

The background of the top half of the page features a dark, abstract image of a rock face with a network of glowing yellow and orange lines that resemble seismic wave patterns or a complex geological structure. In the top left corner, there is a teal square containing the EAGE logo and its full name.

EAGE

EUROPEAN
ASSOCIATION OF
GEOSCIENTISTS &
ENGINEERS

First EAGE Workshop on Induced Seismicity

22-24 MARCH 2021 • THE HAGUE, THE NETHERLANDS

- **Workshop Brochure | Call for Abstracts**

WWW.EAGE.ORG

TECHNICAL COMMITTEE

| | |
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| Brian Baptie | British Geological Survey |
| David Bruhn | TU Delft/GFZ Postdam |
| Leo Eisner | Seismik |
| Sepideh Karimi | Nanometrics |
| Claudio Strobbia* | realtimeseismic |
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| Brecht Wassing | TNO |

*Co-chairs

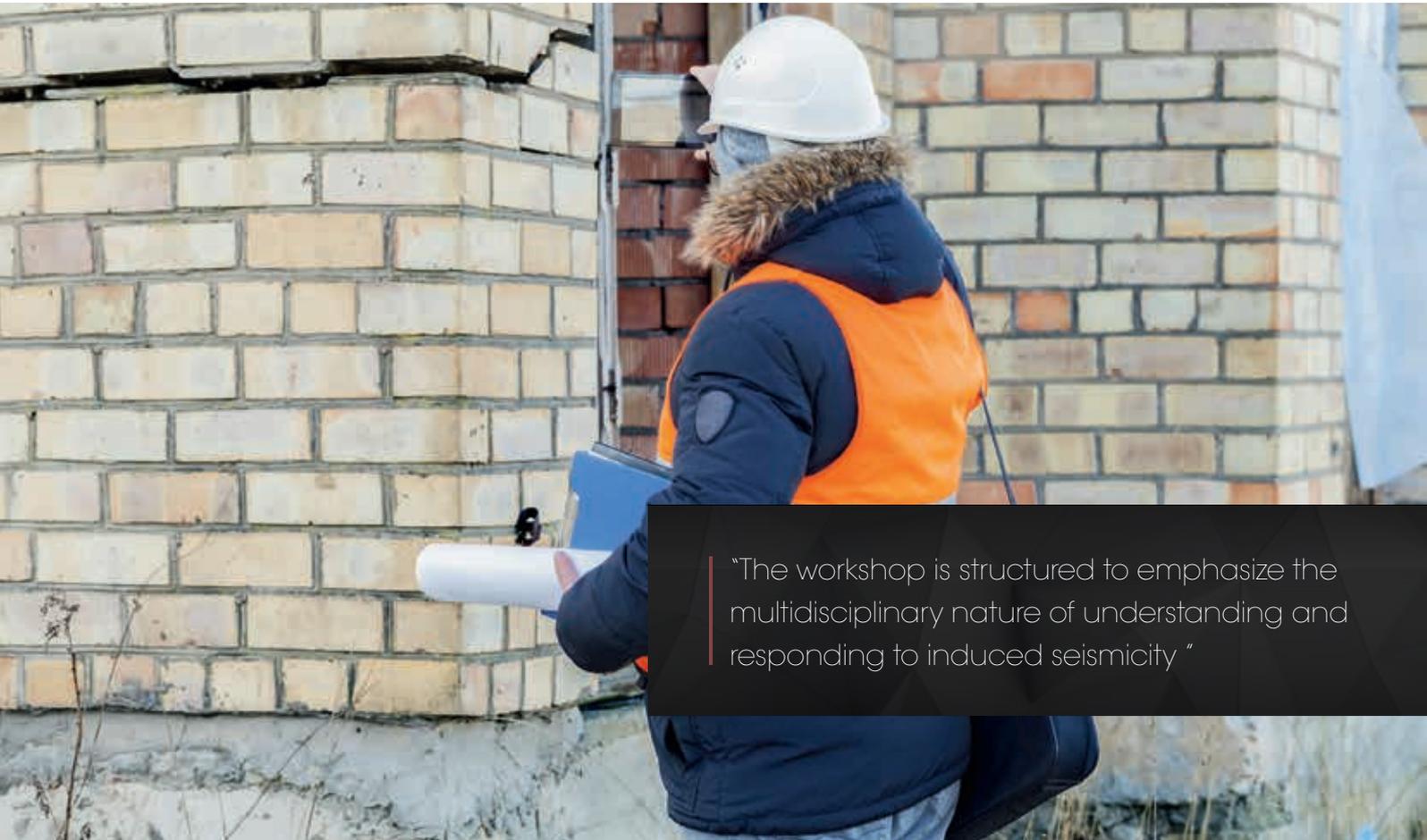
OVERVIEW

The mitigation of induced and triggered seismicity, as a result of energy production and industrial activities, remains a major challenge for industries, local populations and governments around the globe. These hazards are often significant in European countries where industrial operations can occur in close proximity to populated regions. In some cases negative public reactions have led to the suspension of such activities. Long term seismic monitoring and geomechanical and seismological studies provide an increased understanding of the rupture process and scientific insights to facilitate the control and mitigation of induced seismic events while enabling the continuation of industrial

activities. The First EAGE Workshop on Induced Seismicity provides an opportunity to explore the latest developments in monitoring, modeling and mitigation of induced seismicity. Over three structured days of technical talks and discussions we will seek to examine the mechanisms and dominant factors related to the occurrence of felt induced events. Following an examination of the science, we will also explore how the geomechanical, seismological and geological expertise can best guide science based regulations, technical specifications and effective mitigation strategies.

The workshop is structured to emphasize the multidisciplinary nature of understanding and responding to induced seismicity. Participants from energy operators, service companies, regulators, academia, non-governmental organizations and other experts will gather to share valuable insights which lead to a collaborative and enhanced understanding of the major challenges faced.

We encourage submissions on all theoretical and practical aspects within a wide range of geological settings and industrial applications including: geothermal, mining, hydropower, oil and gas production, natural gas and CO₂ storage, hydraulic fracturing, and wastewater injection. We especially encourage submissions of case histories and ongoing studies at European sites.



“The workshop is structured to emphasize the multidisciplinary nature of understanding and responding to induced seismicity ”



TOPICS

Day 1: Advances in Monitoring Induced Seismicity

- Passive Seismic Networks
- Data Acquisition and Processing
- Microseismicity
- Network Design and Specifications
- Best Practices
- Novel Instrumentation
- Automated Identification and Interpretation of Events
- Full-Waveform Modelling
- Advances in Survey Planning

Day 2: Triggering Mechanisms and Geomechanics

- Discrimination of Induced from Natural Seismicity
- Geomechanics and Triggering Mechanisms
- Understanding Fault Behaviour
- Modeling Induced Seismicity
- Laboratory Studies
- Case Histories

Day 3: Risk Assessment and Mitigation

- Mitigation Procedures
- Social Aspects and Public Interaction
- Management Systems
- Knowledge Based Regulations
- Industry and Regulatory Approaches

SUBMISSION GUIDELINES

The technical committee invites abstracts of two pages. Submissions will be accepted online via www.eage.org. Please review the guidelines on the event website before submitting your abstract.

IMPORTANT DATES

| | |
|-----------------------------------|------------------|
| Abstracts Submission Deadline | 1 November 2020 |
| Early Registration Deadline | 10 January 2021 |
| Regular Registration Deadline | 10 February 2021 |
| First Induced Seismicity Workshop | 22-24 March 2021 |

VENUE

TBC

The Hague, The Netherlands

SPONSORING

This workshop offers excellent sponsoring opportunities to create high visibility to your company. For more information about sponsoring, please visit the [event website](#) or contact us via eage.events@eage.org.

CONTACT

For any questions about the EAGE Workshop on Induced Seismicity, please visit the [event website](#) via events.eage.org or contact EAGE Europe Office at +31 88 995 5055 or send us an email via eage.events@eage.org.



EUROPE OFFICE
+31 88 995 5055
EAGE@EAGE.ORG

RUSSIA & CIS OFFICE
+7 495 640 2008
MOSCOW@EAGE.ORG

MIDDLE EAST/AFRICA OFFICE
+971 4 369 3897
MIDDLE_EAST@EAGE.ORG

ASIA PACIFIC OFFICE
+60 3 272 201 40
ASIAPACIFIC@EAGE.ORG

LATIN AMERICA OFFICE
+57 1 7449566 EXT 116
AMERICAS@EAGE.ORG

HEAD OFFICE • PO BOX 59 • 3990 DB HOUTEN • THE NETHERLANDS • +31 88 995 5055 • EAGE@EAGE.ORG

www.eage.org



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