EAGE

EUROPEAN
ASSOCIATION OF
GEOSCIENTISTS &
ENGINEERS

Sixth EAGE Rock Physics Workshop

IMPACTS & TRENDS OF THE DIGITAL TRANSFORMATION

15-17 NOVEMBER 2022 • RIYADH, SAUDI ARABIA

- **First Announcement & Call for Abstracts**

WWW.EAGE.ORG

WORKSHOP OVERVIEW

The vital role of Rock Physics in understanding the reservoir is only getting bigger with the continuous and rapid advancements in Artificial Intelligence and Machine Learning. The ever-growing computation power and algorithms allow for easier integration of big data in geology and geophysics, resulting in far better understanding of reservoir quality and characteristics, and an ever more solid foundation for all Rock Physics models. The conventional methods act as the cornerstone of these foundations and allow deep learning networks to build on them, while also utilizing all imaging and inversion techniques to provide all available types of information and data to these networks.

This latest workshop will focus heavily on the developments of machine learning and deep learning in Rock Physics, and how we can match the similar improvements we see in seismic imaging. While the focus is on artificial intelligence, conventional Rock Physics models play an even more important role as the base for the deep learning models. These conventional models and all advancements to them will also be discussed in this workshop.

TOPICS

Data Conditioning & Feasibility
- Seismic & Well Data Conditioning for Rock physics and QI
- Rock physics & AVO feasibility
- Seismic Petrophysics

Applied Rock Physics
- Joint AVA inversion
- Pore pressure prediction
- Geomechanics
- 4D reservoir monitoring
- Quantitative seismic interpretation
- Uncertainty quantification
- Multiphysics Integration including Non-seismic
- Unconventional Rock Physics

Laboratory Rock physics
- Digital Rock Physics
- Experimental Rock physics

Theoretical Rock Physics

Digital Transformation
- Rock physics data libraries and management
- Rock physics AI/ML analysis

Energy Transition / Renewable Energy
- Rock physics for environmental application
- Energy storage
- Carbon Capture Utilization & Storage (CCUS)
- Geothermal
- Hydrogen

TECHNICAL COMMITTEE

Aiman Bakhorji (Co-Chair)	Saudi Aramco
Mukarram Ahmed	Saudi Aramco
Simon Payne	IKONScience
Alexander Rozhko	Equinor
Said Busaidi	PDO
Ammar ElHusseiny	KFUPM
Wael Abdallah	Schlumberger
Khalid Obaid	ADNOC
Beth Rees	GeoSoftware

IMPORTANT DATES

Call for Abstracts Open	1 March 2022
Call for Abstracts Close	15 May 2022
Technical Programme Available	15 June 2022
Registration Open	1 July 2022
Workshop	15-17 November 2022

SPONSORSHIP

To view the full range of sponsorship opportunities available at the Sixth EAGE Rock Physics Workshop, visit the workshop website by scanning the QR code:

CONTACT

For more information on the workshop, please get in touch with the EAGE MEA team via middle_east@eage.org or +971 4 369 3897.

See you in Riyadh!

www.eage.org

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