

The top half of the image features a background of glowing fiber optic cables in shades of blue, green, and red, creating a bokeh effect. In the top left corner, there is a green rectangular box containing the EAGE logo and its full name.

EAGE

EUROPEAN
ASSOCIATION OF
GEOSCIENTISTS &
ENGINEERS

EAGE Workshop on Fiber Optic Sensing for Energy Applications in Asia Pacific

2-4 NOVEMBER 2020 • KUALA LUMPUR, MALAYSIA

- **First Announcement**
-

WWW.EAGE.ORG

ABOUT THE WORKSHOP

Distributed fiber-optic sensing (DFOS) is the way of utilising single optical fiber to measure physical parameters along its length by sending laser pulses into it and analysing the scattered light returning from the fiber. Range of properties which can be derived includes dynamic strain, vibration, temperature, components of electromagnetic field and even chemical composition of the medium. Optical fibers packaged in different cables can be deployed in deep wells, conduits, directly buried in the ground, laid on the sea floor or attached to different objects. Relatively low cost, minimal space requirements and ability to withstand harsh conditions make optical fiber a very versatile sensor with multiple different applications, like seismic imaging and monitoring, hydrocarbon production and hydrofracking monitoring, surface platform and plant facilities, pipeline and railway surveillance, and many-many others.

EAGE Workshop on Fiber Optic Sensing for Energy Applications in Asia Pacific will focus on promoting the use of technology in the area. We aim to bring together lead researchers developing sensing tools, fibers, cables, interrogators, experts in application of DFOS to seismic imaging, downhole monitoring, etc., and current and prospective users of the technology.

The workshop is designed to cater for professionals from oil and gas, coal industry, CCUS and other linked areas, including geoscientists, geophysicists, reservoir engineers, well completion and civil engineers.

SUBMISSION GUIDELINES

The Technical Programme Committee is encouraging submission of high quality abstracts or extended abstracts with direct application to the use of technology from around the world (minimum 600 words). Submissions will be accepted online via www.eage.org before deadline of 20 July 2020.

TOPICS

1. Advances in Fiber Optic Sensing

- Nature of Acoustics, Temperature, Strain and Pressure Measurements: Pushing the limits
- Conventional Standards vs Dedicated Specialty Cables / Fibers
- The Art of Making Successful FO Cables
- Fiber: How We can Deploy it?
- Progress in Hardware and Software/Signal Processing
- Data Analytics, IOT and New Energy

- Advances of Rayleigh, Brillouin and Raman Backscattering
- Dosimetry and Interferometric Sensors
- Electromagnetic and Nano Coated Sensors
- Forward Modeling i.e. Acoustic, Elastic, Fracture
- Advances on Laser Technology
- Advances in Signal to Noise and Resolution

2. Imaging and Monitoring

- Land and Marine Applications
- Borehole Seismic
- Microseismic and Fluid Induced Seismicity, Hydrofracking Monitoring
- Passive Seismic
- Permanent Monitoring
- Unconventional Play
- Flow Profiling
- Real Time Reservoir Monitoring, Surveillance and Optimization
- Subsurface Imaging
- Velocity Model Building and Seismic Imaging
- Acoustical, Thermal and Pressure Imaging

3. Mining Applications (Coal and Beyond)

4. Application for E&P Surface Plants and Platforms Facilities

5. Downstream, Construction, Civil Engineering

- Pipelines Monitoring
- Security and Surveillance
- Roads, Railroads and Conveyors
- Biomedical Sensors

6. Field Application and Field Studies

IMPORTANT DATES

Call for Abstracts Deadline	20 July 2020
Early Bird Registration Deadline	1 September 2020
Online Registration Deadline	26 October 2020
Workshop	2-4 November 2020

SPONSORSHIP & EXHIBITION

Enhance your visibility and corporate image by participating as a workshop sponsor and presenting your technical expertise to a focused and exclusive regional audience. The workshop offers a variety of sponsorship categories and limited exhibition opportunities on a first-come basis. Companies interested to sponsor are invited to contact us via asiapacific@eage.org

See you in Kuala Lumpur!

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