups, Contribution of Seismic Attributes. Pelagian Basin, Offshore Tunisia</td>
<td>E. Melki*, M. W. Boudeega, A. Amiri</td>
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<td>Deep-Water Depositional Architecture to the Late Aptian Shift from Carbonate to Siliciclastic Deposition: Offshore Senegal, NW Africa</td>
<td>S. D. Coskun*, G. Calvès, J. Redfern</td>
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<td>Seismic Reflection Data: Identification of Reef Versus Volcanic Intrusion in the Tunisian Pelagian Platform During Cretaceous</td>
<td>N. Miloudi*, A. Hedfi, A. Bachellaoui</td>
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<td>Sidi El Kilani Oil Field from Kairouan Basin, Central Eastern Tunisia: Structural Evolution, Impact on Trap Formation and Reservoir Systems</td>
<td>F. Khemiri*, G. Laouini</td>
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<td>Depositional Environments and Structure Evolution of the Lower Akakus Formation, Area 47, North Hamada Field, Ghadames Basin, NW Libya</td>
<td>N. Fello*</td>
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<td>Source Rock Potential and Depositional Environment of Late Albain, Mouelha Member and their Relationship to Crude Oils and Oil Seeps Tunisia</td>
<td>A. B. Mohamed, I. Bouazizi*, F. Benhamdene, M. Saidi, M. V.</td>
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<td>Aptian Play Attributes in Pelagian Platform Basin, Central-East Tunisia</td>
<td>M. Harzali*, A. Guizani, H. Troudi</td>
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<td>Potential Giant Fields Still Exist in the Onshore Sirt Basin, Recent Nubian Discoveries as an Example</td>
<td>M. Baair*, A. Aziz</td>
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<td>Integrated Geophysical, Geological and Petrophysical Data to Study the Middle Devonian Aouinet Ouenine F3 Sand Reservoir in Al Wafa Field Ghadames Basin, North-West</td>
<td>M. A. Abduhafid*, M. S. Hrouda</td>
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<td>Integrated Study of Late Paleozoic to Mesozoic Stratigraphy, Tunisia</td>
<td>C. Tansell*, A. Nasiri, K. Wadkins, M. McConnell, G. Cantarella, R. McCabe, B. Fairey</td>
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SEDIMENTARY BASIN GEODYNAMICS

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<td>The Geodynamics of the Atlantic Sedimentary Basin</td>
<td>L. Cisse*</td>
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Shale Gas Sweet Spots of the Silurian Hot Shale in Ghadames Basin, North Africa

Unconventional Shale Resource System Characteristics of Albian Series in Northern Tunisia
R. Talbi*, D. R. Beti, R. Levey

Petrographic Evaluation of Oil Shales Existence through Wadi Ad Dharwa Area in the Eastern Part of Jordan
N. S. Almasalha*

SALT RELATED PLAYS

The Gulf of Gabes under the Effects of Salt Tectonics and Alpine Compressions
O. B. Abid*, J. A. Ouali, A. Mahroug, B. S. Nouali, A. Lafi

Structural Styles of Poly-phase Triassic Halokinetic and Thrust Tectonic in the Sahel Block: Implication on Hydrocarbon Prospectivity
A. Nasri*, F. El Ferhi, A. Boulares

ADVANCES IN GEOPHYSICS

Reservoir Characterization and Volumetric Assessment of the El Gueria Formation Using Seismic Attributes: Case Study of a Field from the Gulf of Gabes, Southeastern Tunisia
N. Kharbachi*, A. M. El Asmi, D. Bouthaina

Quantitative Interpretation of Clastic Reservoirs Applied to a Case Study in Tunisian South Chott Basin
O. Jedidi*, S. Ouahchi, A. Guizani

Hölderian Regularity-Based Seismic Attributes: A Case Study Taken from Algerian Field Data
S. Gaci*, M. Farfour

ADVANCES IN BOREHOLE INTEGRITY

BBT Field Development Optimization - The Use of High Performance (Polyamine) Water Base Mud for optimum Drilling Performance
A. Boubekri, J. Beltaief*, H. Tagougui, R. Ghali

Modeling and Evaluation of the Hydrocarbon Potential of the Meloussi Formation in the Southern Zone of the Gulf of Gabes -Tunisia
R. Znazen*

New Approach Used to Identify the Reservoir Potential and Fluid Contacts
T. Sabri Duzan*, A. M. Elfituri

Geo-Mechanical Well Bore Stability for Carbonate Reservoir, South-East Sirte Basin-libya (Case Study)
T. Sabri Duzan*, N. Radwan, H. Abulashnab

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MEDITERRANEAN AND NORTH AFRICAN
CONFERENCE AND EXHIBITION

PROVEN CRETACEOUS AND EOCENE PLAYS IN CENTRAL TUNISIA:
PETROLEUM SYSTEMS, STRUCTURAL STYLES AND TRAP TYPES

Field Trip Leaders: Habib Troudi, ETAP, Fares Khemiri, ETAP and Belhaj Med. Anis, ETAP

Dates: 15–17 September
Location: Tunisia
Itinerary: Tunis – Kairouan – El-Jem – Tunis
Fee: $950 (for 2 nights, staying in a hotel)

Registration for the field trip is now closed

Who Should Attend: Geologists, Geophysicists, Reservoir Geologists/Engineers

Field Trip Overview
This field trip is an overview of the proven cretaceous and eocene plays in the foreland of the Atlas System in the Central Tunisia (Pelagian Basin). In order to get a deep insight into the reservoirs facies and depositional systems, the impact of natural fracturing on reservoir behavior and the source rocks characterisation we are going to visit the spectacular outcrops along the NS axis ridge in central Tunisia. Core interpretations from wells will be compared with outcrops, and the trap types and genesis in relation with the tectonic style will be discussed with particular emphasis in salt tectonics.

We will focus on carbonate reservoirs of the Aptian Serdj, the Late Senonian Abiod and the Eocene Garia/Boudabbous Fms. Source rocks of the Bedoulian Sidi Hamada, the Albian Fahdène and the Early Turonian Bahloul Fms. will be investigated and the trap timing in relation to the charge will be discussed.

On the last day, we will visit the third largest oil field, the Sidi El Kilani oil field and then the Archaeological Museum of El-Jem.

Fees Include:
• Food and transportation from 15–17 September
• Accommodation for the nights of 15 and 16 September

Field Trip Leaders Bios

Habib Troudi is an experienced geoscientist with a demonstrated history of working in the oil and energy industry. Skilled in petroleum exploration & development, petroleum geology, and energy industry. Strong business development professional with a PhD focused in Petroleum Geology from Tunisia University. Has held several management positions at national and operating oil companies, the last two position were exploration geoscience Team Leader with OMV and Exploration Advisor with ETAP NOC Tunisia. Leading with international experts of many new venture projects in Middle East and North Africa basins. Author of more than 40 papers dealing with all exploration topics including tight gas and unconventional plays. Leader of numerous geological fieldtrips for the account of international oil companies and conferences.

Fares Khemiri has a Masters Degree in Geology from the Faculty of Sciences of Tunis. He has worked as contractual assistant professor in the Faculty of Sciences of Gafsa and then joined ETAP as an Exploration Geologist. Currently he is the Head of Regional Studies Department. He mentored young staff and students, organizer and leader of technical fieldtrips during Tunisian Exploration and Production Conferences (EPC) and author of numerous scientific papers.

Belhaj Med. Anis has extensive knowledge in geochemistry and holistic interpretation of the hydrocarbon charge component in conventional and unconventional petroleum systems. Head of ETAP Tunisia Geochemistry Lab. since 2010.
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EXHIBITOR LISTINGS

American Association of Petroleum Geologists (AAPG)
Aber Zubaidi
azubaidi@aapg.org
www.aapg.org

Since its founding in 1917, the American Association of Petroleum Geologists has been a pillar of the worldwide scientific community. The original purpose of AAPG, to foster scientific research, to advance the science of geology, to promote technology, and to inspire high professional conduct, still guides the Association today.

AAPG provides publications, conferences, and educational opportunities to geoscientists and disseminates the most current geological information available to the general public

AFIL
Fawaz Mourad
fawazmourad@gmail.com

AFIL is part of AFIL GROUP of companies, involved in the oil, gas and energy services and supplies as well as environmental remediation services with technology partners from Norway, U.K., USA, Tunisia, Lebanon, Cyprus and other countries.

AFIL has been active since 1996 in the upstream sector as well as in soil remediation, decontamination. AFIL Group are present through affiliated companies in Lebanon, Tunisia, Norway, U.K. and Cyprus

Compagnie Tunisienne de Forage (CTF)
Salem Arfaoui
s.arfaoui@ctf.com.tn
www.ctf-drilling.com.tn

The Tunisian Drilling Company, “CTF”, was created on October 1, 1981 with the aim of providing the energy sector in Tunisia with a national tool in the field of drilling and maintenance of oil wells.

The CTF has, since its creation, played a leading role in the development of oil exploration and development activities in Tunisia, thus becoming part of the country’s strategic choices in this area.

The CTF is committed to:

- Develop its means in Onshore or Offshore for drilling or workover.
- Acquire and master the advanced techniques of oil drilling.
- Comply with the requirements of the trade, particularly in terms of safety.
- Maintain and increase customer satisfaction through the presentation of a comprehensive service.

Thanks to this way of doing things, to its aggressive commercial policy, to its great mastery of modern drilling techniques and to the accumulated experience of its technicians, the CTF can consider itself today as a partner of choice for oil operators.

European Association of Geoscientists and Engineers (EAGE)
Raymond Cahill
rcl@eage.org
www.eage.org

EAGE is a multi-disciplinary association for geoscientists and engineers with a worldwide membership. Founded in 1951, it promotes the development and application, innovation, technical progress in geosciences and engineering. It provides a global network of commercial and academic professionals.

EAGE operates two divisions: the Oil & Gas Geoscience Division and the Near Surface Geoscience Division. EAGE has more than 19,000 members worldwide representing over 100 countries. All members of EAGE are professionally involved in (or studying) geophysics, petroleum exploration, geology, reservoir engineering, mining and mineral exploration, civil engineering, tunneling and environmental matters.

ETAP
El Kods El Chahtour
elchahtour.elkods@etap.com.tn
www.etap.com.tn

Tunisian National Oil Company » (ETAP), the national oil company, was created by Law no. 72-22 of 10th March 1972 in order to increase control and actively and directly participate in all hydrocarbons related operations.

INOVA
Kate Fisher
Kate.Fisher@inovageo.com
www.inovageo.com

INOVA Geophysical was formed in March 2010 when BGP Inc. and ION Geophysical Corporation each contributed land seismic equipment assets to a new and independent joint venture company. INOVA aspires to become THE land seismic technology company of the 21st century by developing rugged and reliable seismic instruments that enable geophysical service providers to efficiently design and execute complex seismic acquisition programs on behalf of their E&P customers around the world.

Perenco
Thouraya Ben Jazia; Clement Bouret
thengarga@tn.perenco.com; cbouret@tn.perenco.com
www.perenco.com

Perenco is Europe’s first independent oil and gas company, with a worldwide portfolio of assets resulting from a unique know-how in the operation of mature fields and from an ambitious acquisition strategy. Since Perenco was founded by Hubert Perrodo in 1975, the company has diversified to become the leading independent oil and gas company in Europe today. The company produces 490,000 boepd through its drilling, development and operations, thanks to its onshore and offshore presence in 14 countries.

AGIL S.A
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“AGIL, trade name of the National Compagny of Oil Distribution , is the country’s major downstream oil marketing and distribution operator. It control over than 37% of market shares of fuel and liquefied petroleum gas ( LPG)

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AGIL owns the largest storage capacity and markets bottled LPG, mainly for domestic use, LPG in bulk for industrial use as well as the LPG fuel in their service stations

Troika International
Jill Lewis
jill@troika-int.com; marting@troika-int.com
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