Second EAGE Eastern Mediterranean Workshop

19-21 November 2019 • Athens, Greece

- Workshop Brochure | Programme
TECHNICAL COMMITTEE

Verity Agar  ION
George Apostolopoulos  NTUA
Yannis Bassias  Hellenic Hydrocarbon Resources Management (HHRM)
Nick Bernitsas  ION
Alex Cooke  WesternGeco-Schlumberger
Benoit Didier  Total
Andreas Georgakopoulos  Aristotle University Thessaloniki
Clement Hardy  ExxonMobil
Caroline Jane Lowrey*  Spirit Energy
Angelos Mavromatidis  ADNOC
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Juan Soto  University of Granada
Sofia Stamataki*  NTUA
Claudio Turrini  Hellenic Petroleum
John Underhill*  Heriot-Watt University
Kevin Shrimpton  PGS
Bjorn Wygrala  Schlumberger

* Co-chairs

ABOUT THE WORKSHOP

Exploration in the Eastern Mediterranean has been reinitiated by important gas discoveries during the last decade and with offshore finds in Egypt, Cyprus and the Levant Basin the area is now considered a highly prospective petroleum province.

The regions’ complex geodynamic history has seen it evolve from two Tethyan passive continental margins to one dominated by Alpine collision and neotectonic subduction-accrretion along its northern flank.

The rifting initiated in the Permo-Triassic continued through the Mesozoic and was characterized by the development of a mixed siliciclastic-carbonate platform attached to the African, Arabian and Eurasian plates as well as the formation of isolated carbonate outer-high platforms located on continental blocks (e.g., Eratosthenes, Ionian Sea and around Apulia). The subsequent influx of siliciclastic sediments due to the tilting of the Afro-Arabian shoulders and the initiation of Cenozoic fold-and-thrust systems during the late Oligocene to early Miocene formed younger reservoirs. Subsequent marine isolation and evaporation led to the Messinian Salinity Crisis before the rejuvenation of clastic systems were in the Late Neogene in response to northward drainage off the African continent (Nile Delta), continued collision and a neotectonic overlay.

Aiming to unlock hydrocarbon deposits below the Messinian salt layer, industry experts are keen to conduct ambitious geological and geophysical exploration and drilling in these ultradeep waters. This will require further geological understanding and the investigation of geophysical solutions to the challenges of complex salt bodies and salt-carbonate systems. In addition, there are significant drilling and safety issues related to rock mechanics and reservoir properties in the Eastern Mediterranean.

AIMS OF THIS WORKSHOP

This workshop aims to develop our understanding of the complex regional geology, how we can use state of the art geophysics to visualize it and modern techniques to drill with maximum safety and consideration for the environment. With this intention, the workshop will bring together and integrate the experience of geoscientists drawn from industry, government bodies and academia and promote discussion and interchange between scientists and explorers interested in extending the potential of the Eastern Mediterranean.

TECHNICAL PROGRAMME

Oral Presentations | Tuesday 19 November

APHRODITE ROOM

Opening Session

08:15  Keynote 1 - Host Country’s Welcome - Y. Bassias
1  HHRM

08:25  Keynote 2 - Petroleum Exploration Activity in Greece - G. Gingerioiu
2  Hellenic Petroleum

Regional Geology I

J.J. Soto (University of Granada), J.R. Underhill (Heriot-Watt University)

08:45  Keynote 3 - E. Barrier
1  iSteP

09:15  Tu EM 01 - The Architecture of the Eastern Mediterranean and Implications for Play Potential, Tying the Marginal Basins Together - P. Bellingham 2 *, L. Fullarton 1, E. Gillbard 2, V. Agar 1, N. Hurst 2, B. Horn 1, K. McDermott 1
1 ION

09:35  Tu EM 02 - Triassic Evaporites On- and Offshore Western Greece and their Significance in Hydrocarbon Exploration - J. Makris 2 *, J. Papoulia 2
2 University of Hamburg; 2 Hellenic Centre for Marine Research

09:55  Discussion

10:10  Coffee Break

Regional Geology II

J.J. Soto (University of Granada), J.R. Underhill (Heriot-Watt University)

10:30  Keynote 4 - M. Hamilton
1  PGS

11:00  Tu EM 03 - Forward Stratigraphic Modeling of a Restored Cross Section from Apulia to Gavrovo - C. Pellian 2 *, P. Hernandez Jimenez 2 *, R. Perez Martin 1, B. Rubio de las Alas - Pumaritius 2, A. Chambers 1
2 Repsol SA; 1 Repsol Exploracion

11:20  Tu EM 04 - Integration of Potential Methods and Surface Data for the Construction of a Structural Section in Aitolokarnania - P. Hernandez Jimenez 2 *, J.M. Jimenez 1, M. Zanzi 1, Y. Malmcrona 1, R. Perez 1, J.P. Pita 1, L. Cascone 1, B. Rubio 1, A. Ponte 1, P. Konstantopoulos 2, K. Nikolaou 2, A. Chambers 1
2 Repsol Exploracion; 1 Enigean Oil & Gas

11:40  Tu EM 05 - Deformation Patterns of a Mesozoic Carbonate Platform Offshore South of Crete - K. Oikonomopoulos 1, M. Hamilton 2
2 Hellenic Hydrocarbon Resources Management S.A. (HHRM S.A.); 1 PGS

12:00  Discussion

12:30  Lunch Break
SECOND EAGE EASTERN MEDITERRANEAN WORKSHOP

Leveraging on Seismic Imaging I
V. Agar (ION), J. Panizzardi (Eni S.p.A. – Upstream and Technical Services)

12:30 Keynote 5 - N. Bemitas*  
ION

14:00 Tu EM 06 - Appraising a Mediterranean Giant Discovery in Pre-Salt Carbonates: the Key Value of Depth Imaging - A. Lomartire**, R. Bacenetti†, B. Webb†, M. Corciulo‡, J. Panizzardi‡, M. Cell‡, R. Ruspi†  
‘Eni Upstream and Technical Services

14:20 Tu EM 07 - Advantages of the Use of Drones in a Complex Onshore Seismic Project in Greece - G. Ucampa Botero*, A. Islamov, I. Garcia Saiz*, D. Lara  
‘Repool

14:40 Coffee Break

Leveraging on Seismic Imaging II
V. Agar (ION), J. Panizzardi (Eni S.p.A. – Upstream and Technical Services)

15:00 Keynote 6 - K. Rodriguez*  
1 TGS

1 Schlumberger; 2BP

15:50 Tu EM 09 - Seismic Pitfalls Related to Converted Waves - Lebanon Offshore Case Study - P. Bourguignon*, P. Christian  
1 Total E&P

16:10 Tu EM 10 - DNNS in Automatic Salt Identification: How Effective Are They, and How Do We Rank their Performance? - D. Okonomou**, G. Sterfos†, T. Papadopoulos†, C. Januwattanasakul*, S. Purves†, E. Larsen*  
1 Earth Science Analytics AS

16:30 Discussion

19:00 Workshop Dinner

22:00 End of Workshop Day 1

Oral Presentations | Wednesday 20 November

APHRODITE ROOM

Petroleum Systems & Role of Evaporites I
B. Didier (Total), B. Wygrala (Schlumberger)

08:35 Keynote 7 - The Messinian Salinity Crisis - C. Gorini*  
1 University Pierre and Marie Curie (UPMC)

09:05 We EM 01 - South of Malta – Integrating Well Data and Seismic Allows to Better Understand the Petroleum Potential - O. Schenk*, O. Shtukert†, F. Winter†, A. Checconi†  
1 WesternGeco; 2TGS

09:25 We EM 02 - The Zohr Biogenic Gas Discovery: an Initial Assessment of Controlling Factors in the Petroleum System - M. Neumaier*†, A. Bartha†, B. Wygrala†  
1 Schlumberger; 2Uccon Consulting

09:45 We EM 03 - The Leviathan Field - Nine Years Since Discovery and Nearing First Gas - K. Karz***, Y. Gellman†, D. Shtrit†, J. Steinberg†  
1 Delek Drilling; 2Ratio Oil Exploration

10:05 We EM 04 - Structural and Gravimetric-Magnetic Modeling to Support Sub-Salt Plays in Western Greece: the Patraikos Gulf Case Study - L. Gagala*, N. Lykakis*, A. Abdelhamid*, I. Fahmi†, S. Solipropoulos†, A. Pagoulatos†, C. Tuniri†  
1 Hellenic Petroleum; 2Hellenic Petroleum former employee

10:25 Discussion

10:40 Coffee Break

Petroleum Systems & Role of Evaporites II
B. Didier (Total), B. Wygrala (Schlumberger)

11:00 We EM 05 - The Impact of Neogene Thermal Blanket to the Maturation of Mesozoic Source Rocks, W. Greece - I. Okonomopoulou**, N. Lykakis*, S. Sotropoulos†  
1 Hellenic Petroleum S.A.

11:20 We EM 06 - Hydrocarbon Exploration Risk Assessment in Structurally Complex Areas. Examples from Western Greece - M. Marin*, B. Wygrala, E. Mavridou  
2 Schlumberger

11:40 We EM 07 - Identifying Organic-Rich Intervals Sourcing the Pliocene-Quaternary Yafco Petroleum System Biogenic Gas in the Levant Basin - A. Meilijson**, Y. Makovsky†, M. Lazar†, N.D. Waldmann*  
1 University Of Haifa

12:00 Discussion

12:30 Lunch Break

Exploration Opportunities I
C. Hardy (ExxonMobil), K. Shrimpton (PGS)

13:30 We EM 08 - The Carbonate Platforms of Neotethys: a Comparison Study between Apulia and Eratosthenes Platforms - V. Kosmidou*, N. Papadimitriou†  
1 Hellenic Hydrocarbon Resources Management (HHRM)

13:50 We EM 09 - Residual and Commercial Gas Discrimination by Spectral Decomposition Using Ultra-Far Stacked Seismic Data, Nile Delta, Egypt - W. Fathy†, A. Shams†  
1 Heriot Watt University

14:10 We EM 10 - Open Questions and New Frontiers for Exploration in the Deep-Water Domain of the Levant Basin - Y. Ben-Gai**, J.I. Soto†  
1 Oil and Gas Exploration Consultant; 2Department of Geodynamics, University of Granada

14:30 Coffee Break

Exploration Opportunities II
C. Hardy (ExxonMobil), K. Shrimpton (PGS)

14:50 Keynote 8 - C. Tichatschke*  
1 Total

15:20 Keynote 9 - C. Tuniri**  
2 Hellenic Petroleum Exploration & Production of Hydrocarbons S.A.

15:50 Keynote 10 - S. Moore†  
2 Energean

16:20 Discussion

17:20 Wrap-up Discussion

17:30 End of Workshop Day 2

FIELD TRIP

Anatomy of the West Part of the Gulf of Corinth: Active processes over the last 4 Ma.

Field Trip Guides: I. Koukouvelas & V. Zygouri  
(University of Patras)

Date: Thursday 21 September 2019

The third and final day of the workshop will be a field trip to the Gulf of Corinth where delegates will explore the Helike fault and ottoman bridge, the Doumena fault and the Kerpini fault. Detailed information can be found on the workshop website.
SPONSORING

The Second EAGE Eastern Mediterranean Workshop offers excellent sponsoring opportunities to create high visibility for your brand. For more information about sponsoring, please refer to the ‘Sponsor Guide’ that is available on the event website (via events.eage.org) or contact us via eage.events@eage.org.

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Lunch Sponsor

CONTACT

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VENUE

St George Lycabettus Hotel
2 Kleomenous Street
106 75 Athens, Greece

REGISTRATION FEES

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All fees are in Euros (€). One Euro of your total registration fee is donated to the EAGE Green Fund.
Please note: The deadlines are following the Local Time in the Netherlands.
EAGE reserves the right to cancel the event due to low participation.

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IMPORTANT DATES

Registration is now open!

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<td>Late Registration Deadline</td>
<td>11 November 2019</td>
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<td>Eastern Mediterranean Workshop</td>
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