EAGE Seabed Seismic
Today: from Acquisition to Application

8–10 September 2020 • Online

• Technical Programme
Approximately a quarter of a century ago, Eivind Berg, James Martin and Bjørnar Svenning “took land seismic to the seabed.” Their pioneer acquisition and processing work, which was supported by Statoil (now Equinor) provided a new tool to the seismic exploration community to address the well known issue of imaging reservoirs located underneath gas charged sediments.

The early successes on the application of shear waves recorded at the seabed sparked an explosion of interest and activity. Theoretical seismologists, who studied the potential applications of this new type of seismic acquisition, came up with a long list that included: imaging reservoirs with weak acoustic impedance contrasts, fracture characterization, distinction of lithology and fluid effects, pore pressure prediction, high resolution imaging of shallow reservoirs, imaging underneath formations with high P impedance contrasts and discrimination between saturation and pressure changes in reservoir monitoring. Arguably, only imaging underneath gas charged sediments has so far been a widely employed success of shear waves recorded at the seabed.

However, in the last five years, despite the economic downturn, there has been a huge return of interest in seabed seismic acquisition, processing and interpretation, the main driver being P-wave imaging with wide azimuths. This workshop aims at studying the technical reasons of this phenomenon and to identify the challenges that these technologies still faces.

The conveners of this workshop plan to invite industry experts to give presentations that will help to bring all the attendees up to speed on seabed seismic acquisition, processing and interpretation. Case histories from the participants and theoretical developments from the researchers in the industry and from the academia are also welcome.
**Online Presentations | Thursday 10 September**

**Imaging and Velocity Model Building**

13:05  **Keynote - Strategies to increase efficiency of node surveys** - J. Blanch*, A. Kostin, M. Cahoj, D. Ren, F. Lin
  1  BHP  2  CGG

  1  ADNOC  2  PGS

14:10  **Break**

14:20  **SB18 - Robust Full Waveform Inversion for sparse ultra-long offset OBN data** - H. Aghamiry, A. Gholami, S. Operto*
  1  UCA - CNRS - GeoAzur  2  University of Tehran

14:45  **SB20 - Elastic full-waveform inversion using all components of 4C data** - D. Vigh*, X. Cheng, K. Jiao
  1  Schlumberger

15:10  **Break**

15:20  **SB22 - Up-down deconvolution in complex geological scenarios** - D. Boiero*, C. Bagaini
  1  Schlumberger

15:45  **SB24 - 4D gravity and subsidence monitoring as cost-effective alternatives to 4D seismic** - H. Ruiz*, M. Lien
  J.E. Lindgård
  1  OCTIO AS

16:10  **Break**

16:20  **SB25 - Accurate measurement of node depths and seafloor deformation during seabed seismic acquisition** - P. Hatchell*, H. Ruiz, A. Libak, R. Agerosbor, B. Nolan
  1  OCTIO AS  2  Shell International Exploration and Production Inc.

16:45  **Discussion Session on Novel Applications**

End of Workshop

**REGISTRATION**

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<th>REGISTERED AND PAID</th>
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<tbody>
<tr>
<td>EAGE Member</td>
<td>€ 150</td>
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<tr>
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Members please note: To qualify for the member registration fee, your EAGE membership dues for 2020 must have been paid and confirmed. The processing time for membership applications or renewals is around 10 working days.

To qualify for the reduced student registration fee:
- Students must be enrolled in a full-time study programme at a recognized university or institute.
- The registration must be accompanied by a copy of a student ID card and/or official proof of enrolment.

The non-member fee includes EAGE membership for the remainder of 2020. This membership will be activated shortly after the conclusion of the event. Student non-members cannot be older than 34 years of age (when registering).

Please visit the event website for more information about the workshop and how to register, or contact us at:
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