EAGE

EUROPEAN ASSOCIATION OF GEOSCIENTISTS & ENGINEERS

Eighth EAGE Borehole Geophysics Workshop

ADVANCED SOLUTIONS FOR SUSTAINABLE ENERGY

29 SEPTEMBER - 1 OCTOBER 2025 • AL KHOBAR, SAUDI ARABIA

- **First Announcement**

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OVERVIEW

For decades, borehole geophysics measurements have been instrumental in the oil and gas industry, aiding geoscientists in critical tasks such as precise well-to-seismic correlations, refining velocity models for seismic analysis, supporting drilling activities, and monitoring reservoir behaviour.

Amidst the global push towards sustainable, green energy solutions, there's a growing imperative to quantify and reduce uncertainty in reservoir monitoring. This imperative extends beyond traditional oil and gas applications to encompass diverse sectors like geotechnical studies, geothermal exploration, and carbon capture, utilization, and storage (CCUS).

The emergence of cost-effective fibre optics technologies, including distributed acoustic sensing and next generation 4C optical point sensors, has revolutionized long-term downhole monitoring projects. Simultaneously, significant advancements in surface seismic acquisition utilizing nodes and distributed acoustic sensing have occurred, allowing for simultaneous recording of many surveys both at the surface and downhole. The increasing synergy between surface and downhole monitoring technologies enhances their attractiveness for reservoir imaging and monitoring endeavours in the realm of green energy initiatives.

TOPICS

1. Borehole data acquisition and greener operations
- Efficiency in data acquisition, lower carbon footprint
- Environmentally friendly sources and downhole sensors

2. Conventional VSP applications and robust well ties
- DAS and 3C Sensors VSP applications, including imaging, multiples, Q(z), etc.
- Seismic while drilling, VSP lookahead and drilling operations

3. Time-lapse VSP monitoring
- CCUS
- Geothermal
- Oil and gas exploration and development

4. AVO, Anisotropy and Inversion
- modeling vs insitu measurements
- Quantitative analysis and reducing uncertainty

5. Microseismic Monitoring and Passive Seismic
- Caprock Integrity
- Thermally Induced Fracturing
- Injection Induced Fracturing

6. Bridging the scale gap of acoustic measurements
- From ultrasonic, sonic, VSP to surface seismic scales
- Deep sonic imaging
- Joint velocity model calibration

7. Handling of Big Data
- Big Data Integration (in particular DAS)
- Local vs. Cloud Computing
- Automated solutions

SPONSORSHIP

To view the full range of sponsorship opportunities available at the Eighth EAGE Borehole Geophysics Workshop, please get in touch at ssu@eage.org.

CONTACT

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Call for Abstracts is now open!