EAGE

EUROPEAN ASSOCIATION OF GEOSCIENTISTS & ENGINEERS

# Fifth EAGE Workshop on Borehole Geophysics

## BRIDGING THE GAP BETWEEN SURFACE AND RESERVOIR

18-20 NOVEMBER 2019 • THE HAGUE, NETHERLANDS

- **First Announcement**

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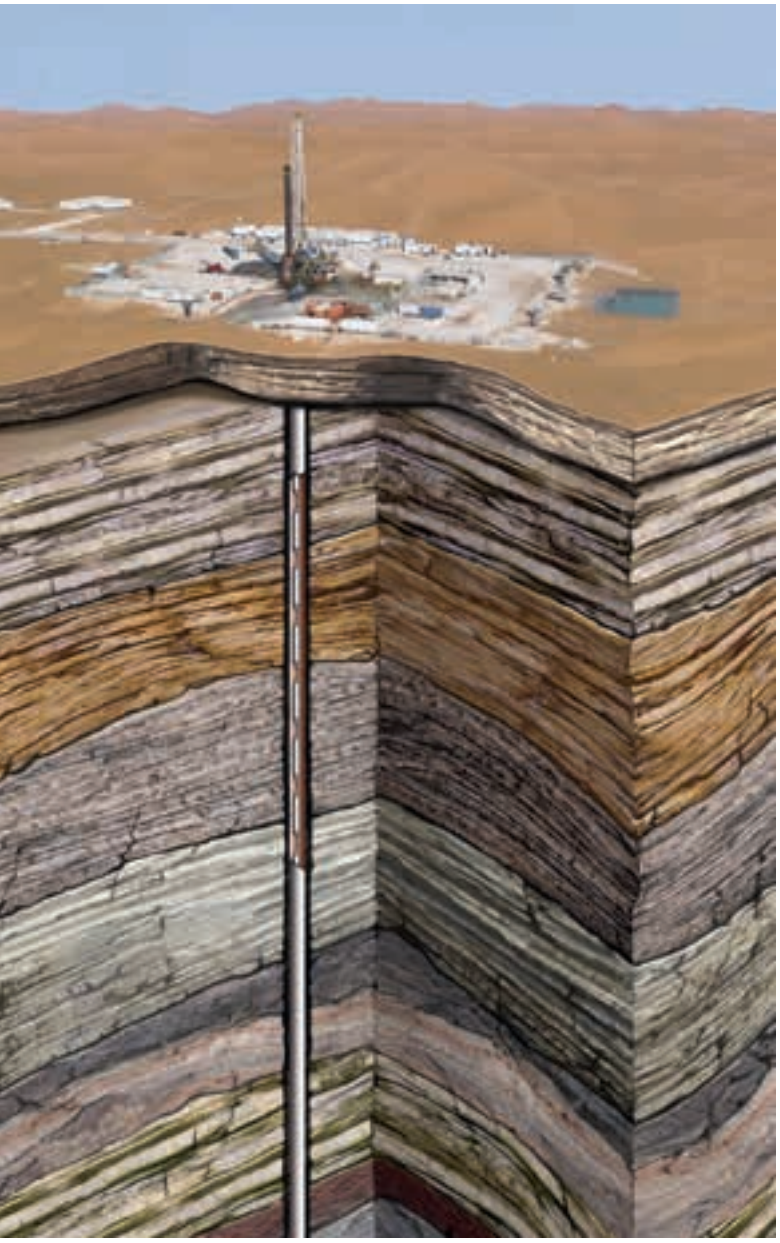


## WORKSHOP OVERVIEW

Despite the challenging circumstances the industry has experienced in the past few years, the support and interest in the EAGE Borehole Geophysics workshops have not only remained strong but broke a record in the number of delegates at the fourth workshop held in Abu Dhabi in 2017. This continued success has persuaded the technical committee of the workshop to plan and prepare the program and venue for the fifth in the series to be held 18-20 November 2019 in The Hague, Netherlands.

In previous workshops, the quality of the technical submissions has been excellent with representation from a wide cross-section of the industry from around the world; operators, consultants, contractors, and academics. For this fifth workshop, we anticipate using the same proven formula by providing a forum for professionals interested in borehole geophysics to share latest research findings, case studies, successes and lessons learned, all built around a technical program of oral papers and posters.

Borehole geophysics is a key component in linking surface measurements with the reservoir; data acquired in the well provide high resolution geological and geomechanical measurements vital to validate and constrain the processing of surface data (e.g. surface seismic) used across the field. Although the technical program may have a principal focus on acquisition and processing of borehole seismic data (Vertical Seismic Profiles), this workshop will be open to discussion of a wider range of geophysical techniques that utilize gravity, electromagnetic (EM), and microseismic surveys, to name but a few. This workshop also welcomes discussions on advances in borehole geophysical data processing, including Full Waveform Inversion and Artificial Intelligence, and solutions enabled by data analytics and cloud computing.

### The workshop will be divided into four distinct sessions:

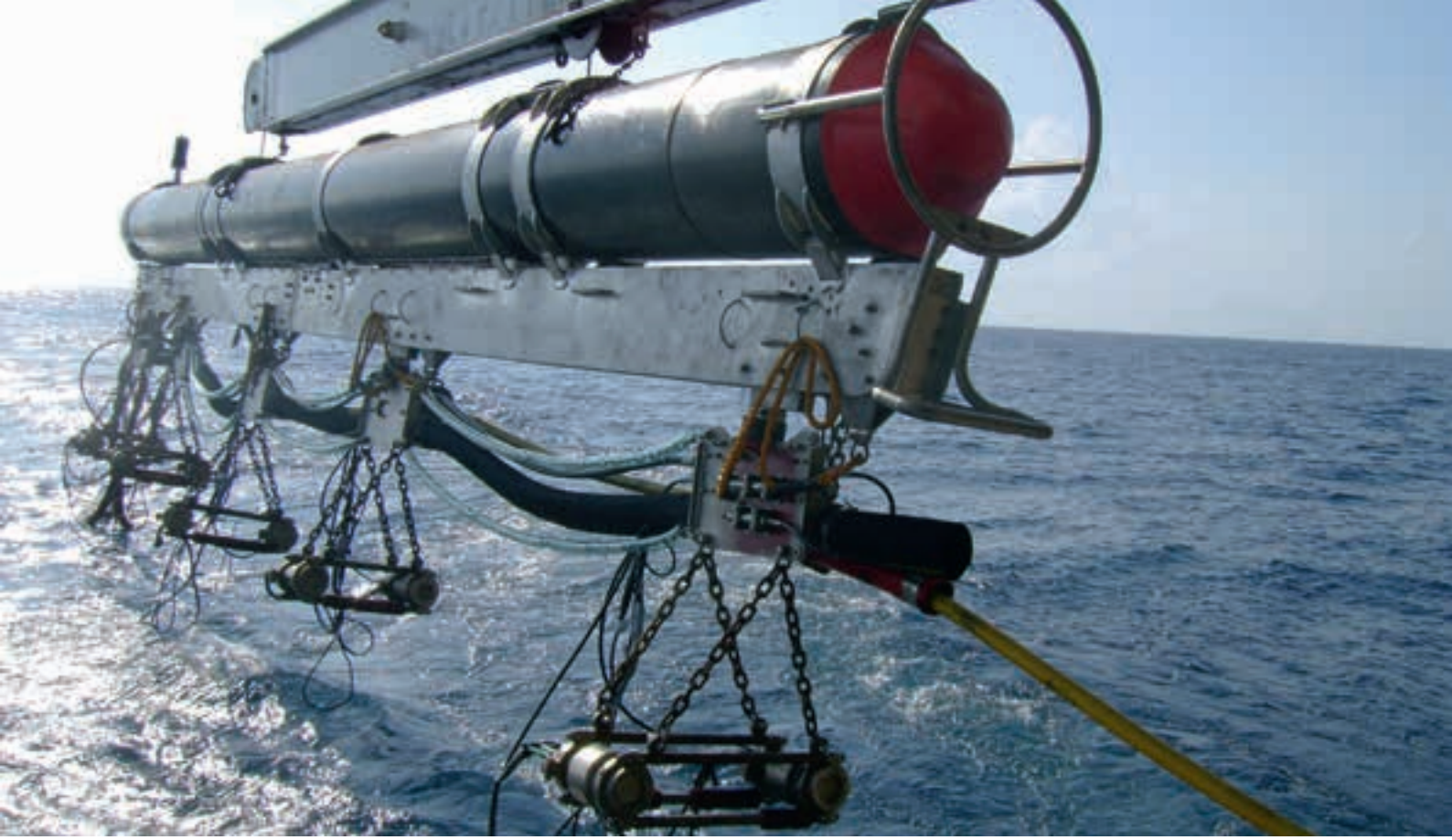
1. Latest Borehole Geophysics Data Acquisition Technology
2. Pushing Borehole Geophysical Data Processing
3. Integration of Borehole and Surface Geophysical Methods
4. Bridging the Scale Gap in Reservoir Characterisation and Monitoring

Call for Abstracts is open until 30 June 2019, and interested parties are encouraged to submit abstracts in the standard EAGE format of 2-4 pages.

## TOPICS

We welcome submissions on theoretical results and case studies on the following:

- Integration with Surface Seismic Data
- Acquisition Hardware Methods including Distributed Acoustic Sensing (DAS)
- Time-lapse Reservoir Monitoring
- Pushing Processing Technology
- Full Waveform Inversion (FWI)
- Artificial Intelligence (AI) and Machine Learning (ML)
- Acoustic Sonic and Non-Seismic Methods
- Reservoir Characterization
- Microseismic and Monitoring



## SHORT COURSE

**Advanced Elastic Anisotropy Calibration:** From Borehole to Seismic Scales
**By:** Olga Zdraveva (*Depth Imaging Advisor, WesternGeco*), Scott Leaney (*Microseismic & VSP Advisor, Schlumberger*) and Erik Wielemaker (*Sonic Expert, Schlumberger*)

An accurate characterization of the anisotropic elastic properties of subsurface formations is key to both geomechanical and geophysical applications. Borehole sonic and borehole seismic are a rich source of measurements of the dynamic elastic behavior of formations, providing key in-situ constraints to surface seismic studies. In most published cases, the characterized formations are assumed to be well-described by a transversely isotropic (TI) model consisting of up to five independent parameters, and inversion results are commonly reported following Thomsen's notation (i.e., in terms of VP0, VS0, $\varepsilon$, $\delta$, and $\gamma$). Sonic slowness measurements can be augmented with auxiliary data from published core measurements, to also provide plausible logs of fractured VTI (FVTI) moduli.

In this one-day short-course, three active experts with over 20-30 years of experience each, working in the fields of sonic, microseismic, VSP and surface seismic depth imaging, will provide the fundamental knowledge necessary to understand, identify and estimate different types of elastic anisotropy, and will show how to integrate the measurements across different scales, from cores up to surface seismic.

## DEADLINES

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| Call for Abstracts Open | 1 February 2019 |
| Call for Abstracts Close | 30 June 2019 |
| Registration Open | 1 August 2019 |
| Registration Close | 10 November 2019 |

## SPONSORSHIP OPPORTUNITIES

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**Thank to our sponsors for their generous contribution to this workshop.**

Ice Breaker

HALLIBURTON

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