



AAPG EAGE

EUROPEAN  
ASSOCIATION OF  
GEOSCIENTISTS &  
ENGINEERS

# MEDINA

MEDITERRANEAN AND NORTH AFRICAN  
CONFERENCE AND EXHIBITION

12-14 SEPTEMBER 2022 • TUNIS, TUNISIA



[medinace.aapg.org](https://medinace.aapg.org)

**New Exploration Opportunities  
and Energy Resource Challenges**

HOSTED BY:



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المؤسسة التونسية للأنشطة البترولية

## Subsurface Exploration Opportunities and Energy Challenges Transition

ETAP

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# AAPG EAGE

EUROPEAN  
ASSOCIATION OF  
GEOSCIENTISTS &  
ENGINEERS

12–14 September 2022  
Tunis, Tunisia

## WELCOME LETTER

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*

12–14 September 2022  
Tunis, Tunisia  
[medinace.aapg.org](https://medinace.aapg.org)



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### TECHNICAL PROGRAM COMMITTEE



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(General Chair)  
ETAP



**Habib Troudi**  
(Technical Program Chair)  
ETAP



**Lounes Adour**  
Al Naft Algeria



**Noureddine Daoudi**  
Al Naft Algeria



**Jorge Navarro Comet**  
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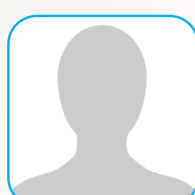
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ATOG



**Adedoja Rosamund Ojelabi**  
Chevron Nigeria  
(AAPG Africa Region  
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**Giovanni Bertotti**  
Delft University of  
Technology



**Abd El-Hamid Gewaily**  
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**Moncef Saidi**  
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**Mohamed Dakki**  
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**Hussein Abdallah**  
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**Fadi Nader**  
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**Pedro Baptista**  
Independent  
Consultant



**Stelios Nicolaides**  
Ministry of Energy,  
Commerce and  
Industry, Cyprus



**Rania Marzougui**  
Ministry of  
Energy, Mines and  
Renewables, Tunisia



**Salah S. El-Ekhfifi**  
NOC, Libya



**Chahine Bahri**  
OMV



**Giuseppe Cantarella**  
OMV



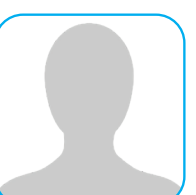
**Ahmed Dahech**  
Perenco Tunisie



**Jamila Fares**  
Perenco Tunisie



**K.B. Trivedi**  
PetroSA  
(AAPG Africa Region  
President Elect 2020–22)



**Hadjer Youcef Brahim**  
Schlumberger



**Chemsidine Sow Deina**  
SMHPL



**Moussa Barry**  
SMHPL



**Andrea Moscariello**  
University of Geneva



**Constantinos Hadjistassou**  
University of Nicosia



**DATES**

Conference	12 – 14 September
Exhibition	13 – 14 September

**Venue**

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

**Opening Hours**
**REGISTRATION DESK**

Monday, 12 September	09:00 – 18:30
Tuesday, 13 September	07:00 – 17:00
Wednesday, 14 September	07:00 – 15:30

**SPEAKER CHECK-IN ROOM**

Monday 12 September	09:00 – 18:30
Tuesday 13 September	07:00 – 17:00
Wednesday 14 September	07:00 – 15:30

**Registration**

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

Member*	\$775.00
Non Member	\$875.00
Speakers & Committee Members	\$650.00
Young Professionals Member*	\$150.00
Young Professionals Non Member	\$200.00
Student Member*	\$65.00
Student Non Member	\$85.00
AFRICAN NATIONAL Member*	\$395.00
AFRICAN NATIONAL Non Member	\$495.00
AFRICAN NATIONAL Speakers & Committee Members	\$300.00
AFRICAN NATIONAL Young Professionals Member*	\$150.00
AFRICAN NATIONAL Young Professionals Non Member	\$200.00
AFRICAN NATIONAL Student Member*	\$65.00
AFRICAN NATIONAL Student Non Member	\$85.00

*\* 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:

**COFFEE BREAK TIMES**

Monday 12 September	16:30 – 17:00
Tuesday 13 September	10:00 – 10:30 and 15:00 – 15:30
Wednesday 14 September	10:00 – 10:30 and 15:00 – 15:30

**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			
Carthage Ballroom			
17:00–18:30	Opening Ceremony		
Tuesday 13 September			
Carthage Ballroom		Salambo Ballroom	Eddyafa Meeting Room
08:30–10:00	Sedimentary Systems	Hydrocarbon Exploration and Exploitation in Tunisia	Salt Related Plays
10:00–10:30	Inauguration of Exhibition & Coffee Break		
10:30–12:00	<i>Countries Forum: Legal, Contracts and Costs – Panel Session</i>	East Mediterranean Hydrocarbon Potential	Advances in QHSE Processes and Monitoring
12:00–13:30	Lunch		
13:30–15:00	Basin Architecture of the Mediterranean	Well and Regional Data for Hydrocarbon Evaluation	
15:00–15:30	Coffee Break & Posters		
15:30–17:00	Regional Geological Models in the Evaluation of Hydrocarbon Prospectivity	Digital Transformation in the Oil and Gas Industry	
Wednesday 14 September			
Carthage Ballroom		Salambo Ballroom	
08:30–10:00	Energy Transition	Advances in Geophysics	
10:00–10:30	Coffee Break & Posters		
10:30–12:00	<i>Energy Transition in the North African and Mediterranean Regions – Panel Session</i>	The North Africa Ordovician Glacial Event and its Impact on Play Types and Hydrocarbon Prospectivity	
12:00–13:30	Lunch		
13:30–15:00	Under-Explored Basins in the Mediterranean Region and Unconventional Plays in North Africa	The Use of Specialist Exploration Techniques in the Evaluation of Hydrocarbon Potential	
15:00–15:30	Coffee Break & Posters		
15:30–17:00	<i>Data Management and Digital Transformation – Panel Session</i>	Unconventional Hydrocarbon Plays	



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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



**The North African  
Hydrocarbon Industry  
in the Wider African  
Perspective**

**Eric Schmid**  
Associated Director, S&P  
Global Commodity Insights



**The Role of the  
Mediterranean in Meeting  
Today's Energy Challenges**

Virtual Talk

**Tristan Aspray**  
Director, Frontier Exploration,  
ExxonMobil

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### PANEL SESSIONS

#### Countries Forum: Legal, Contracts, and Costs

Date: Tuesday 13 September

Time: 10:30–12:00

Venue: Carthage Ballroom

##### Moderator:



Rachid Ben Daly  
Energy Tunisia

##### Speakers:



Jamel el Kasbi  
Consultant



Walid El Fatmi  
ETAP



Hichem Mansour  
Tunisian Energy Society

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.
- A clear domestic energy strategy, action plan and regulatory framework that is adaptive to rapidly changing global conditions.
- 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 services for the exploration and development of resources.
- Continued control over the COVID pandemic through an effective vaccine roll out across the whole region.
- A balanced approach to energy reform and the transition to greener forms of energy supply.
- 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  
IFP Energies nouvelles



Eric Schmid  
S&P Global  
Commodity Insights



Jill Lewis  
Troika International

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 CO<sub>2</sub> 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 CO<sub>2</sub> 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.





## PANEL SESSIONS

### 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

#### Moderators:



Habib Troudi  
ETAP



Fadi Nader  
IFPEN

#### Speakers:



David Moreton  
ExxonMobil  
Virtual Talk



Ali Gaaya  
Hydrocarbon  
E&P International  
Consultancy



Hichem Mansour  
Tunisian Energy Society

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 250,000km<sup>2</sup>, Late Silurian Tannezuft and the Frasnian Aouinet Aouinine 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 Albian, Fahdene (3% TOC) and Early Turonian, Bahloul (6% TOC) Formations in the Tunisian Pelagian Basin. The Early Eocene (Cenozoic) Bou Dabbous 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 10MMm<sup>3</sup>/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.

### Data Management and Digital Transformation

Date: Wednesday 14 September

Time: 15:30–17:00

Venue: Carthage Ballroom

#### Moderator:



Markus Berghofer  
OMV

#### Speakers:



Amir Beshai  
Elsevier



Stijn van Puijvelde  
Elsevier  
Virtual Talk



Sylvain Le Tourneur  
Schlumberger



Jill Lewis  
Troika International

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 consumer (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.

### TECHNICAL PROGRAM – Tuesday, 13 September

Carthage Ballroom		
SEDIMENTARY SYSTEMS		
Session Chairs: Fadi Nader & Fares Khemiri'		
08:30–09:00	Some Insights from Hydrocarbon Exploration on the Geodynamics of the NE Mediterranean	L. Montadert*, S. Nicolaides, S. Arsenikos
09:00–09:30	Seismo-Stratigraphy of Deep Messinian Incisions in the North West Sector of the Sicily Channel and North East Tunisian Offshore	E. Meftah*, O. E. Eruteya, A. Moscariello
09:30–10:00	Source to Sink in Reservoir Prediction: Integrating Provenance Data and Machine Learning to Predict Reservoir Distribution	J. L. Kennedy*, J. Redfern, S. Schröder, J. Argent
10:00–10:30	Inauguration of Exhibition & Coffee Break	
PANEL SESSION		
10:30–12:00	Countries Forum: Legal, Contracts and Costs	
12:00–13:30	Lunch	
BASIN ARCHITECTURE OF THE MEDITERRANEAN		
Session Chairs: Pierre-Olivier Bruna & Ahmed Dahech		
13:30–14:00	Offshore Cyrenaica High Resolution Bathymetry Analysis: New Revelations using WWII Technology	A. Amer, S. El Ekhfifi*, K. Amrouni
14:00–14:30	Identifying Local vs. Regional Drainage Networks within the Moroccan Triassic: Implications for Reservoir Quality and Distribution within the Tag-i Play	J. L. Kennedy*, J. Redfern, S. Schröder
14:30–15:00	Post-Rift Exhumation, Subsidence and Sandstone Deposition along the Mauritania-Senegal Continental Margin	G. Bertotti, R. Charton*, M. Gouiza, J. Redfern
15:00–15:30	Coffee Break & Posters	
REGIONAL GEOLOGICAL MODELS IN THE EVALUATION OF HYDROCARBON PROSPECTIVITY		
Session Chairs: Ahmed Nasri & Mohamed Hedi Acheche		
15:30–16:00	Integrated Study of Late Palaeozoic to Mesozoic Stratigraphy, Tunisia	C. Tansell*, A. Nasiri, K. Wadkins, M. McConnell, G. Cantarella, R. McCabe, B. Fairey
16:00–16:30	A New Permo-Triassic Tectono-Sedimentary Model for Northern Africa: Challenging the Prevailing Models	P. O. Bruna*, R. Dixon, G. Bertotti, J. L. Kennedy, J. Redfern
16:30–17:00	Exploration Potential of the Cretaceous Play in Oudhreh Block, Pelagian Basin, Offshore Tunisia	W. Boudegga*, I B. Taher, F. Lansari
Salambo Ballroom		
HYDROCARBON EXPLORATION AND EXPLOITATION IN TUNISIA		
Session Chairs: Andrea Moscariello & TBC		
08:30–09:00	A New Insight on the Hydrocarbon Prospectivity of Northern Tunisia	H. Troudi*, A. Guizani, M. Harzali
09:00–09:30	Tectono-Sedimentary Evolution and Development of the Chotts Basin (Tunisia): A Multi-Disciplinary and Integrated Approach to Evaluate Hydrocarbon Prospectivity	A. Nasri*, J. English, S. Ouahchi, M. V. Rees, A. Guizani
09:30–10:00	Extending Field Life: A Case Study from the BBT Field, Tunisia	M. Jakubowski*, L. Fourati, H. Ghariani, H. Tagougui, M. Sofield, J. Curran, S. O'Brien
10:00–10:30	Inauguration of Exhibition & Coffee Break	
EAST MEDITERRANEAN HYDROCARBON POTENTIAL		
Session Chairs: Salah Elekhfifi & Giuseppe Cantarella		
10:30–11:00	Understanding the Evolution of Sedimentary Basins as Rock-Fluid Systems through Integrated Geological Modeling: The Case of the Levant Basin (East-Mediterranean Region)	F. H. Nader*
11:00–11.30	Carbonate Reservoirs of the Mediterranean: A Review and Classification	P. R. Shiner*, C. Ricci, G. Rusciadelli
11:30–12:00	Evolution of the Nile River Since 70 Ma: Implications on the Source-to-Sink Systems	I. Setiawan*, F. Guillocheau, C. Robin, J. Braun
12:00–13:30	Lunch	

Any changes made to the program after the 6th of September will not reflect on the brochure.





## TECHNICAL PROGRAM – Tuesday, 13 September

WELL AND REGIONAL DATA FOR HYDROCARBON EVALUATION		
<i>Session Chairs: Martin Jakubowski &amp; Salah Elekhfifi</i>		
13:30–14:00	Prediction Of S-Wave Velocity using Machine Learning Algorithms Combined with Empirical Mode Decomposition-Based Approaches	S. Gaci*, M. Farfour
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		
<i>Session Chairs: Jamila Fares &amp; TBC</i>		
15:30–16:00	Digital Transformation and Remote Operations in the Oil and Gas Industry, Nawara as Example	A. Hammouda*, N. Manojlovic
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*
<b>Eddyafa Meeting Room</b>		
SALT RELATED PLAYS		
<i>Session Chairs: Mohamed Hedi Acheche &amp; TBC</i>		
08:30–09:00	Constraining Salt Diapirs Rise Rates: New Insights from the Pelagian Platform (Northern Tunisia)	T. Cavailhes, S. Monstad, A. B. Khala*, R. Karpuz, N. Bang
09:00–09:30	The Role of Pre-Orogenic Faulting and Salt Diapirism on Atlassic 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		
<i>Session Chairs: Ali Gaaya &amp; Martin Jakubowski</i>		
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	

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### TECHNICAL PROGRAM – Wednesday, 14 September

Carthage Ballroom		
ENERGY TRANSITION		
Session Chairs: Mongi Nairi & TBC		
08:30–09:00	Journey from National Oil Company to National Energy Company - Tunisia	H. Belghaji*, A. Khammassi
09:00–09:30	Coupling 3D Basin and Geomechanical Modeling for CO <sub>2</sub> Storage Capacity Evaluation in Deep Saline Aquifers – Insights from the Paris Basin (France)	L. Mattioni*, J. Armitage, D. Granjeon, A. Lemgruber-Traby, A. Pujol, M. Boisson
09:30–10:00	Renewable Energy in Tunisia: Perspective and Strategy	H. El Kadhi*, A. Ferchichi
10:00–10:30	Coffee Break & Posters	
PANEL SESSIONS		
10:30–12:00	Energy Transition in the North African and Mediterranean Regions	
12:00–13:30	Lunch	
13:30–15:00	Under-Explored Basins in the Mediterranean Region and Unconventional Plays in North Africa	
15:00–15:30	Coffee Break & Posters	
15:30–17:00	Data Management and Digital Transformation	
Salambo Ballroom		
ADVANCES IN GEOPHYSICS		
Session Chairs: Jamila Fares & Kamel Ben Boubaker		
08:30–09:00	The Use of Artificial Intelligence for the Evaluation of Structural Controls on Reservoir Development and Well Placement	M. Sofield, H.Chine*
09:00–09:30	Detection of Hydrocarbons from Velocity Well Logs Using the Wavelet Coherence Analysis: A Case Study of Algerian Tight Reservoirs	S. Gaci*, M. Farfour, S. Amoura, H. Boumediene
09:30–10:00	Northern Tunisian Offshore Subsurface Architecture and Structural Model from Geophysical Field Methods	H. Mouakhar*, A. B. Kahla, F. Ferhi, A. Boulares, A. B. Ammar, D. B. Abdallah
10:00–10:30	Coffee Break & Posters	
THE NORTH AFRICA ORDOVICIAN GLACIAL EVENT AND ITS IMPACT ON PLAY TYPES AND HYDROCARBON PROSPECTIVITY		
Session Chairs: Hussein Abdallah & Salah Elekhfifi		
10:30- 11:00	New Insight on the Glaciogenic Late Ordovician Play of Nord Africa Across a N-S Transect: Reservoir Development and Property Distribution from SW Libya to Tunisia	A. Moscariello*, M. Soussi
11:00-11.30	Recent Progress in the Characterization of Ordovician Glacial Reservoir in the Murzuq Basin, SW Libya	F. J. B. Torre, N. D. McDougall, A. Moscariello*
11:30-12:00	Intimacy of Late Ordovician Glacial Valleys Sedimentary Infill Revealed: A Fully Integrated Subsurface Approach Applied on a SE Illizi Basin Dataset	S. Rousse*, J. Allard*, E. Bollore, T. Chrest, N. Lucet, L. Drab, B. Murat, M. Djidjeli, L. Adour
12:00-13:30	Lunch	
THE USE OF SPECIALIST EXPLORATION TECHNIQUES IN THE EVALUATION OF HYDROCARBON POTENTIAL		
Session Chairs: Martin Jakubowski & Hakim Gabtni		
13:30-14:00	Geothermal Assessment of the Northeastern Gulf of Gabes Based on New Borehole Temperature and Thermal Conductivity Corrections: Petroleum Generation Fallout	I. Mraidi*, A. Mabrouk El Asmi, A. Skanji, M. Saidi
14:00-14:30	Delinate of Middle Devonian Aouinet Ouenine F3 Sand by Using Petrophysical and Sedimetological Analysis In South Wafa Field, Ghadames Basin,Libya	M. A. Abduhafid*, O. Hlal, I. Alost, M. Targhi
14:30-15:00	Facies Analysis and Sequence Stratigraphy of the Late Albian-Cenomanian Succession along the Jeffarah Escarpment, NW Libya	I. Y. Mriheel*
15:00-15:30	Coffee Break & Posters	

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## UNCONVENTIONAL HYDROCARBON PLAYS

*Session Chairs: Habib Troudi & Moussa Barry*

15:30-16:00	Assessing the Potential of Unconventional Paleozoic Resources in the Algerian Saharan Basins: From Exploration to the Characterization of "Sweet Spots"	B. Murat, E. Perfetti, S. Rousse*, J. Allard, France; M. Djidjeli, L. Adour
16:00-16:30	In-Field Exploration: Identify an Overlooked Potential Reservoir (Diyab Fm.) in the Sarb Field, Abu Dhabi Offshore, Using Regional Geologic and Newly Processed Reflection Seismic Data	G. Cantarella*, F. H. I. Sing, M. Mnassri, L. Seiffert
16:30-17:00	Shale Oil Potential of the Upper Silurian Fegaguira Formation, Chotts Basin, Tunisia	M. A. Belhadj*, M. Soussi, M. Saidi, D. M. Jarvie

## POSTER PRESENTATIONS

### HYDROCARBON PROVINCES IN MEDITERRANEAN & NORTH AFRICA

Poster Title	Authors
A Palinspastic Reconstruction of Southern Tunisia: Multiphase Tethyan Rifting, Paleogeographic Inheritance and Petroleum Systems	A. Zaafouri*, M. A. Ghanmi, D. Mahmoudi, S. Haddad, H. Gabtni, B. Miled, S. Tlig
Petroleum Basin Modeling of the Middle Jurassic Series in Central Tunisia, Ali Ben Khalifa Area: Burial History, Thermal Maturity and Timing of Generation	S. Kraouia*, A. M. El Asmi, M. Saidi
Hydrocarbon Potentiality of the Upper Campanian G1-71 Reservoir in Beda Platform, Concession 71, South-Central Sirt Basin, Libya	M. A. Haman*, H. K. Hamed
Integrated Seismic Interpretation of Cenomanian Reef Buildups, Contribution of Seismic Attributes. Pelagian Basin, Offshore Tunisia	E. Melki*, M. W. Boudegga, A. Amiri
Deep-Water Depositional Architecture to the Late Aptian Shift from Carbonate to Siliciclastic Deposition: Offshore Senegal, NW Africa	S. D. Coskun*, G. Calvés, J. Redfern
An Integrated Geological and Geophysical Approach to Predict the Reservoir Characteristics of the Silurian in the Shalbia-1 Exploration Well, Tunisia, Ghadames Basin	W. Alouani*, N. Ayari, D. Kebaier, A. Saadi, M. Bierbaumer, M. A. Bounasri, A. H. Ben Salem
CarbMed GIS: A GIS Project for the Petroleum Geology of Mediterranean Carbonates	C. Ricci*, G. Rusciadelli, P. R. Shiner
Seismic Reflection Data: Identification of Reef Versus Volcanic Intrusion in the Tunisian Pelagian Platform During Cretaceous	N. Miloudi*, A. Hedfi, A. Bachellaoui
Exploration in the North African Triassic Plays	S. Nassif, C. Ruchonnet, E. Schmid*, J. G. Fischer
Sidi El Kilani Oil Field from Kairouan Basin, Central Eastern Tunisia: Structural Evolution, Impact on Trap Formation and Reservoir Development	F. Khemiri*, G. Laouini
Depositional Environments and Structure Evolution of the Lower Akakus Formation, Area 47, North Hamada Field, Ghadames Basin, NW Libya	N. Fello*
Source Rock Potential and Depositional Environment of Late Albian, Mouelha Member and their Relationship to Crude Oils and Oil Seeps Tunisia	A. B. Mohamed, I. Bouazizi*, F. Benhamdene, M. Saidi, M. V.
Aptian Play Attributes in Pelagian Platform Basin, Central-East Tunisia	M. Harzali*, A. Guizani, H. Troudi
Potential Giant Fields Still Exist in the Onshore Sirt Basin, Recent Nubian Discoveries as an Example	M. Baair*, A. Aziz
Integrated Geophysical, Geological and Petrophysical Data to Study the Middle Devonian Aouinet Ouenine F3 Sand Reservoir in Al Wafa Field Ghadames Basin, North-West	M. A. Abduhafid*, M. S. Hrouda
Integrated Study of Late Palaeozoic to Mesozoic Stratigraphy, Tunisia	C. Tansell*, A. Nasiri, K. Wadkins, M. McConnell, G. Cantarella, R. McCabe, B. Fairey

### SEDIMENTARY BASIN GEODYNAMICS

The Geodynamics of the Atlantic Sedimentary Basin	L. Cisse*
Architecture and Kinematics of the Talemzane Arch, North Africa	R. Charton*, P. Olivier, R. Dixon, J. L. Kennedy, L. Bulotifremer, G. Bertotti, J. Redfern

## UNCONVENTIONAL HYDROCARBON PLAYS

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### POSTER PRESENTATIONS *(continued)*

Shale Gas Sweet Spots of the Silurian Hot Shale in Ghadames Basin, North Africa	K. Albriki*, F. Wang, M. Li, R. El Zaroug, A. Ali, G. Aliyeva, M. Abioui, M. Samba, M. Hassan
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*
<b>SALT RELATED PLAYS</b>	
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
<b>ADVANCES IN GEOPHYSICS</b>	
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
<b>ADVANCES IN BOREHOLE INTEGRITY</b>	
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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### Field Trip

#### 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 Fahdene 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

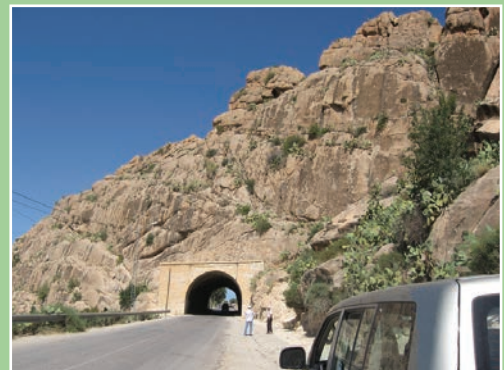
**Habib Troudi** is an experienced geoscientist with a demonstrated history of working in the oil and energy industry. Skilled in petroleum exploration & development, petroleum geology, and energy industry. Strong business development professional with a PhD focused in Petroleum Geology from Tunisia 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)

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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  
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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  
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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

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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..

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#### Troika International

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