

EAGE



EAGE GEOTECH

1ST EAGE GEOPHYSICAL MONITORING
CONFERENCE AND EXHIBITION 2021

1 - 4 MARCH 2021 | ONLINE

Third EAGE Workshop on
Practical Reservoir Monitoring

Second EAGE Workshop on
Distributed Fibre Optic Sensing

First EAGE Workshop on
Induced Seismicity

First EAGE Workshop on
Directional Drilling and Geosteering

SECOND ANNOUNCEMENT AND PROGRAMME



Welcome to the First EAGE Geophysical Monitoring Technology Conference and Exhibition 2021

Third EAGE Workshop on
Practical Reservoir Monitoring

Second EAGE Workshop on
Distributed Fibre Optic Sensing

First EAGE Workshop on
Induced Seismicity

First EAGE Workshop on
Directional Drilling and Geosteering

ABOUT THE CONFERENCE

The First EAGE Geophysical Monitoring Technology Conference and Exhibition is dedicated to the use of geophysical monitoring solutions and technologies in a wide range of subsurface, reservoir and production challenges. Embracing the push towards a low carbon future and the emerging opportunities available for geoscientists, EAGE GeoTech 2021 will bring together leading experts in geoscience, reservoir engineering, drilling and data science to tackle some of the major challenges in subsurface resource production and other industrial applications.

The innovative format of the Conference brings together four dedicated workshops under one comprehensive conference programme. This will provide cost savings for attendees while providing unique opportunities for crossover knowledge exchange and interaction.

The featured workshops are:

- Third EAGE Workshop on Practical Reservoir Monitoring
- Second EAGE Workshop on Distributed Fibre Optic Sensing
- First EAGE Workshop on Induced Seismicity Monitoring
- First EAGE Workshop on Directional Drilling and Geosteering

The Technical Programme also offers two complementary courses:

Introduction to Geosteering

Tuesday 2 March 2021 (9:00 - 16:00)

Convened by Dr. Vlad Karen Payrazyan (Rogii) and Kirill Ronzhin (Rogii)

This course will give a comprehensive introduction to all aspects of geosteering: pre-job, real-time well placement and post analysis. Participants will learn how to integrate various datasets from different disciplines such as drilling, geophysics, petrophysics and geology in order to execute a successful well placement job. Attendees will get to know multiple data types, including but not limited to MWD and LWD logs, image logs, mudlogs, seismic and structural surfaces and how to analyze it.

Introduction to Distributed Fibre Optic Sensing

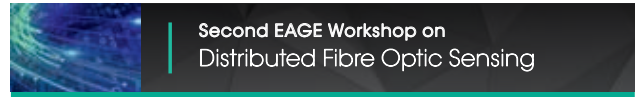
Wednesday 3 March 2021 (12:00 - 17:00)

Convened by Mahmoud Farhadiroushan (Silixa)

This course provides introduction to fibre optics and the basic principles of distributed sensing technology. It also covers key components, cable designs and installation methods for onshore and offshore completions. Case studies focusing on the implementations and applications across the oil and gas industry will be presented in order to gain a better understanding of the practical benefits of distributed fibre optic sensing technology. Advanced system architectures to address future applications, such as subsea wells, will be also highlighted.

Presentations | Monday 1 March

	
PRM - A Repeatable Story C. MacBeth (Heriot-Watt University), M. Thompson (Equinor)	
12:00	Welcome Address Day 1
12:05	Keynote 1: The Life and Times of a 4D Geophysicist - M. Calvert ^{1*} ¹ Total E&P Denmark
12:35	Keynote 2: A Career Monitoring Reservoirs - 20 years as a 4D Practitioner - J. Brain ^{1*} ¹ Shell UK Ltd.
13:05	Discussion
13:20	Coffee Break
Planning J.E. Lindgård (OCTIO), D. Lecerf (PGS)	
13:30	Finding the sweet spot? Choosing the right seismic monitoring strategy for your field - M. Branston ¹ , C. Leone ¹ , M. Chapelle ¹ , A. Murineddu ¹ , M. Paydayesh ¹ , R. Campbell ¹ , M. Shadrina ¹ , J. Butt ^{1*} ¹ Schlumberger
13:50	Swath matching technique: The application of 4D acquisition techniques to towed streamer 3D. - A. Styles ^{1*} , D. Hillier ¹ , S. Stockwell ¹ , L. Sierralta ¹ ¹ ION
14:10	Discussion
14:25	Coffee Break
Efficiency P. Mitchell (TAQA), J.E. Lindgård (OCTIO)	
14:35	Efficient deep-water ocean-bottom-node time-lapse seismic processing workflows illustrated with examples offshore Nigeria - O. Osabuohien ^{1*} , P. Smith ² , P. Kristiansen ² ¹ Schlumberger; ² Schlumberger
14:55	PRM seismic acquisition real-time monitoring. An example of how digitalization can enable acquisition productivity and efficiency. - C. Fayemendy ^{1*} , E. Sadikhov ¹ , M. Schuberth ¹ ¹ Equinor
15:15	Discussion
15:30	Coffee Break
Advances in PRM P. Johann (Petrobras), K. Wang (Shell)	
15:40	Practical implementation of a Permanent Reservoir Monitoring system at Johan Sverdrup - C. Fayemendy ^{1*} , E. Sadikhov ¹ , A.E. Bjåstad ¹ , H. Nakstad ^{2*} , S.E. Aasen ² , F. Cazeneuve ² ¹ Equinor ASA; ² Alcatel Submarine Networks
16:20	Keynote 3: Renewal and Repeatability - S. Pannetier Lescoffit ^{1*} ¹ Equinor ASA
16:50	Discussion
17:05	End of Day 1

	
Geophysical and Geotechnical Monitoring M. Farhadiroushan (Silixa), A. Wuestefeld (Norsar)	
12:00	Welcome Address Day 1
12:05	Keynote: Seismic Monitoring of CO2 Geosequestration Using Multi-well DAS VSP: Stage 3 of CO2CRC Otway Project - R. Pevzner ^{1*} , K. Tertyshnikov ¹ , R. Isaenkov ¹ , E. Sidenko ¹ , S. Popik ¹ , A. Yurikov ¹ , S. Yavuz ¹ , B. Gurevich ¹ , J. Correa ² , T. Wood ² , S. Glubokovskikh ² , B. Freifeld ³ , S. Nikolov ⁴ , M. Mondanos ⁴ , P. Barraclough ¹ Curtin University; ² LBNL; ³ Class VI Solutions; ⁴ Silixa Ltd; ⁵ CO2CRC Ltd
12:35	Optimizing Distributed Sensing Measurements in Multi-Well Acquisition - A. Chavarria ^{1*} , T. Bown ¹ ¹ OptaSense
12:55	Subsea Fiber Topology and Effect on 3D and 4D Subsea DAS VSP Images - M. Willis ^{1*} , A. Ellmauthaler ¹ , G. Wilson ¹ , O. Augusto Barrios ¹ ¹ Halliburton
13:15	Feasibility of reservoir monitoring using nonlinear seismic effects measured by downhole distributed acoustic sensors - A. Yurikov ^{1,2*} , R. Isaenkov ^{1,2} , K. Tertyshnikov ^{1,2} , B. Gurevich ^{1,2} , E. Sidenko ^{1,2} , S. Glubokovskikh ^{1,2} , V. Shulakova ^{3,2} , B. Freifeld ^{4,2} , J. Correa ^{5,2} , T. Wood ⁵ , R. Pevzner ^{1,2} ¹ Curtin University; ² CO2CRC; ³ CSIRO; ⁴ Class VI Solutions; ⁵ LBNL
13:35	Discussion
13:50	Coffee Break
Flow Measurements, Leakage and Geohazard Detection R. Pevzner (Curtin University), S. Soulas (LYTT)	
14:00	Monitoring acoustic events in boreholes using wavelength-scanning coherent optical time domain reflectometry in multimode fiber - X. Lu ^{1*} , M. Schukar ¹ , S. Großwig ² , U. Weber ² , K. Krebber ¹ ¹ Bundesanstalt Für Materialforschung Und-prüfung (BAM); ² GESO Gesellschaft für sensorik
14:20	Monitoring of water injection and production using integrated fibre optic sensing dataset - L. Ricard ^{1*} , J. Dautriat ¹ , M. Myers ¹ , M. Pujol ² ¹ CSIRO Energy; ² Rockwater
14:40	Assessing the time lapse performance of perforations using temperature - L. Ricard ^{1*} , S. Jackson ² ¹ CSIRO Energy; ² CSIRO Energy
15:00	Engineered Distributed Acoustic Flow Profiling Sensing Solutions - M. Farhadiroushan ¹ , C. Milne ^{1*} , T. Parker ¹ , S. Hafezi ¹ , R. Aghayev ¹ , V. Mahue ¹ , S. Shatalin ¹ ¹ Silixa Ltd
15:20	Discussion
15:35	Coffee Break
Integration and Reservoir Monitoring Y. Li (Blue Sky Days), M. Willis (Halliburton)	
15:45	Keynote: Integrated Distributed Fibre Optic Sensing System for Reservoir and Subsurface Monitoring - M. Farhadiroushan ^{1*} , T. Parker ¹ , S. Shatalin ¹ , A. Gillies ¹ , Z. Chen ¹ , R. Aghayev ¹ , A. Zarifi ¹ , J. Maxwell ¹ ¹ Silixa Ltd
16:15	A Fully Optical Three-Component Accelerometer for Borehole Applications - C. Christensen ¹ , R. Metzbowler ¹ , A. Berzanskis ¹ , J. Haldorsen ^{1*} , G. Bergery ² , V. Lesnikov ² , M. Verliac ² ¹ MagiQ Technologies; ² Total SA
16:35	DAS interrogation on standard single mode fibres in long tie-back subsea wells - J.K. Brenne ^{1*} , M. Eriksrud ¹ ¹ Alcatel Submarine Networks
16:55	Dark fiber for subsurface characterization along railways - E. Obando ^{1*} , P. Doornbal ¹ , P. Hölscher ¹ , A. Van Uiter ² , C. Mas ² , H. Zandberg ² , A. Chalari ³ ¹ Deltares; ² ProRail; ³ Silixa
17:15	Discussion
17:30	End of Day 1

Presentations | Tuesday 2 March



First EAGE Workshop on Directional Drilling and Geosteering

Workshop Course: Introduction to Geosteering
Dr. V.K. Payrazyan (ROGII), K. Ronzhin (ROGII)

09:00-16:00



Third EAGE Workshop on Practical Reservoir Monitoring

Insights
C. MacBeth (Heriot-Watt University), D. Lecerf (PGS)

12:00	Welcome Address Day 2
12:05	Offshore Reservoir Management - M.C. Costa ^{1*} ¹ Equinor
12:35	Reservoir insights unlocked by multidisciplinary integration - S. Oppert ^{1*} , S. Carley ¹ ¹ Chevron
12:55	Sim2Seis and 4D seismic data for fast-track production history matching; a North Sea case study - S. Harrington ^{1*} , A. Atkinson ² , M. Paydayesh ¹ , L. Ouagueni ³ ¹ Schlumberger; ² Rockflow Resources Ltd; ³ Tailwind Mistral Ltd
13:15	Quantitative Use of 4D seismic on Atlantis field - D. Kumar ^{1*} , J. Van Gestel ¹ , M. Le Good ¹ , P. O'Connor ¹ , Y. Gu ¹ , T. Alakbarova ¹ , J. Long ¹ , T. Doré ¹ ¹ BP
13:35	Discussion
13:55	Coffee Break

Moving Beyond the Norm
P. Mitchell (TAQA), M. Thompson (Equinor)

14:05	Background Seismicity Monitoring Using Conventional Offshore Geophones: An Input to the Carbon Capture and Storage Project - Z. Zarifi ^{1*} , A. Furre ¹ , P. Ringrose ¹ , L. Ottemöller ² , R. Thorsen ¹ ¹ Equinor ASA; ² Department of Earth Sciences, University of Bergen
14:25	Early Detection of Non-Conformance in Monitoring of CO2 Storage Reservoirs Using Auto-Encoder Neural Networks - E. Barros ^{1*} , B. Boullenger ¹ ¹ TNO
14:45	Monitoring the Snøhvit gas field using seabed gravimetry and subsidence - H. Ruiz ^{1*} , M. Lien ¹ , H. Alnes ² , M. Haver ¹ , H. Sørensen ² ¹ OCTIO AS; ² Equinor Energy AS
15:05	Discussion
15:20	Coffee Break

Pushing the Envelope
P. Johann (Petrobras), K. Wang (Shell)

15:30	Keynote 5: Informing neural networks with fluid flow consistent property correlations: A 4D seismic inversion application - G. Côte ^{1*} , J. Dramsch ² , H. Amini ¹ , C. MacBeth ¹ ¹ Heriot-Watt University; ² Technical University of Denmark
16:00	Keynote 6: Time lapse seismic modelling in fractured carbonate reservoirs - S. Oppert ^{1*} , J. Adachi ¹ , N. Ruby ¹ , M. Ramos ¹ ¹ Chevron
16:30	Keynote 7: Centre for Geophysical Forecasting - M. Landrø ^{1*} ¹ Norwegian University of Science & Technology
17:00	Discussion and Closing Remarks
17:30	End of Day 2



Second EAGE Workshop on Distributed Fibre Optic Sensing

Microseismic
F. Hveding (Saudi Aramco), N. Noether (fibristerre Systems)

12:00	Welcome Address Day 2
12:05	Keynote: Distributed Acoustic Sensing in Antarctica - M. Kendall ^{1*} ¹ University of Oxford
12:25	Distributed Acoustic Sensing in Antarctica: What we can learn for studying microseismicity elsewhere - T. Hudson ^{1*} , A. Baird ² , J. Kendall ¹ , S. Kufner ³ , A. Brisbane ³ , A. Smith ³ , A. Butcher ⁴ , A. Chalari ⁵ , A. Clarke ⁵ ¹ University of Oxford; ² NORSAR; ³ NERC British Antarctic Survey; ⁴ University of Bristol; ⁵ Silixa Ltd
12:45	DAS Microseismic Monitoring with Multiple Fiber Optic Arrays - S. Cole ^{1*} , J. Furlong ² , M. Karrenbach ¹ , V. Yartsev ¹ , L. LaFlame ¹ ¹ OptaSense; ² OptaSense
13:05	Discussion
13:20	Coffee Break

Calibration of Data
G. Galli (ENI), V. Lantiq (Febus Optics)

13:30	Laboratory measurements of elastic properties at seismic frequencies using DAS sensors - A. Yurikov ^{1*} , M. Lebedev ¹ , R. Pevzner ¹ , K. Tertyshnikov ¹ , V. Mikhaltsevich ¹ ¹ Curtin University
13:50	Effects of temperature on DAS measurements - E. Sidenko ^{1*} , R. Pevzner ¹ , K. Tertyshnikov ¹ , M. Lebedev ¹ ¹ Curtin University
14:10	NOR-FROST: A near-surface test site for fibre optic sensing - A. Wuestefeld ^{1*} , S. Stokkan ¹ , A. Baird ¹ , V. Oye ¹ ¹ NORSAR
14:30	Discussion
14:45	Coffee Break

Geomechanics
M. Karrenbach (Optasense), S. Moriggi (ENI)

14:55	Keynote: Enhanced integrity monitoring via distributed strain sensing along the cemented production casing of salt cavern wells - N. Nöther ^{1*} , M. Schlichtenmayer ² , C. Pretzschner ³ , M. Facchini ¹ ¹ fibrisTerre Systems GmbH; ² ESK GmbH; ³ ESK GmbH
15:25	Ground Condition Monitoring of a Landslide using Distributed Rayleigh Sensing - P. Clarkson ^{1*} , R. Crickmore ¹ , A. Godfrey ¹ , C. Minto ¹ , B. Purnell ¹ , D. Gunn ² , B. Dashwood ² , J. Chambers ² , A. Watlet ² , J. Whiteley ² ¹ Optasense; ² British Geological Survey
15:45	Urban traffic monitoring using Distributed Acoustic Sensing along laid fiber optic cables - K. Hicke ^{1*} , S. Chruscicki ¹ , S. Münzenberger ¹ ¹ BAM Federal Institute for Materials Research and Testing
16:05	Discussion
16:20	Coffee Break

Data Processing
Y. Li (Blue Sky Days), A. Tura (Colorado School of Mines)

16:20	Radon transform-based detection of microseismicity on DAS networks: A case study from Antarctica. - A. Butcher ^{1*} , T. Hudson ² , J. Kendall ² , S. Kufner ³ , A. Brisbane ³ , A. Stork ⁴ ¹ University of Bristol, UK; ² University of Oxford; ³ NERC British Antarctic Survey; ⁴ Silixa Ltd
16:40	Signal detection in DAS data using spectral analysis - V. Rocheva ² , T. Zharnikov ^{1*} , F. Hveding ³ ¹ Aramco Research Center - Moscow, Aramco Innovations LLC; ² Skoltech; ³ Saudi Aramco, EXPEC ARC PTD
17:00	Towards fast DAS passive seismic monitoring combining Compressive Sensing with a deep learning decoder - I. Vera Rodriguez ^{1*} ¹ NORSAR
17:30	Discussion
17:45	End of Day 2

Presentations | Wednesday 3 March



Second EAGE Workshop on Distributed Fibre Optic Sensing

Workshop Course: Introduction Distributed Fibre Optic Sensing
M. Farhadiroushan (Silixa)

12:00 - 17:00



First EAGE Workshop on Induced Seismicity

Induced Seismicity in The Netherlands
D. Bruhn (TU Delft), C. Strobbia (realtimeseismic)

12:00	Welcome Address Day 1
12:05	Keynote: Future monitoring of induced seismicity in the Groningen field - J. Van Elk ^{1*} ¹ NAM BV
12:35	EPOS-NL is the Dutch solid Earth science infrastructure for research on georesources and geohazards - R. Pijnenburg ^{1*} , S. Laumann ² , R. Wessels ¹ , G. Ter Maat ¹ , L. Armstrong ² , J. Bie kowski ³ , R. Sleeman ³ , P. Vardon ² , D. Bruhn ² , A. Barnhoorn ² , A. Niemeijer ¹ , O. Plümper ¹ , E. Willingshofer ¹ , C. Spiers ¹ , K. Wapenaar ² , J. Trampert ¹ , M. Drury ¹ ¹ Utrecht University (UU); ² Delft University of Technology (TU Delft); ³ Royal Netherlands Meteorological Institute (KNMI)
13:00	Seismic monitoring network for induced seismicity in the Netherlands - P. Kruijver ^{1*} , J. Spetzler ¹ , E. Ruigrok ^{1,2} , B. Dost ¹ ¹ Royal Netherlands Meteorological Institute; ² Utrecht University
13:25	Discussion
13:00	Coffee Break

Advanced Analysis of ISM
L. Eisner (Seismik), T.J. Moser (Moser Geophysical Services)

14:00	Systematic Recovery of Instrumental Timing Errors Using Interferometric Surface Waves Retrieved from Large N Seismic Arrays - C. Weemstra ^{1*} , J. De Laat ² , A. Verdel ³ ¹ Delft University of Technology; ² Dublin Institute for Advanced Studies; ³ Netherlands Organization for Applied Sciences
14:25	Identification of Tectonic Structures Based On Tremors in Bobrek Coal Mine Using A Collapsing Method - A. Lesniak ¹ , E. W gli ska ^{1*} , K. Mirek ¹ ¹ AGH University of Science and Technology
14:50	Towards efficient probabilistic characterisation of induced seismic sources in the Groningen Gas field - L.O.M. Masfara ^{1*} , K. Weemstra ¹ ¹ Delft University Of Technology
15:10	Discussion
15:30	Coffee Break

New Approaches to ISM Analysis
S. Karimi (Nanometrics), T. Urbanic (Meta Innovation Technologies)

15:40	Keynote: Machine Learning & AI Approaches - M. Van der Baan ^{1*} ¹ University of Alberta
16:10	Next maximal event magnitude from statistical method - N. Cao ^{1*} , L. Eisner ¹ , Z. Jechumtalova ¹ ¹ Seismik S.r.o.
16:35	Towards Synthetically Trained Convolutional Neural Networks for Induced Earthquake Detection and Localization - N. Vinard ^{1*} , G.G. Drijkoningen ¹ , D.J. Verschuur ¹ ¹ Delft University of Technology
17:00	Discussion
17:15	End of Day 1



First EAGE Workshop on Directional Drilling and Geosteering

Data Integration and Multidisciplinary Workflows
K. Ronzhin (ROGII), A. Goertz (OCTIO Gravitude)

12:05	Welcome Address Day 1
12:05	Advanced Geosteering using Data Integration on XRF/XRD, Gas Analysis and LWD data to Optimize Well Placement - J. Dashti ^{1*} , B. Al-Ajmi ¹ , H. Sabri ¹ , B. Al-Adsani ¹ , H. Farwan ¹ , A. Al-Shoeibi ² , M. Sanclemente ² , D. Krott ³ , R. Cuevas ³ ¹ Kuwait Oil Company; ² Geolog International B.V.; ³ ROGII
12:25	A multidisciplinary approach for precise well-placement and accurate wellbore positioning, utilizing third-party directional and LWD tools - G. Zahid ^{1*} , R. Harvey ² , J. Massop ³ ¹ GazServ Inc.; ² Belloy Petroleum Consulting Ltd.; ³ Remote Operations Professionals Inc.
12:45	Discussion
13:00	Panel Discussion: Where does G&G and Drilling Meet?
13:50	Coffee Break

Wellbore Position Uncertainty
D. Marbebe (Saudi Aramco), J. Singer (Fugro)


14:00	Keynote
14:40	Identifying the value of an advanced surveying technique to aid the decision making process while geosteering - R. Rakhmangulov ^{1*} , D. Levitskiy ² , D. Leontyev ¹ , V. Gredzhev ² ¹ Schlumberger; ² Arctic SPG 2
15:00	Integrated approach for the U-type horizontal well drilling & geosteering in shallow Turonian sands. - A. Valiakhmetov ^{1*} , V. Kramar ¹ , R. Khabibullin ¹ , I. Shmarin ² , V. Vorobev ³ , I. Dubnitsky ³ ¹ Schlumberger; ² OOO Rusgazburenii; ³ OJSC Severnftgazprom
15:20	Discussion
15:35	Coffee Break

Automation and Data Analytics
F. Chinellato (ENI), L. Peters (TNO)

15:45	Automatization and optimization of geosteering processes at Rosneft company - M. Lisitsyna ^{1*} , T. Rakhimov, A. Mikhoparkin ¹ IGIRGI (Rosneft)
16:05	Assisted Geosteering Through Advanced Computed Algorithms - D. Marbebe ¹ , A. Sabirov ^{1*} , W. Davila ¹ , K. Ronzhin ² , V.K. Payrazyan ² ¹ SAUDI ARAMCO; ² ROGII
16:25	New Data Transfer Protocol Capabilities Automate Data Streaming Channel Setup and Reduce the Probability of Errors - P. Neri ^{1*} , R. Philo ¹ ¹ Energistics
16:45	Discussion
17:00	End of Day 1

Presentations | Thursday 4 March

 First EAGE Workshop on Induced Seismicity	
Microseismic Data Analysis: New approaches L. Eisner (Seismik), T.J. Moser (Moser Geophysical Services)	
12:00	Welcome Address Day 2
12:05	Keynote: Corkscrew Well Paths for Improved Microseismic Event Locations with DAS Recordings - A. Wuestefeld ^{1*} ¹ NORSAR
12:35	Picking Automatization by Pattern Matching: A New Methodology Using EAT Events - L. Duboeuf ^{1*} , V. Oye ¹ , I. Berre ² ¹ Norsar; ² Universitetet i Bergen
13:00	Monitoring and forecasting failure in laboratory using coda wave decorrelation - A. Veltmeijer ^{1*} , M. Naderloo ¹ , A. Barnhoorn ¹ ¹ TU Delft
13:25	Discussion
13:40	Coffee Break
Microseismic Monitoring & Interpretation C. Strobbia (realtime seismic), J. van Elk (NAM)	
13:50	Keynote 4
14:20	Effective Monitoring of Hydraulic Fracture Stimulations Using Microseismicity: Part 1, Source Scaling Behavior and Stress Release - T. Urbancic ^{1*} , E. Ardakani ¹ ¹ META INNOVATION TECHNOLOGIES
14:45	Effective Monitoring of Hydraulic Fracture Stimulations Using Microseismicity: Part 2, Tapered Gutenberg – Richter Relationship - T. Urbancic ^{1*} ¹ META INNOVATION TECHNOLOGIES
15:10	Discussion
15:25	Coffee Break
Risk Assessment & Mitigation Utilizing Microseismicity S. Karimi (Nanometrics), T. Urbanic (Meta Innovation Technologies)	
15:35	Keynote 5: Using Microseismicity to Manage Induced Seismicity During Hydraulic Fracturing at the Preston New Road PNR1 Well - J. Verdon ^{1*} , T. Kettleby ¹ , A. Baird ¹ , M. Kendall ¹ ¹ University of Bristol
16:05	Using next-generation seismic monitoring and processing to help manage injection and extraction operations - A. Baig ^{1*} ¹ Nanometrics Inc.
16:30	Developing Approaches for Background Seismicity Monitoring of Potential CO2 Storage Sites in Horda Area Offshore Norway - R. Dehghan-Niri ^{1*} , V. Oye ² , A. Wuestefeld ² , R. Bakke ¹ , M. Wilks ² , A. Furre ¹ , P. Ringrose ¹ ¹ Equinor ASA; ² NORSAR
16:55	Discussion
17:10	End of Day 2

 First EAGE Workshop on Directional Drilling and Geosteering	
Case Studies & Best Practices M. Verliac (Total), F. Chinellato (ENI)	
12:05	Welcome Address Day 2
12:05	Keynote
12:45	Geological monitoring for drilling a transport section well bore using inverse values of ROP - I. Mostovich ^{1*} ¹ Rock Flow Dynamics
13:05	A business system that allows to geosteer 3,000 horizontal wells per year. - V. Filimonov ^{1*} , K. Kudashov, V. Antsupov ¹ Rosneft PJSC
13:25	Discussion
13:40	Coffee Break
Current Challenges & Future Developments K. Ronzhin (ROGII), V. Filimonov (Rosneft)	
13:50	Keynote
14:30	Prototype Concept of Reservoir-Profile-Update-Rate to Quantitatively Evaluate Efficiency of Reservoir Description with Different Services while Drilling - X. Tian ¹ , J. Wan ¹ , B. Chang ^{2*} , C. Wang ² ¹ CNOOC-Shenzhen; ² Schlumberger
14:50	From 2D extra-deep resistivity reservoir mapping to 3D structural modelling. Conegliano UGS, Italy - P. Sudiro ^{1*} , T. Gukov ² ¹ Baker Hughes; ² Edison Stocaggio
15:10	Geomodel Update while Geosteering ERD wells based on Deep Electromagnetic Reservoir Mapping Technology, Russia Far East. - T. Popov ^{1*} , V. Kim ¹ , I. Kabirova ¹ , E. Bolychev ² , V. Maltsev ³ ¹ Schlumberger; ² Rosneft; ³ SMNG
15:30	Discussion
15:45	Coffee Break
Look Ahead Technologies G. Nardi (Weatherford), A. Goertz (OCTIO Gravitude)	
15:55	Evaluation and Application of ElectroMagnetic Look-Ahead Technology - F. Chinellato ^{1*} , M. Mele ¹ ¹ ENI S.p.A.
16:15	Mapping Water Encroachment in Low Deviated Well in Real-Time, A Solution from LWD EM-Look Ahead Technology - I. Pasaribu ^{1*} , N.F. Al-Khalifa ² , M.F. Hassan ² , D. Joshi ² , H. Al-Ajmi ² ¹ Schlumberger; ² Kuwait Oil Company (KOC)
16:35	Improving structural prediction while geosteering through resistivity to acoustic impedance conversion using field data - G. Alberelli ^{1*} , C. Tarchiani ¹ , A. Leone ¹ , M. Nickel ² , D. Steckhan ² ¹ ENI S.p.A.; ² Schlumberger Stavanger Research
15:30	Discussion
15:30	End of Day 2

TECHNICAL COMMITTEES

Third EAGE Workshop on Practical Reservoir Monitoring

Paulo Johann	Petrobras
Didier Lecerf	PGS
John Even Lindgård	OCTIO Gravitude
Colin Macbeth	Heriot-Watt University
Paul Mitchell	TAQA
Mark Thompson	Equinor
Kanglin Wang	Shell

Second EAGE Workshop on Distributed Fibre Optics Sensing

Mahmoud Farhadiroushan*	Silixa
Giuseppe Galli	Eni
Frode Hveding	Saudi Aramco
Martin Karrenbach	OptaSense
Vincent Lanticq	Febus Optics
YingPing Li	Blue Sky DAS
Sara Moriggi	Eni
Nils Noether	fibrisTerre Systems GmbH
Roman Pevzner	Curtin University
Sebastien Soulas	LYTT
Ali Tura	Colorado School of Mines
Mark Willis	Halliburton
Andreas Wuestefeld*	NORSAR

*Co-Chairs

First EAGE Workshop on Induced Seismicity

David Bruhn	TU Delft/GFZ Postdam
Leo Eisner	Seismik
Sepideh Karimi	Nanometrics
Tijmen Jan Moser	Moser Geophysical Services
Claudio Strobbia*	realtimeseismic
Jan van Elk	NAM
James Verdon*	University of Bristol

*Co-Chairs

First EAGE Workshop on Directional Drilling and Geosteering

Filippo Chinelatto	Eni
Victor Filimonov	Rosneft
Alexander Goertz*	OCTIO Gravitude
Dennis Marbebe	Saudi Aramco
Giorgio Nardi	Weatherford
Lies Peters	TNO
Kirill Ronzhin*	Rogii
Johannes Singer	Fugro
Michel Verliac	Total

*Co-Chairs

REGISTRATION

REGISTERED AND PAID	UNTIL 5 FEBRUARY 2021	FROM 6 FEBRUARY 2021
EAGE Green Member ^{1,5}	€ 345	€ 405
EAGE Bronze/Silver/Gold Member ^{1,5}	€ 295	€ 355
EAGE Platinum Member ^{1,5}	€ 295	€ 295
EAGE Retired Member	€ 155	€ 215
Non-member ³	€ 395	€ 455
EAGE Student Green Member ^{1,2,5}	€ 60	€ 95
EAGE Student Bronze/Silver/Gold Member ^{1,2,5}	€ 50	€ 75
Student Non-member ^{2,3,4}	€ 85	€ 120

Members please note: To qualify for the member registration fee, your EAGE membership dues must have been paid and confirmed at the time of registration. The processing time for membership applications or renewals is 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 2021. This membership will be activated shortly after the event.

Student Non-members cannot be older than 34 years of age (when registering).

Green membership status gives you a € 50 discount (€ 25 for students) on the Non-member fee for each EAGE event registration; starting from the Bronze status, you can benefit from an even greater reduced EAGE member registration fee. Find here for more information on the recognition programme.

All fees are in Euros (€). One Euro of your total registration fee is donated to the EAGE Green Fund.

Please note: The deadlines are following the Local Time in the Netherlands.

EAGE reserves the right to cancel the short course(s), workshop or hackathon due to low participation. In this case, payment will be refunded in full.

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CONTACT

EAGE GeoTech 2021 is organized by the EAGE Europe Office. For enquiries please contact the EAGE Europe office at +31 889955055 or email eage.events@eage.org For up-to-date information visit: geotech.eage.org

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