

The background of the top half of the page is a photograph of an oil rig at sunset, overlaid with a blue digital network pattern of nodes and lines. The EAGE logo is in the top left corner.

EAGE

EUROPEAN
ASSOCIATION OF
GEOSCIENTISTS &
ENGINEERS

Seventh Borehole Geophysics Workshop

TECHNOLOGIES FOR SECURING A RELIABLE AND VARIED ENERGY SUPPLY

18-20 SEPTEMBER 2023 • MILAN, ITALY

- **First Announcement**

WWW.EAGE.ORG

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WORKSHOP OVERVIEW

Borehole geophysics measurements have been used for decades in the oil and gas industry to assist geoscientists in key applications, including accurate well-to-seismic ties, velocity model calibration for seismic processing and

interpretation, drilling assistance and reservoir monitoring. As the world moves to cleaner, renewable energy, industry is looking for more cost-effective solutions to monitor reservoirs in a growing number of oil and gas field scenarios, but particularly in sectors outside the oil and gas industry, such as CO₂ sequestration, gas storage including hydrogen, radioactive waste disposal or geothermal energy.

The advent of affordable fiber optics technologies, including distributed acoustic sensing and some new generation 4C optical point sensors, has been a key factor in enabling more long-term downhole monitoring projects. In parallel, significant developments have taken place in surface seismic acquisition using nodes and DAS sensing, with many surveys being recorded simultaneously downhole. The multiple synergies between surface and downhole monitoring technologies make them increasingly attractive for reservoir imaging and monitoring projects.

The EAGE plays a vital role in promoting technology and knowledge dissemination and we are confident that the 7th edition of Borehole Geophysics workshop, which will be held in conjunction with the Seabed Seismic workshop, will be very rewarding for all participants to keep abreast of rapidly evolving technologies. The EAGE Borehole Geophysics workshop brings together geoscientists from operating companies, contractors, equipment suppliers, academics and anyone interested in promoting and celebrating borehole geophysics in all its forms. It will allow delegates to present their latest technologies in the form of oral and poster presentations, and will provide a valuable forum for networking with key individuals and organizations in this field.



SUBMIT YOUR ABSTRACTS
BEFORE **15TH MARCH 2023**



The committee will be inviting technical submissions for oral and poster presentations of case studies on a wide range of topics, including but not limited to:

1. Borehole data acquisition and greener operations:

- i. Efficiency in data acquisition, lower carbon footprint
- ii. Environmentally friendly sources and downhole sensors

2. Conventional VSP applications and robust well ties

- i. DAS and 3C Sensors VSP applications, including imaging, multiples, Q(z), etc.
- ii. Seismic while drilling, VSP lookahead and drilling operations

3. Time-lapse VSP monitoring

- i. Oil & Gas, geothermal, CCUS, gas and hydrogen storage, etc.

4. AVO, Anisotropy and Inversion

- i. Modelling vs insitu measurements (Sonic and VSP)

5. Microseismic Monitoring and Passive Seismic

- i. Caprock Integrity
- ii. Thermally Induced Fracturing
- iii. Injection Induced Fracturing

6. Bridging the scale gap of acoustic measurements

- i. From ultrasonic, sonic, VSP to surface seismic scales
- ii. Deep sonic imaging
- iii. Joint velocity model calibration

7. Handling of Big Data

- i. Big Data Integration (in particular DAS)
- ii. Local vs. Cloud Computing
- iii. Automated solutions

Call for Abstracts is open until 15 March 2023, and interested parties are encouraged to submit abstracts in the standard EAGE format of 2-4 pages.

The format used previously has been very successful and will be broadly repeated for this edition: a keynote speech on each of the three days, followed by technical presentations, grouped by topic, of 20 minutes each, plus questions, with sufficient time for panel discussion after each session. These panel discussions are an essential part of the proceedings, allowing comments and discussions on broader issues, and allowing time to capture the consensus of opinion among delegates.

TOPICS

The technical committee welcomes submissions of extended abstracts of 2-4 pages in line with the workshop subtheme **Technologies for securing a reliable and varied energy supply**. The deadline to submit abstracts is **15/03/23**. Please see the topics below as a guide to submit your abstract:

- Borehole data acquisition and greener operations:
- Conventional VSP applications and robust well ties
- Time-lapse VSP monitoring
- AVO, Anisotropy and Inversion
- Microseismic Monitoring and Passive Seismic
- Bridging the scale gap of acoustic measurements
- Handling of Big Data

IMPORTANT DATES

Call for Abstracts Open	25/10/2022
Registration Open	01/06/2023
Call for Abstracts Close	15/03/2023
Technical Programme Ready	1/05/2023

SPONSORING

Sponsorship packages for all budgets are available for this event, please write to us on middle_east@eage.org OR scs@eage.org to learn about potential sponsoring opportunities.



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