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2023 EAGE ANNUAL

84TH CONFERENCE & EXHIBITION

VIENNA | AUSTRIA

5 - 8 JUNE 2023

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SUSTAINABLE FUTURE
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Welcome to VIENNA

Welcome from the EAGE Technical Programme Officer



The Technical Programme for Vienna 2023 is built on wide variety of abstracts from the EAGE members worldwide. Over 1250 abstracts have been reviewed on quality and relevance for the EAGE members visiting the Annual. The selected programme consists of close to 830 oral presentations, spread out over 17 parallel sessions and approximately 200 poster presentations. The poster presentations are separated this year from the oral sessions, in order to give both of them their appropriate exposure. The Technical Programme is complemented by 15 high-quality workshops on Sunday, Monday and Friday. These workshops will focus on a high level of interaction between the participants and presenters.

The Technical Programme supports the theme of this year: Securing a sustainable future together. All sessions related to sustainable energy are gathered under the Energy Transition umbrella and have a dedicated room throughout the conference. In the total overview, the geophysics related papers are the largest discipline, followed by geology and reservoir engineering (including the SPE EuropEC part). The multi-disciplinary papers are grouped by Integrated Subsurface studies, Mining and Infrastructure and Data/Computer Science/Machine Learning, and represent approximately a fifth of the papers. In addition, there are also 13 dedicated sessions, mainly initiated by the Technical Communities in the EAGE.

I would like to thank all the hundreds of members who have reviewed all the submitted abstracts and the selection team, who has built the Technical Programme based on these reviews. I would also like to thank up front all session chairs for their contributions to facilitate the Q&A and to make it possible to run all parallel sessions smoothly.

Aart-Jan van Wijngaarden

Leader Subsurface Work Processes, Equinor ASA
EAGE Technical Programme Officer

Welcome from the SPE EuropEC Programme Chair



A sustainable future together can only be secured by adapting to the challenges and navigating with technologies especially designed to shape the energy landscape. Working towards the energy transition is a challenge for our industry that needs innovation and ingenuity in many areas.

The 2023 SPE EuropEC programme showcases the best subsurface geoscience and engineering innovation with a focus on technologies that contribute to our future energy mix.

Dedicated topic areas include: *capture and storage of fluids; extraction of heat and materials; sustainability in the energy industry and NetZero energy economics; carbon efficient reservoir management; machine learning, AI and digitisation; as well as topics covering CCS, CCUS, hydrogen storage and brine extraction.*

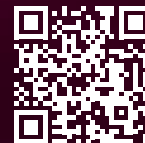
As Programme Committee Chair, and alongside the rest of the Conference Committee, we look forward to welcoming you to Vienna and sharing our knowledge, expertise and technical innovations.

Liebe grüße aus Wien,

Rafael E. Hincapie

Head of Department Subsurface Technologies, OMV E&P
SPE EuropEC 2023 Conference Chair

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Tuesday 6 June | Oral presentations

Last updated 30 May

ROOM SCHUBERT 1		ROOM SCHUBERT 2		ROOM SCHUBERT 4	
Capture, Utilization and Storage of Fluids in the Subsurface I (SPE) Chairpersons: R. Balch (New Mexico Tech), C. Coll (CGG)		Machine Learning, AI, and Digitisation for More Efficient Operations (Joint EAGE/SPE) Chairperson: R.E. Hincapie (OMV Exploration & Production GmbH)		Geology - Carbonates & Evaporites Chairperson: M. Mufti (University of Potsdam)	
08:30	The Role of Diffusion on the Reservoir Performance in Underground Hydrogen Storage - T. Clemens (OMV Energy)	08:30	Applying Machine Learning to Minimize Wireline Formation Testing Failures in Thin Laminated Sands - M. Fayzullin (OMV)	08:30	Caprock and Depth of Ceiling Impact on Gravity Signal Strength from Salt Diapirs - J. Mrlina (Institute of Geophysics CAS)
08:50	Fluid Modeling of Underground Hydrogen Storage in a Depleted Natural Gas Field - M. Nielsen (Whitson AS)	08:50	Machine Learning Based Prediction of Pressure Drop, Liquid-holdup and Flow Pattern in Multiphase Flows - A. Tyagi (Shell India Markets Pvt. Ltd.)	08:50	Kungurian salt formation of the North Caspian basin, Kazakhstan - N. Karamurziyev (Kazakh-British Technical University)
09:10	Investigation of Subsurface Integrity of Depleted Porous Gas Reservoirs for the Purpose of Hydrogen Storage - A. Andiappan (RAG Austria AG)	09:10	Machine-learning Based Selection of Candidate Wells for Extended Shut-in Due to Fluctuating Oil Prices - B. Lobut (Istanbul Technical University)	09:10	Seismic characterization of an ultra-deep carbonate reservoir in the Shunbei oilfield, Tarim Basin, northwest China - X. Dong (Imperial College London)
09:30	Intercept Method for Accurately Estimating Critical Fluid Saturation and Approximate Transient Solutions With Production Time Scales - P.O. Andersen (University of Stavanger)	09:30	Flow-based Upscaling of Fractured Porous Media Using a Discrete Fracture and Matrix Model and a - C. Maier (University of Campinas)	09:30	Knowledge progress on carbonate heterogeneity and its impacts on operation efficiency - B. Medvedev (SLB)
09:50	Coffee break				
10:10	Durability of Polymer-based Wellbore Sealants in a Corrosive Environment - J. Todorovic (SINTEF Industry)	10:10	Sand Production and Control Benchmarking through Unstructured Data Analysis with Machine Learning in the North Sea - T. Looi (Iraya Energies Sdn Bhd)	10:10	Integrated core-scale volumetric analysis: a Precambrian carbonates case study - J. Emmings (CGG)
10:30	A Comparative Study of Hydrogen/Natural Gas Storage in a Depleted Gas Field in the Netherlands Using - H. Yousefi (TNO)	10:30	Real-Time Detection of Sand Production Event by Application of Machine Learning Techniques - E. Abilov (Eilink Research And Development Center)	10:30	Characteristics and Origin of Bioclastic Limestone Reservoir in Lagoon of Mishrif Formation - F. Li (Research Institute Of Petroleum Exploration and Development)
10:50	Numerical Models for Upscaling of Caprock Properties From Small Sample Laboratory Testing - P. Cerasi (SINTEF Industry)	10:50	How Can Hybrid Physics and AI/ML Analysis of Formation Evaluation Data Benefit Reservoir Navigation? - C. Saint (Baker Hughes)	10:50	Dolomitization Model of Pelletoid of Arab C Formation in Southern Arabian Gulf - F. Li (Research Institute of Petroleum Exploration & Development, Petrochina)
		11:10	Combining machine learning and game theory for forecasting production capacity and influence factors analysis - M. Yue (University Of Science And Technology Beijing)	11:10	Features and recognition of the maximum flooding surface in carbonate ramp sequence - N. Li (Research Institute of Petroleum Exploration & Development, Petrochina)
11:30	Break				
13:45	Poster Sessions				
Capture, Utilization and Storage of Fluids in the Subsurface II (SPE) Chairpersons: F. Verga (Politecnico di Torino), T. Yang (Equinor)		Net Zero Energy Economics and Sustainability (Joint EAGE/SPE) Chairpersons: B. Moradi (Three60 Energy Norway AS), B. Stewart (Independent)		Definition and Prediction of Depositional Environments Chairperson: L.G. Klefsstad (Norwegian Petroleum Directorate)	
14:45	Analytical Modeling of How Capillary End Effects Impact Time Scale and Transient Data During Steady State - P.O. Andersen (University of Stavanger)	14:45	Modelling of Hydraulic Fracturing Risk on Cement Sheath Integrity - P. Cerasi (SINTEF Industry)	14:45	Detailed sequence stratigraphy and Gross Depositional Environment mapping of the offshore Nova Scotia Margin - P. Jermannaud (Beicip Franlab)
15:05	Long-term Integrity of Well Cements for CO2-storage Through Self-healing Capabilities - Test Development - R. van Noort (IFE Institutt for Energiteknikk)	15:05	Electric Submersible Generators - Using ESPs in an Unfamiliar Way - C. Collins (Baker Hughes)	15:05	Enhanced regional imaging of Late Jurassic depositional systems across the Northern Viking Graben, Norwegian North Sea - J. Mann-Kalil (CGG)
15:25	Tracer-based Monitoring of P&A in Offshore Fields - M. Silva (Institute for Energy Technology)	15:25	Development of a Deterministic Total Organic Carbon (TOC) Predictor for Shale Reservoirs - M. Khan (SLB)	15:25	Outcrop Characterization, Seismic and Geological Modelling of Sand Injection Complexes - G. Zvirtes (University of Aberdeen)
15:45	Rapid Time-lapse Monitoring of Geological Carbon Storage - S. Misra (Texas A&M University)	15:45	Potential of Deep Eutectic Solvents in the Upstream Oil and Gas Industry - Z. Hamdi (Heriot-Watt University)	15:45	A novel channel system and dome north of Shetland in the southern Møre Basin - B. Manton (VBER)
16:05	Coffee break				
16:25	Flow-through Experiments of Reactive Ba-Sr-Mg Brines in Mons Chalk at North Sea Reservoir Temperature at Different - P.O. Andersen (University of Stavanger)	16:25	Multiple Medium Integrated Modeling Technology for Carbonate-Based Underground Gas Storage - Y. Ma (BGP CNPC)	16:25	Paleoenvironmental changes in Upper Cretaceous formations in the Polish segment of the Carpathian Foreland - A. Kwietniak (AGH - University of Science and Technology)
16:45	Viscoplastic Deformation During CO2 Storage in Danish Chalk Reservoirs: Role of Petrophysical Heterogeneity and Mechanical Alteration - F. Amour (DTU Offshore)	16:45	Three-phase flow reservoir simulation approximation and acceleration using U-shaped Fourier neural operator (U-FNO) - V. Bulatov (Independent Researchers)	16:45	Prediction of reservoirs formed in different depositional settings based on seismic data and elastic properties analysis - B. Lavrnja (NTC NIS-NAFTAGAS LLC NOVI SAD)
17:05	Role of the Hydromechanical Properties of Fault on Fluid Injection-induced Seismicity with Rate-and-state Dependent Friction Model - T. Ma (DTU Offshore)	17:05	Rock Model Generation and its classification using Deep Learning Method - A. Shukla (Indian Institute Of Technology (Indian School Of Mines) Dhanbad Dhanbad)		
17:25	Dynamic CO2 Storage Capacity for a Fault-bounded Structure in the Trøndelag Platform, Offshore Mid-Norway - S.S. Abdelkareem (TU Clausthal/Equinor)				

Technical Programme

Tuesday 6 June | Oral presentations

Last updated 30 May

ROOM SCHUBERT 5		ROOM SCHUBERT 6		ROOM STOLTZ 1	
Petrophysics & Core Data - 1 Chairpersons: M.N.A. Akbar (MOL Hungary), F. Anifowose (Saudi Aramco)		EM and Potential Field Studies Chairpersons: L.D. Masnagheffi (SLB), M. Speziali (SLB)		Environmental and Economic Impact of CCS Chairpersons: E. Bloem (Norwegian Institute of Bioeconomy Research), P. Hanssen (Equinor)	
08:30	Determination of oil content for medium-high maturity shale - M. Li (School of Geosciences, China University of Petroleum)	08:30	Shaping geobodies by joint inversion of CSEM and gravity data with a modular framework - P. Smilde (TERRASYS Geophysics GmbH & Co. KG)	08:30	Dust as a driver for climate change - I. van Waveren (Naturalis)
08:50	Research on NMR Relaxation Mechanism of Movable Oil in Shale - C. Xu (China University of Petroleum)	08:50	Joint inversion of gravity gradiometry and magnetic data in the Barents Sea using the probabilistic Gramian - M. Jorgensen (CEMI, University of Utah)	08:50	Workflow of human induced seismicity causal analysis of geo-energy related operations - A. Savvaadis (The University of Texas at Austin)
09:10	Calibrating log-derived UCS profiles in a limestone-shale formation using Equotip non-destructive strength testing - W. Hujer (OMV Energy, Tech Center & Lab - Core & Cutting Technologies)	09:10	The Mediterranean Sea Crust from Potential Field Data, Results from the XORN Project - D. Sampietro (Geomatics Research & Development s.r.l.)	09:10	Advanced Technologies for Recovering Flared Gas at Petroleum Development Oman South Fields - S. Al Humaimi (Petroleum Development Oman)
09:30	Fluid inclusion salinity as proxy for formation water salinity in gas reservoirs: Pannonian Basin, Hungary - G. Mallarino (MOL Group)	09:30	Interpretation of Airborne Gravity Gradiometer (AGG), and Magnetic Data in the Cuvette Basin (Republic of Congo) - A. Mantilla-Pimiento (Xcalibur Multiphysics)	09:30	Mitigation of CO2 Emissions from Marine Seismic Surveys via Drag Reduction and Digital Transformation Initiatives - S. Olsen (PGS)
09:50	Coffee break				
10:10	Using Denoising Diffusion Probabilistic Models Generating Geological Rock Thin Section And Well Core Images - R. Perez (University Of Vienna)	10:10	Delineation of thrust-fault locations and structural setup using positive curvature and Cos (θ) analysis of gravity data - G.K. Ghosh (Oil India Limited)	10:10	Energy Transition with Dimethyl Ether (An Alternative Fuel to Diesel) to minimise the Environmental Impact - H.R. Nasirani (University of Central Lancashire)
10:30	Microstructure and pore content analysis of a permafrost core by X-ray microtomography - B. Giroux (Institut national de la recherche scientifique)	10:30	Applicability of surface-to-borehole EM to CO2 storage monitoring in the North Sea setting - J. Park (NGI)	10:30	Oil and gas industry: environmental and sustainability in the energy transition to net-zero - S. López Kovács (Repsol Exploracion)
10:50	Delineation and Evaluation of Low-permeable and Low-resistivity Clastic Reservoirs of Brown Oilfields in Western Siberia - E. Shivalyuk	10:50	Electromagnetic effect of steel well casings in reservoir monitoring: 3D numerical simulations and field data verification - Y. Hu (Southern University of Science and Technology)	10:50	Joint European research for the successful development of after-use concepts in former coal mining regions - J. Tiganj (Research Center of Post-Mining at the THGA University)
11:10	Mass-Balance Analysis of Tracer Breakthrough in Heterogeneous Carbonate Rock - M. Yutkin (King Abdullah University of Science and Technology)	11:10	Application of semi-airborne transient electromagnetic 3D inversion in tunnel investigation - B. Ouyang (Southern University Of Science And Technology)		
11:30	Break				
13:45	Poster Sessions				
Petrophysics & Core Data - 2 Chairpersons: C. Tarchiani (Eni S.p.A.), M. Yutkin (King Abdullah University of Science and Technology)		Non-Seismic Methods Chairperson: A. Mantilla-Pimiento (XCalibur Multiphysics)		Future of Basin Modelling in the Energy Transition - 2 (Dedicated Session) Chairpersons: P. Wygrala (Geological Advisor), T. Hantschel (Terrania GmbH)	
14:45	Construction of porous model using equivalent pore aspect ratio distribution function - G. Wang (China University of Petroleum (Beijing))	14:45	An isotropic double-solid-matrix model for sediments hosting nodule and chunk-like gas hydrate - X. Zhu (China University Of Geosciences Beijing)	14:45	Basin Modelling as a de-risking tool for Deep Geothermal Exploration: case studies from Switzerland. - A. Mascariello (University of Geneva)
15:05	Predictions of Relative Permeability and Fractional Flow on Log Scale – Pilot Projects Results - G. Burmester (OMV)	15:05	Anisotropic elastic properties of montmorillonite with different layer charge locations and densities by molecular dynamic simulation - X. Wang (China University of Petroleum)	15:05	An isenthalpic formulation for simulating geothermal systems with phase changes - O. Duran (Matematisk institutt)
15:25	Dual LWD Imaging to Characterize Complex Geology: A New Approach amidst Difficult Drilling Conditions - L. Martinez (SLB)	15:25	A Real-Time Slowness Picking and Tracking Method for Borehole Acoustic Logging - X. Sun (CNPC)	15:25	Minerals System Approach to Sedimentary Rock-hosted Mineral Deposits: An Example from the Limerick Basin, Ireland - A. Melo (iCIRAG, School of Earth Sciences, University College Dublin)
15:45	Morphological detection and rule-based classification of natural fracture systems in borehole image logs - M.T. Galli (Eni S.p.A.)	15:45	Nuclear Magnetic Resonance Data Denoising Based on EMD-SVD method - Y. Zhao (China University Of Petroleum)	15:45	Mineral System Modelling of Base Metal Systems - Key Challenges and Opportunities - D. Palmowski (Terranta GmbH)
16:05	Coffee break				
				Characterization of Geological Risks in Geothermal Projects (Dedicated Session) Chairpersons: J. Schoenherr (ExxonMobil), S. Kuchling (DGMR)	
16:25	Anisotropy measurement and its influencing factors analysis of lacustrine shale - W. Tan (Sinopec Geophysical Research Institute)	16:25	Towards Real-Time 3D Modeling of Induction Logs Using an Integral Equation Method - D.H. Saputera (University Of Bergen)	16:25	Probabilistic risk and value assessment transferred from E&P to geothermal applications - G. Hollmann (ONEO)
16:45	Outlier Identification and Log Reconstruction Using Deep Learning - V. Simoes (SLB)	16:45	Sensitivity patterns for features of MT response functions and their application to inversion - J. Uhm (Seoul National University)	16:45	Static subsurface risk assessment of geothermal projects - G. Stern (OMV E&P GmbH)
17:05	A PROPOSED SOLUTION TO RESOLVE THE TOTAL AND EFFECTIVE POROSITY APPROACHES TO WATER SATURATION - S. Calvert (CGG)	17:05	Time-Lapse Marine CSEM Modeling in the Frame of Linear and Non-Linear Approximations - M. Bayat (University College Dublin)	17:05	Risk management of induced seismicity in the life cycle of a hydro-geothermal heating plant in an urban area - D. Bohnsack (SWM - Stadtwerke München, Erneuerbare Energien, Umsetzung Geothermie)
17:25	Seismic attenuation and dispersion in fluid saturated fractured porous media: A numerical upscaling simulation study - Y.-X. He (China University of Petroleum (Beijing))	17:25	Three Dimensional P-wave Model of the Shallow Crustal Structure in DehDasht, Zagros, SW Iran - N. Shakeri (Research Institute of Petroleum Industry)	17:25	Green field exploration in the Aachen-Weisweiler region, Germany: Constraints and concepts for uncertainty and risk assessment - O. Ritzmann (Fraunhofer IEG, Fraunhofer Research Institution for Energy Infrastructures and Geothermal Systems IEG)

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Tuesday 6 June | Oral presentations

Last updated 30 May

ROOM STOLTZ 2		ROOM LEHAR 1		ROOM LEHAR 2	
CCS Monitoring Chairpersons: A. Laake (SLB), L. Eisner (Seismik s.r.o.)		Time-lapse (4D) imaging Chairpersons: A. Guiffon (TotalEnergies E&P Research and Technology, Houston), S. Pannetier Lescoffit (Equinor ASA)		FWI: Theory 2 & Uncertainty Chairpersons: R.E. Plessix (Shell Global Solutions International BV), P.R. Williamson (Total Energies)	
08:30	Time-lapse monitoring using a permanent source ACROSS and surface-buried geophones at the Aquistore CO2 storage site. - H. Shimizu (JOGMEC)	08:30	Johan Sverdrup - application of advanced seismic imaging and modelling to reduce uncertainty in reservoir monitoring - E. Sadikhov (Equinor ASA)	08:30	Quantifying seismic structural uncertainty associated with complex near-surface: SEAM Arid model example - I. Silvestrov (Saudi Aramco)
08:50	Is 4D seismic monitoring of CCS in abandoned North Sea reservoirs effective? - S.Y. Toh (Heriot-Watt University)	08:50	Joint Inversion and Segmentation of the 4D Sleipner Seismic Dataset - J. Romero (King Abdullah University Of Science And Technology)	08:50	Estimating large-scale uncertainty in the context of full-waveform inversion - W. Mulder (Shell Global Solutions International BV, Delft University of Technology)
09:10	Tracking CO2 plumes via time-lapse pressure tomography - J. Gunning (CSIRO Energy)	09:10	Proving the potential; monitoring Sleipner-CO2 plume with mini-streamers - R. Dehghan-Niri (Equinor Energy AS)	09:10	3D Probabilistic Full Waveform Inversion: Application to Gulf of Mexico Field Data - A. Lomas (bp)
09:30	Simultaneous prediction of reservoir multi-parameters for CO2 plume detection - D. Li (University of Science and Technology Beijing, China University Of Mining And Technology)	09:30	Enhancing pre-salt 4D monitoring, a deep-water Angolan WATS case study - P. Gourmel (CGG)	09:30	Frugal uncertainty analysis for full waveform inversion - M. Izzatullah (King Abdullah University of Science and Technology)
09:50 Coffee break					
10:10	The importance of 4D petro-elastic models to the geophysical monitoring of CO2 storage. - D. Rappin (TotalEnergies)	10:10	4D FWI with short offset data: a reflection oriented approach - F.A. Fachtony (Univ. Grenoble Alpes, ISTerre)	10:10	A precondition strategy for conjugate gradient algorithm in elastic full waveform inversion - S. Zang (Research Institute of Petroleum Exploration & Development-Northwest, NWGI, PetroChina)
10:30	Diving-wave time-lapse analysis for CO2 multi-layer detection - R. Martinez (Norwegian University of Science and Technology, Center for Geophysical Forecasting)	10:30	Time-lapse FWI to improve understanding of superimposed reservoirs in deep offshore - A. Pintus (CGG)	10:30	Joint Domain Full Waveform Inversion - L. Duan (BGP)
10:50	Time-lapse seismic analysis using ACROSS source and DAS at the Aquistore CO2 storage site - Y. Kitawaki (JOGMEC)	10:50	Time-lapse velocity changes revealed with joint 4D full waveform inversion - E. Saragoussi (SLB)	10:50	Enhanced template matching full-waveform inversion - X. Cheng (SLB)
		11:10	Time-Lapse FWI for North Sea deep Culzean reservoir monitoring - I. Espin (CGG)	11:10	Full waveform inversion by adaptive Tikhonov-Total variation regularization - K. Aghazade (Institute of Geophysics, University of Tehran)
11:30 Break					
13:45 Poster Sessions					
CCS Screening Chairpersons: A. Martinez (ExxonMobil), B. Giroux (Institut National de la Recherche Scientifique)		Modelling Chairpersons: S. Abolhassani (TU DELFT), Y. Wang (Imperial College London)		FWI: Case Studies 1 Chairpersons: D. Donno (CGG), O. Zdraveva (SLB)	
14:45	Regional geological criteria for CO2 sequestration site portfolio development - S. Stewart (Saudi Aramco)	14:45	Generalized recursive convolution method for viscoelastic wave modelling - C. Jin (Khalifa University)	14:45	Using full waveform inversion with limited-offset seismic data to improve pre-salt imaging in the Kwanza basin - A. Cooke (SLB)
		15:05	Elastodynamic Full Wavefield Modelling with Legendre Polynomials - J. van der Neut (Delft University of Technology)	15:05	Hybrid Streamer/Sparse node acquisition: Unlocking new targets below Base Cretaceous Unconformity with Elastic and High-Resolution FWI - S. Masclet (CGG)
15:25	Assessing the Feasibility of Carbon Capture and Storage Potential in Lithuanian Geological Formations: A Simulation-based Assessment - S. Malik (KTU)	15:25	Numerical Modelling of Asymmetric Elastic Wave Equations based on the Modified Couple Stress Theory - H. Liu (Institute of Geology and Geophysics (CAS))	15:25	Illuminating Green Canyon, Gulf of Mexico, through sparse node and full-waveform inversion - K. Glaccum (SLB)
15:45	Double funnel approach for screening of potential CO2 storage opportunities in the Norwegian Continental Shelf - T. Looi (Iraya Energies Sdn Bhd)	15:45	A 3D fast decoupled operator for anisotropic P/S wavefield decomposition for elastic reverse time migration - L. Zhang (China University Of Petroleum-beijing)	15:45	50Hz high resolution land FWI: a case study in the Carpathian foothills - A. Meffre (CGG)
16:05 Coffee break					
16:25	Unsupervised AI integration toward an efficient timeline reduction in a successful CCUS planning process. - B. Laugier (Seisnetics-Scolty Energy Consulting)	16:25	An unsplit perfectly matched layer for second-order heterogeneous time-domain elastic wave equation - A. Rezaei Nevisi (University of Tehran)	16:25	Improved Sub-Messinian Seismic Imaging Using A Multi-Step FWI Velocity Model Workflow - D. Lawrance (bp)
16:45	Basin analysis for assessing pressure, temperature and hydrodynamics in a regional carbon dioxide storage screening project. - J.F. Derks (SLB)	16:45	Simulation of a wavefield in VTI media adopting an acoustic-elastic coupled equation - B. Zhang (China University Of Petroleum)	16:45	The road to 200Hz FWI using hybrid streamer and node acquisition over Nordkapp - L. Janot (CGG)
17:05	Data-Driven Reservoir Screening and Ranking for CCUS in the Gulf of Mexico Depleted Fields - F. Olowu (CGG)	17:05	Fast integral equation method for microseismic wavefield modelling in anisotropic elastic media. - U. Shekhar (University Of Bergen)	17:05	Time-domain FWI of full azimuth OBN data from offshore North West Australia - S. Sambolian (Université Grenoble Alpes)
		17:25	A parallel iterative solver for 3-D frequency-domain seismic wave modeling in viscoelastic anisotropic media - G. Ma (Khalifa University of Science and Technology)		

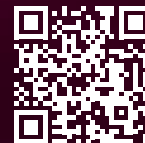
Technical Programme

Tuesday 6 June | Oral presentations

Last updated 30 May

ROOM LEHAR 3		ROOM LEHAR 4		ROOM LEHAR 5	
Machine Learning for Structural Interpretation Chairpersons: V. Aarre Madsen (SLB), M. Sarjaarvi (SLB)		Future of Basin Modelling in the Energy Transition - 1 (Dedicated Session) Chairpersons: P. Wygrala (Geological Advisor), T. Hantschel (Terranta GmbH)		Multiples: Removal and Deconvolution Chairpersons: L. Casasanta (Shearwater Geoservices), A. Alfaraj (Delft University Of Technology)	
08:30	Bayesian Integrated Reservoir Characterization, BIRCh, and its application to the Raven Field - P. Paramo (bp)	08:30	Applications of Basin Modelling for the Energy Transition Subsurface Challenges - G. Pérez-Drago (Beicip-Franlab)	08:30	True-amplitude multiple prediction in sparse ocean-bottom acquisitions using a multidimensional deconvolution approach - D. Boiero (SLB)
08:50	A Fractal Dimension-Gutenberg Richer Analysis for the Decatur Open-Source Seismicity Catalogue - C. Pavez-Orrego (Sintef Industry)	08:50	Improvements in Atypical Petroleum System Modelling in Parnaíba Basin, NE Brazil. - E. De Mio (Eneva, Universidade Federal do Paraná)	08:50	Solving multi-dimensional deconvolution via a nuclear-norm regularized least-squares approach - F. Chen (King Abdullah University of Science & Technology)
09:10	A Comparison of Poststack Seismic Denoising: Deep Learning Vs. Structure-oriented Filtering - B. Zhang (The University of Alabama, Imperial College London)	09:10	Basin modeling: a new bottom-up approach to estimate natural offshore methane emissions - M. Torelli (TotalEnergies SE)	09:10	Multidimensional deconvolution using physics-driven prior-based rank-minimization for sparser acquisition - R. Kumar (SLB)
09:30	Intelligent seismic horizon picking based on Gabor wavelet transform of seismic attribute - R. Xiong (Southwest Petroleum University, Petrochina Hangzhou Research Institute of Geology)	09:30	Applying basin modelling to CO2 storage challenges: Insights to plume migration controls and storage site feasibility - F. Rodriguez Monreal (Halliburton)	09:30	Wave-equation deconvolution for angle-dependent reflectivity and internal multiple prediction - G. Poole (CGG)
09:50 Coffee break					
10:10	Semi-supervised horizon tracking by using convolutional neural network - R. He (Research Institute Of Petroleum Exploration & Development-Northwest (NWGI), Petrochina)	10:10	Thermo-hydro-mechanical basin modeling for CCUS - A. Lemgruber Traby (IFPEN)	10:10	Deep Diffusion Models for Multiple Removal - R. Durall (Fraunhofer ITWM)
10:30	Using 3D CNN Fault Segmentation to Improve Structural Knowledge in Groningen Field - R. Perez (University Of Vienna)	10:30	Carbon storage site selection in aquifers: scalable dynamic and static methods at basin to local scale - J.C. Hidalgo (SLB)	10:30	Seismic demultiple with deep learning - M. Fernandez (Fraunhofer ITWM, Ecole Normale Supérieure)
10:50	Multi-Survey Assisted Horizon Interpretation using Graph based Optimization - G. Baines (Halliburton)	10:50	Leveraging high-resolution basin and reservoir modeling for CCUS and geothermal potential screening, Middle Magdalena Valley, Colombia - S.B. Daher (Beicip-franlab)	10:50	Internal Multiple Suppression Using a Physics-Constrained Deep Neural Network - K. Wang (Peking University)
11:10	Understanding the pre-salt of Santos basin, Brazil using machine learning seismic interpretation on faults and horizons - D.F. Fernandez (SLB)			11:10	Multiple attenuation for marine streamer data using adaptive subtraction in the 3D curvelet domain - Y. Ren (TGS)
11:30 Break					
13:45 Poster Sessions					
Machine Learning for Lithology Prediction Chairpersons: K. Osyrov (Halliburton), V. Aarre Madsen (SLB)		Exploration of the Moon, Mars and Beyond Using Geophysical Methods (Dedicated Session) Chairpersons: J.O.A. Robertsson (ETH), S. Stähler (ETH Zurich)		Time-lapse Seismic and OBN Chairpersons: M. Berraki (EQUINOR), S.N. Baldock (TGS)	
14:45	S-Wave Velocity Prediction for Fractured Limestone Reservoirs Based on DNN - G. Feng (NWGI, PetroChina)	14:45	Exploring the planets (and other celestial bodies): What is the role of applied geoscience? - R. Stewart* (University of Houston)	14:45	Reflected wave enhancement using a single trace and a projection model: application to focused monitoring - H. Al Khatib (SpotLight)
15:05	Multi-attribute Deep Learning Using Wavelet Scattering Transform for Seismic Lithology Interpretation - G. Meiqian (Xi'an Jiaotong University)			15:05	4D deghosting of multi-sensor streamer datasets from offshore Guyana - W. Zhao (CGG)
15:25	Lithology Identification Based on Deep Neural Network and Theoretical Rock Physics Modeling - G. Feng (NWGI, PetroChina)			15:25	Application of pre-stack time-shift analysis to maximize the value of 4D seismic data - M. Hatab (Heriot-Watt University)
15:45	A Machine Learning Enabled Workflow for Efficient Channel Detection from Seismic Data - G. Baines (Halliburton)	15:45	Seismic near-surface investigations at the InSight landing site - S. Stähler (ETH Zurich)	15:45	Multiyear processing improvements to a 10 day delivery. The Edvard Grieg PP and PS 4D story. - F. Twynam (SLB)
16:05 Coffee break					
16:25	A generalized U-Net for injectite detection - O. Sancheti (CGG)	16:25	Space Resources and a New Age of Lunar Exploration - V. Stamenkovic (Blue Origin)	16:25	Overcoming 4D repeatability challenges from mixed acquisition systems - I. Holmedal (CGG)
16:45	Efficient Seismic Facies Classification Using Transformer-based Masked Autoencoders - M. Alfarhan (King Abdullah University Of Science And Technology)			16:45	Overcoming repeatability challenges: a time-lapse ocean-bottom node study offshore Nigeria - D. Scapin (SLB)
17:05	Learnable Gabor kernels in convolutional neural networks for seismic facies classification - F. Wang (King Abdullah University of Science and Technology)	17:05	Geophysical Exploration of the Dynamics and Evolution of the Solar System (GEODES) - N. Schmerr (University Of Maryland)	17:05	Key techniques of OBN data processing and applications in China's Offshore - J. Wang (CN00C)
17:25	A lightweight semi-supervised learning reservoir lithology prediction method - L. Song (China University of Petroleum (HuaDong))	17:25	Cryptwin – Digital infrastructure for virtually-assisted preparation and analysis of cryo-robotic exploration missions - J. Kowalski (RWTH Aachen University)	17:25	Revisiting Rosebank OBN - Contemporary processing and imaging techniques enable new insights from heritage data - F. Sokolowski (SLB)

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Tuesday 6 June | Oral presentations

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ROOM STRAUSS 1		DOME 1		DOME 2	
Seismic Processing Case Studies Chairperson: G. Busanello (SLB), W. Rietveld (BP)		ML for Noise Attenuation Chairpersons: D. Mondal (CMPDI (Coal India Limited)), A. Baumstein (ExxonMobil Upstream Research Company)		Flow Simulation Chairpersons: P. Samier (TotalEnergies), A. Muggeridge (Imperial College London)	
08:30	From Data Dustbin to Drill Bit: Revitalizing Vintage Seismic for the IJssel Discovery Appraisal Campaign - N. Woodburn (Rockwave)	08:30	Automatic Acquisition Footprint Attenuation: Deep Learning Approach - A. Kozhevnikov (Data Analysis Center)	08:30	Joint Optimization of Well Control and Placement Using Monte-Carlo Tree Search Based Variable selection - A. Kumar (Visage Technology)
08:50	How good is your seismic? A genetic algorithm to kickstart evaluation of CCS candidates - A. Thomas (Seisnetics)	08:50	Time-lapse seismic data deblending with deep learning - W. Hu (SLB)	08:50	Impact of Surfactant Concentration on Foamy Oil Recreation Process for Extra Heavy Oil Recovery - X. Shi (Research Institute Of Petroleum Exploration And Development)
09:10	Pre-salt internal multiple attenuation in the data domain: a 3D case study from offshore Brazil - F. Xavier de Melo (SLB)	09:10	Unsupervised learning with a soft attention mechanism for 3-D erratic and random noise attenuation - L. Yang (China University of Petroleum (Beijing))	09:10	Aquifer Basin Activity Model Based On South Caspian Basin - E. Ahmadov (SOCAR)
09:30	Efficient blind seismic impedance inversion based on a deep learning accelerated alternative iteration inversion method - G. Meiqian (Xi'an Jiaotong University)	09:30	An intelligent denoising method for removing multiple seismic noises - X. Xu (NWGI, petrochina)	09:30	High-Dimensional Bayesian Optimization using Sparse-Axis Aligned Subspaces for Joint Optimization of Well Control and Placement - A. Kumar (Visage Technology)
09:50 Coffee break					
				Reservoir Characterization 2 Chairpersons: M. Kleemeyer (Geophysics Shell International BV), H. Al-Saedi (Missouri University of Science and Technology)	
10:10	High-resolution reservoir prediction based on deep learning - Z. Liu (China University of Petroleum)	10:10	Multi-blind-trace deep learning with a hybrid loss for attenuation of trace-wise noise - M.M. Abedi (BCAM)	10:10	Characteristics and Geological Origin of High Flow Zones in Thick Bioclastic Limestone - F. Li (Petrochina)
10:30	Realistic synthetic seismograms from digital siblings: Building sharp pseudo-velocities from inverted legacy data - A.K. Evensen (Aker BP)	10:30	A modified Transformer-based network for seismic processing tasks - R. Harsuko (King Abdullah University of Science and Technology)	10:30	Characteristics and influencing factors of shale pore structure in Longmaxi Formation in south China - M.K. Khaleqi (China University Of Petroleum Beijing)
10:50	A blind spectral inversion method for seismic data - Y. Sun (China University of Petroleum Beijing)	10:50	Noise attenuation across multiple 4D seismic volumes using deep variational autoencoder - B.M. Arshin Sukar (Heriot-Watt University)	10:50	Integration of geostatistical methods and clustering analysis for the selection of representative geological cases - C. Pinheiro (Repsol Sinopec Brazil)
11:10	Active and Passive full waveform acoustic logging: a field test case - J. Mari (Sorbonne Université)	11:10	Deep learning diffraction separation for seismic and GPR data - A. Bauer (University of Hamburg)		
11:30 Break					
13:45 Poster Sessions					
Noise Attenuation Chairpersons: R. Kumar (SLB), K.R. Nunn (NunnGeo Consulting Limited)		Processing and Interpretation Chairpersons: O. Gramstad (Aker BP), F.X. de Melo (SLB)		EOR 1 Chairpersons: R. Mokhtari (Technical University of Denmark), D. Rappin (TotalEnergies)	
14:45	A deep learning seismic processing workflow through a pretraining and fine-tuning framework - R. Harsuko (King Abdullah University of Science and Technology)	14:45	Seismic data interpolation with an iterative workflow and generative adversarial networks - J. Collazos Gonzalez (Universidade Federal Do Rio Grande Do Norte)	14:45	Application of linear salt-resistant polymer to further improve the development effect of polymer flooding - G. Chen (PetroChina)
15:05	RTM image conditioning using deep learning - A. Kumar (Shearwater GeoServices)	15:05	Prior probability regularized FWI using generative diffusion models - F. Wang (King Abdullah University of Science and Technology)	15:05	Production Improvement in Gas-Condensate Reservoirs by Elimination of Condensate Blockages Through Wettability Alteration - E. Haji Bolouri (Petroleum University of Technology)
15:25	Multisensor noise attenuation with RIDNet - B. Farmani (PGS)	15:25	Multidirectional deep learning for data reconstruction - M.M. Abedi (BCAM)	15:25	Increasing oil production through EOR at the offshore Captain field - G. Johnson (Ithaca Energy UK LTD)
15:45	Time-frequency domain complex value U-Net-based spectral enhancement - Z. Li (China University Of Petroleum (Beijing))	15:45	First arrival detection of seismological data from the Middle Magdalena Valley in Colombia using a cGAN - O.M.R. Torres (Universidad Industrial De Santander)	15:45	Effect of Aging Parameters on the Wettability of Carbonate Rocks - S. Bind (Indian Institute Of Technology Kanpur)
16:05 Coffee break					
16:25	Explainable blind-spot networks for self-supervised seismic coherent noise suppression - C. Birnie (King Abdullah University of Science and Technology)	16:25	Implementation of neural style transfer to mitigate domain discrepancy in the deep learning salt interpretation - K. Osypov (Halliburton Landmark)		
16:45	Signal Preservation while performing Seismic Denoising with Neural Networks - K. Zehn (TEEC GmbH)	16:45	Automatic joint interpretation of horizons and faults using G&G logic on top of Seismic Tiles - Ø.M. Skjæveland (Equinor)	16:45	High-resolution prediction of reservoir parameters based on seismic band extension via progressive learning network - D. Li (University of Science and Technology Beijing)
17:05	Application of improved anisotropic diffusion filtering in seismic data denoising - Z. Nie (Tongji University)	17:05	Seismic data interpolation using an anti-over-fitting mixed-scale dense convolutional neural network - D. Zhang (Delft University of Technology)	17:05	Experimental Investigation of Recovery Performance of Different Gases in a Tight Lower-Cretaceous Danish North Sea Reservoir - A. Taleai (DTU)
17:25	Seismic source-generated harmonic distortions: use them or lose them? - J. Yoo (Aramco Overseas Company)	17:25	Automated decision making and guided QC for full-waveform inversion - D. Halliday (SLB)	17:25	Machine Learning For Improved Characterization of the Yamama Reservoir In A ME Gas Field - W. Al-Mudhafar (Basrah Oil Company)

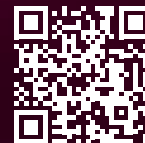
Technical Programme

Tuesday 6 June | Oral presentations

Last updated 30 May

DOME 3		DOME 4	
EOR 2 Chairpersons: G. Michaud (Monitoring Consulting), E. Ranaee (Politecnico di Milano)		Geophysical Applications for Infrastructure, Bedrock Mapping and Hydrogeochemical Investigations Chairpersons: D. Orlowsky (DMT GmbH), J.M. Singer (Fugro Technology BV)	
08:30	Experimental study of immiscible fluid displacement in porous media by applying of surfactant water flooding - D. Kerimbekova (Université de Lorraine)	08:30	Innovative geophysical investigations of railroad infrastructure using discrete sensors and fiber optics - O. Valishin (Sercel)
08:50	Investigation into the Improvement of Condensate Recovery in Gas Condensate fields by Gas Injection - H.R. Nasriani (University of Central Lancashire)	08:50	Hydrogeochemical Characteristics of Raw Water Supply in Abandoned Tin Mine of Phuket Island, Southern Thailand - W. Ngansom (Ramkhamhaeng University)
09:10	Study on the capillary diameter in Gas Hydrate Reservoir Sediments Based on CT Scanning - T. Zhao (Chinese Academy of Geological Sciences, China University of Geosciences Beijing)	09:10	A multi-geophysical data integration framework guided by petrophysics to improve bedrock map of Limerick Basin, Ireland - P. Chakraborti (University College Dublin; SFI iCRAG)
09:30	Simulation Analysis of Oil Recovery by Imbibition and Gravity Drainage in a Single-Block with Surrounding Fracture - N. Nikmardan (Dana energy)	09:30	Establishing a baseline multi-component reflection seismic imaging of iron-oxide deposits at Ludvika mines, central Sweden - M. Markovic (Uppsala University)
09:50	Coffee break	Advances in Digital Rock Physics (Dedicated Session) Chairperson: Y. Wu (China University Of Petroleum), A.-M. Wulff (Independent)	
10:10	Characterizing Carbonate Rock Wettability by Washburn Contact Angle Method with Surfactants - Z. Qi (Aramco Beijing Research Center)	10:10	Deep Learning for Accurate Prediction of Physical Properties of Heterogeneous Digital Rocks - Y. Wu (China University Of Petroleum)
10:30	Polyacrylamide/Acrylate in sea water for EOR – Viscosity and corrosion behaviour of steel in turbulent conditions - C. Boissy (MECM)	10:30	Numerical simulation of seismic wave attenuation effects altered by hydraulic fracturing - W. Deng (China University of Petroleum)
10:50	Role of rock material on low salinity waterflooding investigations in chalk reservoirs - R. Mokhtari (DTU)	10:50	Application of Digital Rocks Technology to Carbon Storage: Greensand Project Case Study - A. Forgden (Wintershall Dea Technology & Service Center)
11:10	Cyclical Polymer Injection Modelling in a Naturally Fractured Carbonate with a High-Resolution Two-dimensional Discrete Fracture Network - D. Corbo (Ad Terra Energy)		
11:30	Break		
13:45	Poster Sessions		
Work-overs		Risk Assessment of Geohazards: Multidisciplinary Novel Approaches and Technologies (Dedicated Session) Chairpersons: O.M. Ivanik (Taras Shevchenko National University of Kyiv), D. Rovetta (Aramco Overseas Company BV)	
14:45	3D numerical modelling of insert-rock interaction and piston-bit-rock interaction in percussive drilling using FDEM - X. Yang (Imperial College London)	14:45	Simulation of geomorphic mass flows: recent advances of the open-source simulation framework ravaflow - M. Mergili (University of Graz)
		15:05	Local forecasting of landslide hazard within the sites of historical and cultural heritage in Kyiv, Ukraine - K. Hadiatska (Taras Shevchenko National University of Kyiv)
15:25	Innovative Intermittent Gas Lift Technology for Optimizing Production Using IoT Based Intelligent Autonomous Controller - H. Tyagi (Weatherford International)	15:25	Identification of potential landslides hazards at the regional and local scale: main principles and approaches - O. Ivanik (Taras Shevchenko National University of Kyiv; University of Lorraine)
15:45	A Non-intrusive Production Optimization Technology for Surveillance of Oil Wells - H. Tyagi (Weatherford International)		
16:05	Coffee break		
16:25	Well Integrity Evaluation Using Noise and Temperature Logs - S. Kord (Petroleum University Of Technology)	16:45	Geophysical methods in geohazards assessment for precision agriculture. Case study from Ukraine - O. Ivanik (Taras Shevchenko National University of Kyiv)
16:45	Advanced Ultrasonic technology measuring annulus thickness and detecting formation collapse on casing - F. Ahmad (Kuwait Oil Company)	17:05	Class-A prediction of debris flow impact against rigid obstacles - Y. Wang (Institute of Geotechnical Engineering, University of Natural Resources and Life Sciences)
17:05	Imaging of cased-hole structures using reverse time migration based on ultrasonic pitch-catch measurements - M. Li (Xi'an Shiyou University)	17:25	PostMinQuake: Analysis of Post-Mining Seismic Activity in Hard Coal Mines in Germany Related to Groundwater Level - P. Primo Doncel (Technische Hochschule Georg Agricola)
17:25	Development And Performance Evaluation Of Novel High-Density Clean Packer And Completion Fluid For Hph Petroleum Reservoirs - R. Singh (IIT Madras)		

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Tuesday 6 June | Poster presentations

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STOLZ FOYER

Poster: Geothermal, Greenhouse Gas and non-HC exploration

- 13:45** Quantifying fugitive methane emissions in Queensland, Australia - S. Hoerning (University of Queensland)
- Feasibility of waste heat storage in flooded coal mines - A. Perez Silva (The University Of Edinburgh)
- Repurposing Legacy Boreholes for Microseismic Monitoring: Geothermal Case Study from Cornwall, UK - A. Butcher (University of Bristol)
- Future Energy: Imaging hidden lithium-rich brines with satellite imagery - A. Baines (CGG Satellite Mapping)
- Integrated Workflow for Natural H₂ Exploration - C. Rigollet (Cva)

Poster: Integrated Subsurface Methods

- 13:45** An Evaluating Oil Saturation Method on PNC Logging Technology By D-D Neutron Source in Cased Hole - F. Tang (China University of Petroleum)
- High Velocity Anomaly of Neogene Stratum in the Strike-Slip and Extensional Stress Zone - X. Sun (Tianjin Branch of CNOOC Ltd.)
- Enhanced Energy Efficiency Strategy Through Acceleration of Polymer Projects Delivery via Simplified & Standardized Integrated Modeling Approach - H. Kiyumi (Petroleum Development Oman)
- Diagenetic Trap Potential in a Reflux Dolomitized Triassic Carbonate Formation - S. Zhang (Aramco)
- Intelligent and Integrated Water Control Workflow in Sustainable Oilfield Operation - S.H. Talebian (Ilam University)
- Research and application of phase controlled inversion based on waveform analysis in reservoir prediction - W. Jingchao (China National Offshore Oil Corporation (CNOOC) Ltd Tian Jin Branch)
- Marginal Gas-Field Development Project in South Sumatera, Indonesia: Challenge and Scenario - T. Fansuri (Pertamina Hulu Energi)
- Optimising Recovery and Reserves from Small-Idle Field Clusters, Central Sumatra Basin, Beta Working Area, Indonesia - F.F. Azmalni (Pertamina Hulu Rokan)
- Optimizing Appraisal Strategy in a Complex Clastic Reservoir with Viscous Oil - A. Al Jabri (Petroleum Development Oman)
- Optimising the transition from waterflood to GOGD in a fractured carbonate reservoir in Sultanate of Oman - M. Choudhary (Petroleum Development Oman)

Poster: Non-Seismic Methods

- 13:45** First records of magnetic field daily variation acquisition in Abrolhos Archipelago compared to IGRF-13 - F. Hermes (Universidade Federal Fluminense)
- Perspectives of quantum gradiometry in geophysical applications. Preliminary simulations from FIQUgS project. - M. Capponi (Geomatics Research & Development srl)
- Processing of unmanned underwater vehicle vector magnetometer data - G. Marquis (University of Strasbourg)
- Forward modelling of GPR imaging with arbitrary high-order pseudo-spectral solver - G. Long (China University of Petroleum-Beijing)
- On the stability and effective weighting of the enhanced horizontal derivative filter - S.P. Oliveira (Federal University Of Parana)
- A balanced edge detector for aeromagnetic data - S.P. Oliveira (Federal University of Parana)
- A pragmatic approach to the magnetic inversion for basement estimation - M. Speziali (SLB)
- Regularisation of vertical derivatives of potential field data using Morozov's discrepancy principle - S.P. Oliveira (Federal University Of Parana)

Poster: Seismic Interpretation - Reservoir Geology

- 13:45** Fault zone structure from the analysis of high-resolution seismic data, Wisting field, Barents Sea - L. Schulte (SLB)
- Subseismic Clinoforms in a Deeply-buried Cambrian Carbonate Shelf-to-basin Sequence: Lessons from Outcrop Modelling - H. Zeng (University of Texas at Austin)
- Identification of the Ultra-deep Fault-controlled Karst-fracture-cavity Carbonate Reservoir and Its Application in Tarim Basin - B. Lui (China University of Petroleum, Tarim Oilfield Company of China National Petroleum Corporation)
- Characterization of a Strike-slip Fault and Its Impact on Reservoir and Hydrocarbon Accumulation in Tarim Basin - F. Yang (China University of Petroleum, Tarim Oilfield Company of China National Petroleum Corporation)
- Fault identification based on variational mode decomposition and improved C3 coherence algorithm - W. Li (Cnooc China Limited, Tianjin Branch)

Poster: Technologies & Attributes for Seismic Interpretation

- 13:45** Closing the gap between seismic and well data with 3D DAS VSP: an integrated workflow - C. Liborio (Eni S.p.a.)
- Wavelet Assisted Constrained Least Squares Spectral Analysis Algorithm for Time-Frequency Analysis - A.D. Quansah (Ghana National Petroleum Corporation)
- Resolving Key Issues of Mature Mumbai Offshore Fields Using PP-PS Seismic Interpretation - U.S. Mishra (SLB)
- Pressure impacts on the wave dispersion in fluid-saturated dual-porosity media - F. Chen (China University Of Petroleum)
- Natural and artificial fractures response characterisation in large-size samples using distributed acoustic sensing technology. - E. Martuganova (TU Delft)
- Building Low-frequency model for reservoir characterization based on deep learning - Q. Sun (Shandong Provincial Key Laboratory of Deep Oil and Gas, China University of Petroleum)
- An Innovative Approach to Time-Frequency Analysis and Its Application in Seismic Signal Processing - Y. Wu (China University of Petroleum(Beijing), State Key Laboratory of Petroleum Resources and Prospecting)
- Study on analytical method of reflection coefficient of spherical wave in VTI media - L. Song (China University of Petroleum)

Technical Programme

Tuesday 6 June | Poster presentations

Last updated 30 May

Poster: Underground gas storage

13:45	How to select a suitable storage site for CO₂ sequestration? A quick, basic workflow - S. Rashidi (Coventry University)
	CO₂ storage and utilization potential in the Middle East: Lessons learned from the Cretaceous carbonate reservoirs - S. Yusmananto (King Fahd University Of Petroleum And Minerals)
	Underground gas storage feasibility in one of Iranian depleted reservoirs - A. Kazemi Abadshapoori (hiraz University)
	Hydrate risk assessment during CO₂ injection on legacy wells in a highly depleted gas field - A. Perez-Perez (CHLOE at the University of Pau)
	Time-Lapse Seismic Feasibility Study for CO₂ Injection in Depleted Reservoirs: A Case Study from Offshore Malaysia - P. Boonyasatphan (PTTEP)
	Main principles and technologies of hydrogen production, storage and transportation in Ukraine - O. Ivanik (Taras Shevchenko National University of Kyiv, University of Lorraine)
	Enhancing Water Separation from Paraffinic Crude using Ultrasound followed by Centrifugation - D. Pandey (University of Petroleum & Energy Studies)
	Laboratory investigation of the formation and dissociation of methane-propane hydrate in the presence of n-heptane - A. Nakhaee (University Of Tehran)
	Role of Methanogenesis and Sulfate Reduction in Lifetime Performance of Hydrogen Storage in Depleted Gas Reservoirs - E. Ranaee (Politecnico di Milano)
	3-D Modeling of Microbial Effect on Hydrogen Underground Porous Media Storage - Y. Le Gallo (Geostock)
	From hydrogen storage potential to hydrogen capacities in underground hydrogen storages - Y. Le Gallo (Geostock)

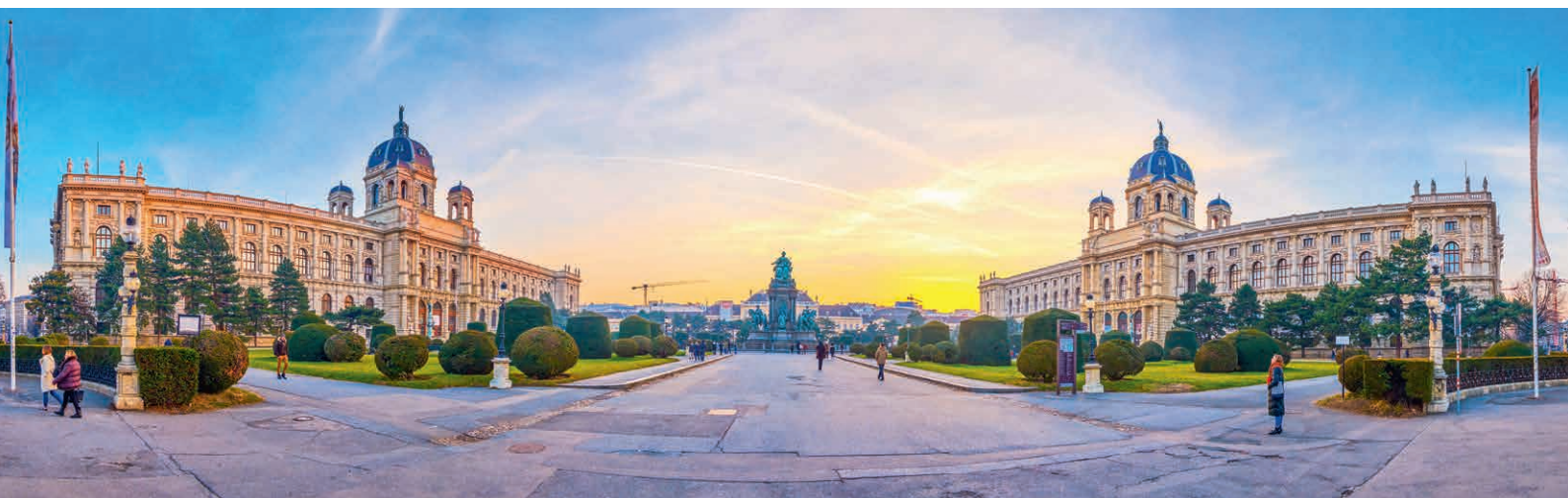
Posters: Geology 1

13:45	Main controls on natural fracture distribution in the Lower Triassic sandstones of the West Netherlands Basin - F. Tutuarima (Delft University Of Technology)
	Distribution Of Biomarkers In The Ordovician-Silurian Organic Matter In The Baltic Syncline (Ne Poland-Sw Lithuania) - P. Kosakowski (AGH - University of Science and Technology)
	Hydrocarbon generation characteristics of Qingshankou Formation shale in Songliao Basin based on organic geochemical parameter correction - Y. Zhang (China University Of Petroleum)
	Millimeter-scale fine evaluation of shale oil content and pore structure heterogeneity and its significance - X. Wang (China University Of Petroleum)
	Mechanical Properties Prediction of Siliciclastic Reservoirs: A Machine Learning Approach - Z. Alibrahim (Saudi Aramco)
	Facies zonation in mixed/hybrid (deepwater and shelf) depositional environments - S. Stankovic (NTC NIS - Naftagas LLC Novi Sad)
	Application of Facies-controlled Modeling in Reservoir Prediction of Sublacustrine Fan - Y. Liu (CNOOC Ltd Tian Jin Branch)
	Strontium isotope and element constraints on the paleoenvironment of the latest Ediacaran in the Sichuan Basin - X. Zhang (NWGI)
	A automatic method for inversion of three-dimensional slowness distribution around borehole - W. Zi (China University of Petroleum, Beijing)
	Development of a supradetachment basin in the southern Campos Margin, Brazil, by successive incising detachment faults - P. Alvarez (UERJ)
	Hydrocarbon source rock characterization and Basin modelling, A case study from Poseidon field, Browse Basin, Australia - P. Patadiya (Pandit Deendayal Energy University)

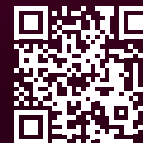
Poster: Knowledge Sharing I (SPE)

Chairperson: B. Stewart (Independent)

13:45	Challenges in Modeling Coupled Thermo-Hydro-Mechanical-Chemical Processes for CO₂ Injection in a North Sea Hydrocarbon Chalk Reservoir - S. Hosseinzadehsadati (Technical University of Denmark)
	P/Z for CO₂ Injection Into Depleted Gas Reservoirs - J. De Kok (EBN B.V.)
	CO₂ Dissolution Trapping in Depleted Gas Reservoirs With Residual-gas Mixtures and Bottom Water - X. Shen (China University of Petroleum)
	Potential Evaluation on the Artificial Geothermal Energy of Post Steamed Heavy Oil Reservoirs - X. Dong (China University of Petroleum)
	Modified Cam-clay Model Parameters for Well Cement - V. Soustelle (TNO Applied Geosciences)
	Business Model of Carbon Capture and Storage Projects for High-CO₂ Fields - H. Lot (PETRONAS)
	Optimization of Carbon-geo Storage into Saline Aquifers: A Coupled Hydro-mechanics-chemo Process - Z. Tariq (King Abdullah University of Science and Technology)
	Auto-correction Algorithm of Multiphase Flowmeter Water Cut Measurements in Undersaturated Oil Wells - M. Alali (Saudi Aramco)



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Wednesday 7 June | Oral presentations

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ROOM SCHUBERT 1		ROOM SCHUBERT 2		ROOM SCHUBERT 4	
Capture, Utilization and Storage of Fluids in the Subsurface III (SPE) Chairpersons: T. Manai (SLB), T. Schaaf (STORENGY)		Carbon Efficient Reservoir Management (Joint EAGE/SPE) Chairperson: H. Jufila (Jufila LTD), Bernard Giroux (Institut National de la Recherche Scientifique)		Stratigraphy and Reservoir Understanding Chairperson: O.A. Abbink (S&P Global Commodity Insights)	
08:30	An Analytical Method for Estimation of Thermal Fracturing Initiation During CO ₂ Injection in Depleted Gas Reservoirs - T. Huijskes (EBN B.V.)	08:30	Numerical Investigation of the Primary Mechanisms Leading to Complex Fracture Morphology in the Near-wellbore Region - G. Moridis (Texas A&M University)	08:30	Tectonostratigraphy of Jurassic-Cretaceous clastic reservoirs deposited within NW-SE trending half grabens in offshore Kutch Basin, India - S. Vichare (Oil And Natural Gas Corporation Ltd)
08:50	Numerical Investigation of Subsurface Hydrogen Storage: Impact of Cyclic Injection - M. Arif (Khalifa University)	08:50	Bi-objective Optimization of Subsurface CO ₂ Storage With Nonlinear Constraints Using Sequential Quadratic Programming With Stochastic Approximate - M. Onur (University of Tulsa)	08:50	The Middle-Late Ordovician conodont and carbon isotope stratigraphy study in the Upper Yangtze Platform - X. Ma (Research Institute of Petroleum Exploration & Development)
09:10	Effective Relative Permeabilities Based on Momentum Equations With Brinkmann Terms and Viscous Coupling - P.O. Andersen (University of Stavanger)	09:10	Chasing Gas Asset Value Maximization: An Integrated Workflow Led By Reservoir Monitoring - P. Mariotti (Eni S.p.A)	09:10	The Aid of Principal Components and Discriminant Functions Logs in Chemostratigraphy - C. Scheibe (Saudi Aramco)
09:30	Discussion on the Wettability Alteration Behavior Induced by CO ₂ -brine-silica Interaction and Its Effect on the Performance - Y. Li (China University of Petroleum, Beijing)	09:30	Novel Acid Stimulation Technique For Production Improvement - Austrian Eocene Case Study - F. Smith (StimStixx Technologies Inc.)	09:30	Stratigraphic Heterogeneity within Carbon Capture and Storage License Areas in the UKCS - L. Cowliff (Halliburton)
09:50	Coffee break				
10:10	Well Integrity Safety Factor for Tubular Connections in Petroleum, Geothermal, and Carbon Capture Wells - M. Goodman (eWellbore LLC)	10:10	Carbonated Water Flooding for Improving Heavy Oil Production - J. Wang (Saudi Aramco)	10:10	Facies-calibrated Dual-imaging While Drilling, Yme Field, Norway - P. De Luca (Repsol Sinopec Brasil)
10:30	Flow of Viscoelastic Polymer Solutions in Porous Media: Influence of Molecular Weight and Dispersity - N. Langanke (Clausthal University of Technology)	10:30	Feasibility Study of In-situ CO ₂ Generation for Enhanced Oil Recovery; in a Middle East Oil Reservoirs - E. Haji Bolouri (Petroleum University Of Technology)	10:30	Good quality sandstones in the deeply-buried reservoirs of the Dvalin area (Norwegian Sea) - D. Duranti (Wintershall Dea Norge AS)
10:50	Comparing WAG-CO ₂ Injection With Continuous Water and Gas Injection in Separate Wells for the Development and - J. De Oliveira Junior (University of Campinas)	10:50	Impact of Uncertainties and Decision Variables on CO ₂ Enhanced Oil Recovery and Storage: A Numerical Investigation - J. Mao (Norwegian University of Science and Technology)	10:50	Diagenetic controls on dryland clastic reservoirs from the Buntsandstein Subgroup in the Netherlands - E. Cecchetti (Delft University Of Technology)
		11:10	Sustaining Well Productivity with Enhanced Acid Fracturing Treatment - Q. Sahu (Aramco)	11:10	Reservoir Characterization in the Somalian Deepwater Frontier: Using a Worldwide Database to Predict Reservoir Quality - S. Cossey (Coastline Exploration, U3 Explore)
11:30	Break				
13:45	Poster Sessions				
Machine Learning, AI, and Digitisation for More Efficient Operations I (SPE) Chairpersons: T. Manai (SLB), T. Yang (Equinor)		Capture, Utilization and Storage of Fluids in the Subsurface (Joint EAGE/SPE) Chairpersons: J. Sarout (CSIRO), T. Manai (SLB)		Petroleum Systems - 1 Chairpersons: J. Bateau (Retired), A. Wenke (Equinor ASA)	
14:45	Real-time Rock-properties Estimation for Geosteering: Statistical Rock-physics Driven Inversion of Seismic Acoustic Impedance and LWD Ultra - F. Ciabbarri (Eni S.p.A)	14:45	Measurement of Effective Hydrogen-Hydrocarbon Gas Diffusion Coefficients in Reservoir Rocks - T. Clemens (OMV Energy)	14:45	Study of Underexplored Plays in Dnieper-Donets basin via Rethinking of Basin Evolution throughout Early Carboniferous Period - I. Karpenko (Naftogaz Group)
15:05	Improved Hydraulic Fracture Characterization Using Representation Learning - S. Misra (Texas A&M University)	15:05	Reactive Transport Modelling of H ₂ Storage In Depleted Gas Fields: An Approach to Implement Biogeochemical Reactions - A.M.S. Elgendy (Eni S.p.A.)	15:05	Secondary Migration Modelling for Multivariant Exploration Planning: An Analytical Approach - A. Shokrollahi (The University Of Adelaide)
15:25	AI Grid Design for Fast Reservoir Simulation - L. Nghiem (Computer Modelling Group Ltd.)	15:25	An Interdisciplinary Approach to Investigate the Cement Integrity for Underground Hydrogen Storage Wells - S. Pruno (Stratum Reservoir)	15:25	Geochemical data characterization and spatialization for petroleum system analysis—An example from Offshore North Gabon Basin, Africa - N.S. Mohd Pauzi (PETRONAS CARIGALI)
15:45	Case Study of the Use of a Digital Twin for Leak Detection and Quantification in Underground - E. Baronio (Snam SpA)	15:45	Numerical Simulation for Hydrogen Storage and Biomethanation - F. Zarei (CMG)	15:45	Mercury isotopy: a new frontier as contaminant-source fingerprinting applied to mercury concentration forecast in hydrocarbon fluids - H. Mansur (MPM)
16:05	Coffee break				
16:25	Massive Geomodel Compression and Rapid Geomodel Generation Using Advanced Autoencoders and Autoregressive Neural Networks - S. Misra (Texas A&M University)	16:25	An Integrated Reservoir Modelling and Simulation Workflow: A Case study of Volve Field - J. Parmar (Pandit Deendayal Energy University)	16:25	Characteristics and significance of the solid bitumen in the Z2dn2 of Sinian in Sichuan Basin, China - X. Ma (Petrochina)
16:45	Life-cycle Production Optimization With Nonlinear Constraints Using a Least-squares Support-vector Regression Proxy - M. Onur (University of Tulsa)	16:45	Tracking hydrogen fronts from deep measurements utilizing AI – a Pohokura field study - K. Katterbauer (Saudi Aramco)	16:45	Exploration Potential of Ratawi Limestone Play in Kuwait Bay: a Risking Map Approach - A. Al-Ibrahim (Kuwait Oil Company)
17:05	A Comparative Analysis of Convolutional Neural Networks for Seismic Noise Attenuation - M. Fogat (Halliburton)			17:05	Quantitative identification of sedimentary microfacies and reservoir controlling factors of Carboniferous carbonate in eastern Pre-Caspian Basin - X. Wang (Research Institute Of Petroleum Exploration And Development)
17:25	A Robust General Physics-informed Machine Learning Framework for Energy Recovery Optimization in Geothermal Reservoirs - B. Yan (King Abdullah University of Science and Technology)			17:25	Porosity evolution and implications of hydrocarbon expulsion behavior from artificial maturation of Qingshankou Shale - Y. Yan (China University of Petroleum, Montanuniversitaet Leoben)

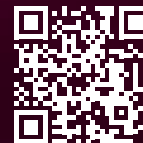
Technical Programme

Wednesday 7 June | Oral presentations

Last updated 30 May

ROOM SCHUBERT 5		ROOM SCHUBERT 6		ROOM STOLTZ 1	
Tectonics and Structural Geology Chairpersons: M. Welch (DTU), A.L. Tertois (AspenTech)		Seismic acquisition - Land Chairpersons: R.G.K. Johnston (BP Exploration Operating Co. Ltd), P. van Baaren (EPI)		Hydrogen Storage Chairpersons: G. Michaud (Geosciences & Monitoring Consulting), E. Ranaee (Politecnico di Milano)	
08:30	The importance of incorporating interpretation derived low throw fault extensions and connections within structural models - D. Hemingway (PDS Group)	08:30	How good is a signal-strength estimate formula for 3D seismic survey design on land? - I. Silvestrov (Saudi Aramco)	08:30	Hydrogen to Humber, UK: New salt caverns within the existing Aldbrough storage facility - S. Hoth (Equinor ASA), F. Sarikhany (Equinor ASA)
08:50	Modeling fracture propagation from brittle to ductile layers - J.M. Sargado (Technical University Of Denmark)	08:50	Automated high-resolution aerial mapping with UAVs for seismic survey scouting - P. Golikov (XPEC Advanced Research Center Saudi Aramco)	08:50	Hydrogen storage in depleted sandstone reservoirs: Is it really an option? - J. Sarout (Csiro)
09:10	Strike-slip tectonics in the Dnieper-Donets and the Lorraine-Saar Basins - O. Panova (National Academy of Sciences, Ukraine)	09:10	Increasing resolution and productivity of Vibroseis methods with enhanced simultaneous sweeps and cabled acquisition - I. Korotkov	09:10	Repurposing Natural Gas Storage Fields for Hydrogen Storage: Design of Cushion Gas - G. Wang (Heriot-Watt University)
09:30	Improved visualization of structural deformation on the Kraka structure (Danish Central Graben) with color-processed seismic data - M. Welch (DTU)	09:30	A dense receiver grid seismic project without receiver point surveying, an example from Romania - M. Garden (OMV E&P GmbH)	09:30	In-situ Hydrogen Production from hydrocarbon reservoirs – parametric study - P. Ikpeka (Teesside University)
09:50	Coffee break				
		Imaging 2 Chairperson: Grog Fookes (Geoprospector Seismic UK)			
10:10	Structural inheritance and salt tectonics, Dvalin field, Norwegian Continental Shelf. - P. Kraemer (Wintershall Dea)	10:10	Accelerating sparse inversion by adaptive reweighting and its application to geophysical inverse problems - N. Luiken (King Abdullah University Of Science And Technology)	10:10	Hydrogen underground storage in reservoirs: pore-scale mechanisms and optimization - C. Xie (University Of Science And Technology Beijing)
10:30	Ages and Diagenetic Settings of Tectonic Events in the Presalt Succession in the North Campos Basin - M. Strugale (Petrobras S.A.)	10:30	Research and Application of Diffraction Imaging Based on Full-azimuth Angle Domain Migration - S. Zang (Research Institute of Petroleum Exploration & Development-Northwest,CNPC)	10:30	Impact of Reservoir Uncertainties and Design Choices on Back Produced Gas Composition in Underground Hydrogen Storage - A. Correnti (Shell)
10:50	Salt-tectonic structures associated with the western Betic Cordillera Canopy (Spain) - J.F. Finch (Elsevier)	10:50	Research and Application of Omnidirectional Angle Domain Q Prestack Depth Migration Imaging Technology - H.H. Zeng (NWGI, PetroChina)	10:50	Role of Relative Permeability Hysteresis in Numerical Simulations for Hydrogen Geostorage - G. Giacomini (Universidad Politécnica de Madrid)
11:10	Analysis on The Tectonic Deformation Controlled by Multiple Sets of Detachments, Junggar Basin, China - L. Chao (Bgp, Cnpc)	11:10	Diffraction imaging of Tertiary injectites and basement faults/fractures in the Norwegian North Sea - T.J. Moser (Moser Geophysical Services)	11:10	Sustainable hydrogen production utilizing artificial intelligence – a McKee reservoir study Introduction - K. Katterbauer (Saudi Aramco)
11:30	Break				
13:45	Poster Sessions				
Outcrop Analogues Chairperson: O.A. Abbink		Seismic acquisition - Sources and Blending Chairpersons: R. Johnston (BP Exploration Operating Co. Ltd), A. Laake (SLB)		Characterization and Monitoring of Geothermal Reservoirs Chairpersons: S.T. de Vries (EBN B.V.) G. Sosio (SLB)	
14:45	Architecture Units, Depositional Model and Mechanism of Thick Sand in Yanchang Formation, Ordos Basin, NW China - G. Qin (Ripied CNPC)	14:45	Using “Noise-Corrected OVT Fold” to Optimize Land Seismic Acquisition Risk, Costs, and Quality - C. Stork (Land Seismic Noise Specialists)	14:45	Numerical Investigation of High Temperature Aquifer Energy Storage (HT-ATES) in Northern Germany - L. Ganzer (Southwest Petroleum University)
15:05	A new insight into the study of Oligocene-Miocene deposits within the southeastern edge of Greater Caucasus - A. Javadova (Oil and Gas Institute of the Ministry of Science and Education of the Republic of Azerbaijan)	15:05	Validation of an Alternative Seismic Source: The Integrated Projector Node Marine Vibrator Pilot Seismic Survey. - R. Alfaro (TotalEnergies E&P Brazil Research Centre)	15:05	CO2 plume geothermal (CPG) in depleted gas reservoirs: sensitivity analysis on key parameters - H.C. Turunc (TU Clausthal, Institute of Subsurface Energy Systems)
15:25	Characterization of fracture patterns in Lower Cretaceous platform carbonates: Examples from the Galve sub-basin (Iberian Chain) - L.C. Acosta (University of Barcelona)	15:25	Marine Vibrator Seismic Survey Pilot: Source Signature Comparisons and Operational Success - D. Roy (General Dynamics Applied Physical Sciences)	15:25	Fracture density prediction using CNN-LSTM deep neural network for geologically complex geothermal reservoirs - Q. Yasin (Shandong University of Science and Technology; Northeast Petroleum University)
		15:45	Simultaneous acquisition with hexagonal phase encoding - C. Bagaini (SLB)	15:45	In Strike: Induced Seismicity Risk Estimation in geothermal powerplants – Multi Parameter Influence Analysis - N. Levi (Nimbuc Geoscience)
16:05	Coffee break				
Exploration Technologies for non-Hydrocarbons Chairperson: M.F. Francis (Retired)					
16:25	Assessing drilling location in karstic coastal aquifer through approach inspired from common risk segment (CRS) mapping - A. Fourmillon (Beicip-Franlab)	16:25	Imaging with a low frequency source - G. Baeten (Shell Exploration and Production Company)	16:25	Fluid flow through microcracked and fractured granitic reservoirs - P. Baud (University of Strasbourg (EOST))
16:45	Curie depth analysis of Japan and comparison with seismicity and drillhole data in Kakkonda - Y. Okubo (Geothermal Energy Research & Development Co., Ltd.)	16:45	Joint deblending and designature of multi voice-data: a marine example - T. Allemand (Sercel)	16:45	Active and passive seismic monitoring of laboratory-based injection-driven fault reactivation - A. Veltmeijer (Delft University of Technology)
17:05	Fonts-Bouillants (France) : towards the first helium production in Western Europe - B. Hauville (45-8 ENERGY)	17:05	Independent simultaneous sourcing and dispersed source array: the first 3D pilot program onshore Abu Dhabi - T. Ishiyama (ADNOC)	17:05	Contribution of WEB-AVO Seismic Inversion to Machine Learning-based Reservoir Properties Prediction in a Dutch Geothermal Field - A.A. Babasafari (Delft Inversion)
17:25	A new passive seismic monitoring strategy for the exploration of natural Hydrogen and Helium occurrences. - T. Kremer (Geolinkservice)	17:25	Broadband Sweep Signal of Vibrator Design Technology Based on Damped Ricker Wavelet - F. He (Sinopec Geophysical Corporation)	17:25	Lessons learned from a geothermal well test with associated sour gas in the Vienna Basin - M. Maierhofer (OMV Energy)

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Wednesday 7 June | Oral presentations

Last updated 30 May

ROOM STOLTZ 2		ROOM LEHAR 1		ROOM LEHAR 2	
Evaluating CCS Potential and Optimisation Chairpersons: A. Bounaim (SLB) V. Rocca (Politecnico di Torino)		ML and Processing Chairperson: F. X. de Melo (SLB)		FWI: Case Studies 2 & Near Surface Chairpersons: B. Webb (Eni S.p.A. E&P), D. Donno (CGG)	
08:30	Adapting Hydrocarbon Workflows to Enable Carbon Storage Fairway Screening and Efficient Comparison - J. Jennings (Halliburton)	08:30	Velocity model building with deep learning: application to subsea permafrost characterization - J. Bustamante Restrepo (Polytechnique Montreal)	08:30	Multi-parameter FWI imaging in shallow water: a case study from offshore Sarawak - J. McLeman (DUG Technology)
		08:50	Deep Learning Velocity Model Building using Fourier Neural Operators - J. Ramos-Martinez (PGS)	08:50	Dual-azimuth FWI Imaging and its potential in shallow hazard assessment - H. Dinh (CGG)
09:10	Coupling Genetic algorithm and Random Forest for robust prediction of CO2 storage efficiency in underground formations - H. Vo Thanh (Ehwa Womans University)	09:10	Simplifying attenuation waveform inversion with automatic differentiation - Y. Liu (China University Of Petroleum)	09:10	Application of FWI in the imaging of the interior of Archean buried hill in Bohai Bay - D. Xu (CNOOC)
09:30	Interactive rock physics for CCS and near field exploration, a UK Southern North Sea case study - C. Reiser (PGS)	09:30	Geologic stratigraphic scenario testing via deep learning: towards imaging beyond seismic resolution - A. Karimzadzani (TU Delft)	09:30	Non-conventional techniques to build and enhance RTM images - a land case study in south Mexico - F. Perez-Ortega (Slb)
09:50	Coffee break				
10:10	Robust Optimization of Brine Extraction Well Location for CCS: A Surrogate Model Using FMM and CNN - H. Yoon (Seoul National University)	10:10	Microseismic source imaging using physics-informed neural networks with hard constraints: a field application - X. Huang (King Abdullah University of Science and Technology)	10:10	Extreme Near-surface Velocity Heterogeneities from High-fidelity Outcrop Analog Models and Their Effect on Land Seismic Data - I. Silvestrov (Saudi Aramco)
10:30	Feasibility study of geological storage of CO2 in carboniferous UK's Bowland shale formation from geochemical perspective - S. Rezaei-Gomari (Teesside University)	10:30	A robust seismic tomography framework via physics-informed machine learning with hard constrained data - M.H. Taufik (King Abdullah University Of Science And Technology)	10:30	World's Largest OBS Processing and Imaging: New Insights to the Ultra-Shallow Water Offshore Abu Dhabi - F. Damianus (CGG)
10:50	Subsurface Characterization for Advantaged Hydrocarbons and Estimating CO2 Storage Potential - A Sequence Stratigraphy-led Revival? - J. Jennings (Halliburton)	10:50	Seismic imaging enhancement of sparse ocean-bottom node data using deep learning - X. Shi (Chinese Academy of Science)*	10:50	Revealing The Unseen Mud Diapir Through OBN Data: A Case Study in Yinggehai Basin - J. Cai (CGG)
11:10	Evaluation of the Potential of Reservoirs in the Gaviões Cluster, Parnaíba Basin, for Carbon Dioxide Sequestration - E. Leaubon (Universidade Federal Fluminense)	11:10	Deep-salt: 3D salt segmentation from inaccurate migrated subsurface offset gathers using convolutional LSTM layers - A.P.O. Muller (Petrobras; Cbpfi)	11:10	Mud volcano processing and imaging: a case study from the Caspian Sea - C. Purcell (Shearwater Geoservices)
11:30	Break				
13:45	Poster Sessions				
CCS Capacity and Containment Chairpersons: H. Hajibeygi (TU Delft), P. Samier (TotalEnergies)		Model Estimation and Modelling Chairpersons: A. Stovas (Norwegian University of Science & Technology), C.D.T. Walker (BGP Offshore)		FWI: Theory 1 Chairperson: L. Casasanta (Shearwater Geoservices)	
14:45	Predicting the fault seal capacity of CCS sites using legacy databases from oil and gas exploration - F. Schaefer (Wintershall Dea)	14:45	Total variation regularization for first-break travel time inversion - Y. Zhang (Max Planck Graduate Center, Johannes Gutenberg University Mainz)	14:45	Application of simultaneous inversion (FWI and nonlinear LS-RTM) for improved imaging. - Ø. Korsmo (PGS)
15:05	How tight are top seals? Insights from a comprehensive characterization workflow - X. Shi (Montanuniversität Leoben)	15:05	Deriving a high-resolution regional scale Q model over the Northern Viking Graben - T. Latter (CGG)	15:05	Automation in full-waveform inversion: A way forward - S. Roy (SLB)
15:25	De-risking European CCS operations with the most complete earthquake catalogue for the North Sea - T. Kettlety (University of Oxford)	15:25	Joint DAS and Geophone Microseismic Imaging - C. Wu (Chevron Technical Center)	15:25	High-Resolution One-Way Reflection Waveform Inversion - S. Abolhassani (Delft University of Technology)
15:45	Regional reservoir and seal characterization for Carbon Capture and Storage in Denmark using forward stratigraphic modelling - F.W.H. Smit (GEUS)	15:45	A wave equation with the gradients of velocity and density for seismic modeling and migration - J. Bai (AspenTech)	15:45	Soft-dynamic time warping divergence as a misfit measure in full-waveform inversion - M. Kalita (Shearwater Geoservices)
16:05	Coffee break				
16:25	Assisted Interpretation Workflows Applied to the Smeaheia Carbon Storage Prospects - L. Cowliff (Halliburton)	16:25	Computations of the slowness vectors in viscoelastic anisotropic media - B. Zhou (Khalifa University of Science and Technology)	16:25	Time domain elastic-wave FWI based on first-order approximate instantaneous frequency - H. Yang (China University of Petroleum)
16:45	Analytical aquifer methods applied to saline aquifer CO2 storage - far field pressure developments - S. Thibeau (TotalEnergies)	16:45	A fully scalable 3D non-periodic homogenization method to upscale elastic media - J. Cao (Univ. Grenoble Alpes)	16:45	Visco-elastic full-waveform inversion and imaging using ocean-bottom node data - A. Ratcliffe (CGG)
17:05	Quantification of CO2 Storage Efficiency with Aquifer Pumping - R. Gadrabouh (Imperial College London)	17:05	Bridging the gap between ray-based and wave-equation methods: A new two-way beam wave equation approach - J. Yang (China University of Petroleum)	17:05	Weighted time-domain extended-source full waveform inversion with layer stripping - G. Guo (University of Cote d'Azur)
				17:25	Optimal Experimental Design in Full Waveform Inversion - M.A. Abdellaziz (Univ. Grenoble Alpes)

Technical Programme

Wednesday 7 June | Oral presentations

Last updated 30 May

ROOM LEHAR 3		ROOM LEHAR 4		ROOM LEHAR 5	
Machine Learning for Inversion Chairpersons: E. Angerer (OMV Exploration & Production GmbH), H. Di (SLB)		Petroleum Systems of Central and Eastern Europe (Dedicated Session) Chairpersons: A. Wenke (Equinor ASA), J.J. Bifeau (Retired)		Deblending and Compressive Sensing Chairpersons: J. Brittan (PGS), G. Hampson (DUG)	
08:30	Frequency-dependent AVO inversion via deep neural network and application on tight reservoir parameters prediction - A. Stovas (Norwegian University of Science and Technology)	08:30	An overview of petroleum systems in the Polish part of the Southern Permian Basin - W. Mikołajewska (PKN ORLEN SA; AGH University of Science and Technology in Kraków)	08:30	Joint seismic interference and simultaneous source separation in an OBN survey using multi-stage iterative source separation - D. Brager (SLB)
08:50	Building pseudo-well label logs for neural-network-based amplitude-versus-angle inversion - J. Sun (China University of petroleum)	08:50	Geological history and hydrocarbon resources of Polish Carpathians and their foreland - G. Karpiński (PKN ORLEN SA)	08:50	An Anti-Noise Full Frequency Expansion Approach for Seismic Data based on Compressed Sensing - H. Zeng (Research Institute Of Petroleum Exploration & Development-northwest)
09:10	Deep Learning Seismic Inversion: A case study from offshore Angola - K. Osypov (Halliburton)	09:10	Miocene Biogenic Petroleum System in the Carpathian Foreland – South Romania - G. Alexandru Cosmin (OMV Petrom)	09:10	Compressive sensing principles applied for seismic data acquisition and processing in time and space - M. Almubarak (Saudi Aramco)
09:30	Bayesian inversion of 4D seismic data with a machine learning prior: Application to the Catcher fields - G. Côte (Heriot-Watt University)	09:30	How mass transport deposits influence the biogenic gas prospectivity of the Black Sea Basin, offshore Bulgaria - D. Constandache (OMV Petrom)	09:30	Separation Technology of Seismic Blending Data for Borehole Explosive Source Simultaneous Shooting - F. He (Sinopec Geophysical Corporation R&D Center)
09:50	Coffee break				
10:10	A deep learning scheme for petrophysical properties prediction - R. He (PetroChina)	10:10	Amplitude Analysis Offshore Bulgaria: Workflow Adapted to Thin Reservoir Context – Working “With” Tuning - B. Paternoster (TotalEnergies)	10:10	Deblending and reconstruction of blended seismic data based on damped randomized singular spectrum analysis - Z. Li (Tongji University)
10:30	Direct Petrophysical Inversion from pre-stack seismic data using deep learning - C.L. Lew (Group Research Technology PETRONAS, Heriot-Watt University)	10:30	Source rocks & petroleum systems of the Hungarian part of the Pannonian Basin - B. Badics (Wintershall Dea Norge AS)	10:30	Mask-Unet Deblending (MUD)-A self-supervised deep network for blended noise attenuation - J. Lu (SINOPEC Geophysical Corporation)
10:50	Weakly Supervised Learning for 2D Seismic Impedance Inversion - Q. Qi (Xi'an Jiaotong University; National Engineering Research Center of Offshore Oil and Gas Exploration)	10:50	Petroleum Systems in the North Alpine Foreland Basin - R.F. Sachsenhofer (Montanuniversität Leoben)	10:50	Deblending of triple source marine towed-streamer data using multi-stage iterative source separation with priors - S. Leake (SLB)
11:10	Deep learning prestack seismic inversion based on multi-seismic features - R. Luo (Tongji University)			11:10	Deblending seismic data using iterative source separation with priors – a 3D streamer data case study - R. Kumar (SLB)
11:30	Break				
13:45	Poster Sessions				
Lithology and Fluid Prediction Chairpersons: A.J. van Wijngaarden (Equinor), C. Reiser (PGS)		Drone Remote Sensing and Drone Geophysics for Near-Surface Applications (Dedicated Session) Chairperson: B. Dupuy (SINTEF)		DAS and Microseismic Chairpersons: I. Silvestrov (Saudi Aramco), P. Golikov (EXPEC Advanced Research Center Saudi Aramco)	
14:45	Applicability of Gassmann's theory to rocks with disconnected porosity - B. Gurevich (Curtin University)	14:45	Magnetic surveying with UAV to fill the gap between ground and airborne magnetic surveys - P. Le Maire (Cardem-Pyro)	14:45	Assessing the Processing and Imaging Challenges of DAS VSP Data for CO2 Storage Imaging and Monitoring - M. Galyga (CGG)
15:05	Relative permeability effects on fluid substitution and seismic attenuation - G. Papageorgiou (University of Edinburgh)	15:05	Vertical gradient measurements using MFAM in a UAV-borne magnetic survey - F. Accomando (Department of Earth, Environmental and Resources Sciences-Federico II)	15:05	DAS VSP Flow Noise Attenuation Based on Matching Pursuit - G. Zhan (TGS)
15:25	Cross-Scale Dispersion and Attenuation of Seismic Waves in VTI Media with Mixed Cracks - Y. Feng (China University Of Petroleum)	15:25	Processing of a Multi-Sensor Drone-Towed Gradiometry Survey from Arctic Norway - J. Petersen (Technical University of Denmark)	15:25	Unsupervised learning framework for denoising distributed acoustic sensing (DAS) data - L. Yang (China University of Petroleum (Beijing))
15:45	A Quantitative Saturation Prediction Method Based on PSO-RVM Algorithm - S. Dai (Sinopec Geophysical Research Institute)	15:45	A Practical Approach to Digital Mapping of Rock Cuts Assisted by UAV - B.K. Pran (Norwegian Geotechnical Institute)	15:45	Hybrid algorithm for noise suppression and source signature estimation of DAS data - N. Kazemi (Université du Québec à Montréal)
16:05	Coffee break				
16:25	A new pore fluid parameter prediction based on multi-component seismic - X. Guo (Petrochina)	16:25	Exploring the capabilities of UAV-based GPR for detecting weak layers in snowpacks - A. Siebenbrunner (LoLa Peak Solutions GmbH; University of Innsbruck)	16:25	Joint Microseismic Event Detection and Location Based on a Detection Transformer - Y. Yang (King Abdullah University of Science and Technology)
16:45	Gas hydrate reservoir identification based on modified fluid indicator - K. Lang (China University of Petroleum)	16:45	Multisensor UAS testing to support avalanche forecasting and monitoring - S. Salazar (NGI)	16:45	Seismic first arrival picking with a U-SegNet network - R. He (PetroChina)
17:05	Rock physics model of gas hydrate reservoir with mixed occurrence states - C. Wu (China University Of Petroleum (Beijing))	17:05	Final Discussion: Multiscale multisensor drone surveys to bridge the gap between ground and airborne/satellite data - B. Dupuy (SINTEF), M. Adams (Austrian Research Centre for Forests (BFW)), G. Martelet (BRGM)	17:05	Automation of distributed acoustic sensing passive seismic processing - I. Lim Chen Ning (Chevron Technical Center)
17:25	An integrated workflow for rock physics AVO inversion and dynamic model in a UAE carbonate field - H. Inoue (INPEX; ADNOC Offshore)			17:25	Scattering wavelet transform for earthquake signals classification with a small training set - Y. Xu (Harbin Institute of Technology)

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Wednesday 7 June | Oral presentations

Last updated 30 May

ROOM STRAUSS 1		ROOM DOME 1		DOME 2	
New Interpretation Workflows with Case Examples Chairpersons: J.P. Neep (Ikcon Science Ltd), M.E. Etchebes (SLB)		ML - Case studies 1 Chairpersons: F. Anifowose (Saudi Aramco), J. Sharifi (Ferdowsi University of Mashhad)		EOR and Screening Methods Chairperson: S.H. Talebian (Ilam University)	
08:30	The Value of Uplift Processing in Frontier Exploration Basins – Offshore Brazil Case Studies - S. Baldock (TGS)	08:30	Microseismic source localization using Fourier Neural Operators - K. Suleymanli (King Fahd University of Petroleum and Minerals)		
08:50	Prospectivity Insights from Simultaneous Velocity and Reflectivity Inversion, Offshore Newfoundland and Labrador, Canada - N. Montevicchi (Oil and Gas Company of Newfoundland and Labrador)	08:50	Transfer Learning Using Fourier Domain Adaptation for Seismic Structure Interpretation - R. He (China University of Petroleum; PetroChina)	08:50	Control of Asphaltene Precipitation by MgO and NiO Nanoparticles as Inhibitors onto Calcite Surface: Experimental Approach - A. Shafiei (Nazarbayev University)
09:10	Key techniques of seismic prediction for Paleozoic bauxite reservoirs, Ordos Basin - R. He (Petrochina)	09:10	Automated Processing using Machine Learning Techniques for geological documentation – an NDR view - J. Dijk (TNO)	09:10	Fluoropolymer Coating for Production Tubing to Mitigate Asphaltene Challenge in Deep Wells - A. Abbas (Kuwait Oil Company)
09:30	Adapting conventional hydrocarbon workflows to enhance renewable resources exploration: Font-Bouillants case study - J. Adam (Eliis)	09:30	Machine-Learning Based Land-Cover Classification Using UAV Imageries Intended for Seismic Survey Scouting in Arid Area - P. Golikov (Saudi Aramco)	09:30	Improving the economics of polymerflood EOR through polymer tapering at the Captain field - G. Johnson (Ithaca Energy UK LTD)
09:50	Coffee break				
Integrated Reservoir Characterization Chairpersons: L.G. Klefsstad (Norwegian Petroleum Directorate), S. Turchi (Charles University)					
10:10	Advanced Petrophysical Evaluation of an Alluvial/Fan-Delta Reservoir: A Case Study from the Pannonian Basin - M.N.A. Akbar (MOL Group)	10:10	Oil production forecast using Fuzzy Time Series and Artificial Neural Network techniques - P.K. Singh (Indian Institute Of Petroleum & Energy)	10:10	Managing a Complex Polymer Project Through Comprehensive Reservoir Monitoring & Surveillance: 12 years of Operational Experience - M. Sawafi (Petroleum Development Oman)
10:30	Penyu Basin – the Insightful Observations and Ideas to Unveil the Subsurface - A.J. Abu Bakar (SLB)	10:30	On data quality in mineral potential modelling: A case study using random forest and fractal techniques - B. Roshanravan (University of Birjand)	10:30	Enhancing Oil Recovery with Nanoparticle-Assisted CO2 Foam in a Carbonate Reservoir - A. Bello
10:50	Utilizing a Newly Developed Approach (LINS) for the Subsurface Identification of Complex Stratigraphy in Clastic Reservoirs - A. Khalifa (Saudi Aramco)	10:50	Managing and Optimizing mature asset in US using a Machine Learning Physics embedded workflow - C. Calad (Tachyus)	10:50	Screening and Smart Evaluation of Subsurface Additional Pressure Drop in Oil Fields - S. Kord (Petroleum University of Technology, Ahwaz)
11:10	Use of forward stratigraphic modelling for the detection of sub-seismic scale heterogeneities in shallow marine environments - A. Cuesta Cano (TU Delft)			11:10	High-definition modelling through geostatistical inversion: an alternative approach to conventional algorithms. Case Study from Southern Mexico - S. Rasoulzadeh (GeoSoftware)
11:30	Break				
13:45	Poster Sessions				
Global Oil and Gas Exploration Case Studies Chairpersons: B. Roshanravan (University of Birjand), H. Granser (OMV)		ML - Case Studies 2 Chairpersons: J.M. Singer (Fugro Technology BV), P.R. Williamson (TotalEnergies OneTech)		Reservoir Characterization 1 Chairpersons: V. Rocca (Politecnico di Torino), M. Yutkin (King Abdullah University of Science and Technology)	
14:45	Early Miocene Play Analysis in Salina Istmo Basin – multidisciplinary approach to identify regional exploration potentials - E. Morfin (Wintershall Dea Mexico)	14:45	Regionally trained machine learning brains for Earth model building horizons - D.F. Fernandez (SLB)	14:45	A 3D simulation study for monitoring water content in a porous storage - M. Khalili (University of Eastern Finland)
15:05	Jaya gas field discovery by integrated geophysical workflows in Hazad channel sands of Cambay basin, India - V.R. Kola (Cairn oil & Gas, Vedanta Ltd)	15:05	D-SWE: Data-driven discovery of a seismic wave equation - S. Cheng (King Abdullah University Of Science And Technology)	15:05	Channel Reservoir Characterization by Latent Variable Evolution - Y. Lee (Seoul National University)
15:25	Revisiting the Cenozoic Play Trend Prospectivity in the Orphan Basin – Offshore Newfoundland and Labrador, Canada - D. McCallum (Oil And Gas Corporation of NL)			15:25	Geomodelling and iterative dynamic simulations for the determination of flow units in fluvial settings - A. Fourmillon (Beicip-Franlab)
15:45	A Frontier Fairway in East Africa: The Carbonate Play of the Mid-Somalia High - K. Schofield (Coastline Exploration Ltd; U3 Explore)	15:45	Enhancing seismic resolution by using U-Net deep learning network - Z. Li (State Key Laboratory of Shale Oil and Gas Enrichment Mechanisms and Effective Development; China University of Petroleum)	15:45	Integrating Uncertainty and conditioning Facies Models to dynamic data using the Adaptive- Pluri-Gaussian (APG) algorithm - D. Gese Jarque (Resoptima)
16:05	Coffee break				
		ML – New Technologies Chairperson: W. Al-Mudhafar (Basrah Oil Company)			
16:25	The Norwegian Barents Sea: Experience On Drilling Of The First Exploration Well On The Fedynskiy High - M. Mosesyan	16:25	Industry First Quantum-Based Seismic Attribute - O. Alsalmi (Aramco)	16:25	Maximizing Steam Flooding Efficiency Through Investigating the Impact of Geological Setting on Steam Distribution - L. Al Saadi (PDO), I. Al Kharusi (PDO)
16:45	New insights into the hydrocarbon potential of Brazil's Equatorial basins: An underexplored Atlantic margin - R. Ysaccis (SLB)	16:45	Quantum annealer-assisted residual refraction statics estimation on the SEAM Arid model dataset - D. Rovetta (Aramco Overseas Company BV)	16:45	Effect of water saturation on the elastic modulus of coal and sandstone - B. Yanruoxi (China University Of Mining & Technology)
17:05	From Plate Tectonics to Basins, Plays, and Risked Barrels, Offshore Somalia - E. Casey (Coastline Exploration Ltd; U3 Explore)	17:05	The Use of Virtual and Augmented Reality to aid the transformation of the Energy Business - U. Bieg (OMV)	17:05	Data automation for image logs texture analysis: supervised methodology and case studies - R. Berto (Eni S.p.a)
17:25	Gas Prospect Derisking in the Drava Basin: an Unbiased Approach Using Neural Networks - C. Msika (AspenTech)	17:25	Increasing your exploration success using AI, ML and ChatGPT - P.E. Dhelie (AkerBP)	17:25	Biot Coefficient of Reservoir Rocks from one Brazilian Pre-salt Oil Field - G. Vasquez (Petrobras)

Technical Programme

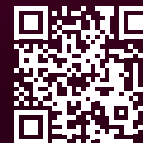
Wednesday 7 June | Oral presentations

Last updated 30 May

DOME 3		DOME 4	
Integrated Approaches to Exploration Chairpersons: C. Turich (Echantillon Advising), J. Wendebourg (TotalEnergies)		Energy Transition and Net Zero Emissions: The Role of Geoscience and Engineering to Tackle Climate Change and Ensuring Energy Safety for Future Generations (Dedicated Session) Chairperson: C. Martin-Clave (Jacobs)	
08:30	Remote Sensing and Geoscientific Data Integration for hydrocarbon Prospecting in "Alcock Rise" and "Sewell Rise" - D.K. Mahata (Oil India Limited)	08:30	The ConsenCUS Project: Carbon Neutral clusters by Electricity-based Innovations in Capture, Utilisation and Storage - A. Ougier-Simonin (British Geological Survey)
08:50	Prospect Assessment – Oil or gas, or both? - M. Neumaier (ArianeLogiX)	08:50	Assessing the impact of hierarchical geological heterogeneities on geothermal energy production. - K. Baird (Herriot-Watt University)
09:10	Integrated Chance of Success (iCOS): Convolving geological and geophysical evidence into a single prediction - T. Hedayati (ExxonMobil)	09:10	A non-intrusive site investigation for a Geological Disposal Facility for radioactive waste - C. Strand (Nuclear Waste Services)
09:30	Augmenting drill-cuttings utilisation for geological and petrophysical interpretation – exploring with sparse data - K. Dasgupta (OMV Exploration & Production GmbH)	09:30	Project ADMIRE: a multiscale integrated experimental-numerical approach to enable underground hydrogen storage - H. Hajibeygi (Delft University of Technology)
09:50	Coffee break		
10:10	Uncertainty assessment via Quantitative Seismic Interpretation into Exploration Process - Y.E. Perez Meza (Petrolera)	10:10	World liquid hydrocarbon prospective resource evaluation: the way for a post-fossil phase? - J.J. Biseau (retired)
10:30	AVO feasibility volumes for prospect derisking constrained by burial history – A Barents Sea demonstration - P. Avseth (Dig Science)	10:30	SEG EVOLVE Carbon Solutions – Training the Workforce of Today for Tomorrow's Business Environment - J. Joyce (Exxonmobil)
10:50	Direct probabilistic inversion with non-stationary rock physics depth trends – A North Sea demonstration - H. Juhl Hansen (Qeye Labs)	10:50	Round table discussion: The Role of Geoscience and Engineering to Tackle Climate Change and Ensuring Energy Safety for Future Generations - C. Martin-Clave (Jacobs)
11:10			
11:30	Break		
13:45	Poster Sessions		
Integrated Solutions to Development Challenges Chairpersons: A. Vesnaver (OGS), C. Hanitzsch (Wintershall Dea)		Best of Petroleum Geoscience (Dedicated Session) Chairpersons: J. Redfern (University of Manchester), S. Geiger (Delft University of Technology)	
14:45	High resolution quad source acquisition and processing for improved imaging around the Wisting field, Barents Sea - P.E. Dhelie (AkerBP)	14:45	New insights into the structure, geology and hydrocarbon prospectivity along the central-northern Corona Ridge, Faroe-Shetland Basin. - L. Layfield (Equinor; The University of Aberdeen)
15:05	Reprocessed reservoir optimized seismic supports understanding and development of PL586 Fenja Field (Norwegian Sea) - Z. Greplowski (PGS)	15:05	Fault Interpretation and Slip Potential Analysis from Hydraulic Fracturing Across the Bowland Area in Central Britain - G. Rodriguez-Pradilla (University of Bristol)
15:25	Hydrogen Sulphide Concentration in the B14 Field, Sarawak, Malaysia- Underlain Water as a H2S Scrubbing Mechanism - M. Choo (SapuraOMV Inc)	15:25	Overview of the Exploration Potential of Offshore Argentina – Insight from New Seismic Interpretations - H. Kearns (Hurricane Energy)
15:45	Portfolio level screening for Enhanced Gas Recovery in Gas Reservoirs in the Sultanate of Oman - R. Bos (Shell Development Oman)	15:45	The rejuvenation of hydrocarbon exploration in the Eastern Mediterranean - F. Lottaroli (Eni S.p.A. E&P)
16:05	Coffee break		
16:25	Fluvial Deltaic Play Concept of Talang Akar Sand for Interfield Block Development, South Sumatra Basin, Indonesia - A. Permana (Pertamina Hulu Rokan)	16:25	The Design of an Open-Source Carbonate Reservoir Model - J. Costa Gomes (Heriot-Watt University)
16:45	Prospects of Geothermal Field Development in Gandhar, Gujarat, India - V. Pandey (Pandit Deendayal Energy University)	16:45	CO2 injection and storage in porous rocks: coupled geomechanical yielding below failure threshold and permeability evolution - A. Bere (Rockfield Software Ltd)
17:05	Predicting Future Hydrocarbon Production using Neural Networks on Near Wellbore Seismic Volumes - D. Gray (Geomodeling Technology Corp.)	17:05	How to explore for helium - C. Ballentine (Oxford University)
17:25	Unlock the Potential of Using FO Technology for Several Applications for Waterflood Projects in Clastic Reservoir - M. Al Hashemi (Client)		



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Wednesday 7 June | Poster presentations

Last updated 30 May

STOLZ FOYER	
Poster: Geomechanics	
13:45	Crack Initiation Prediction in Rock Samples using Digital Image Correlation - A. Karimzadzani (TU Delft) Numerical investigation of cyclic wetting and drying of Boom clay based on the Barcelona Expansive Model - S. Tourchi (Charles University) A template for investigating pore pressure detectability based on wave velocity - J. Sharifi (Ferdowsi University of Mashhad) Efficient Well Delivery through Geomechanics and Its Impact on Reservoir Characterization and Field Development - O. Alzankawi (Kuwait Oil Company) Subsurface stress-strain field changes during sedimentary deposition in offshore basins - I. Orozova-Bekkevold (University of Copenhagen)
Poster: Integrated Subsurface - Unconventional	
13:45	The Rupture Characteristics Induced by Pre-existing Fractures of Shale in Field Setting - C. Yin (Southwest University of Science and Technology) Rock failure mechanism of hydraulic fracturing revealed by in situ dynamic CT scanning - Z. Ma (IGGCAS) Source mechanisms inversion using the waveform similarity - S. Wu (Chinese Academy Of Sciences) Neural network based performance prediction of medium to high ash Indian coal in Fluidized Bed Gasifier - S. Ghosh (CMPDI (Coal India Limited)) Research and application of integrated seismic exploration technology in benefit development of coalbed methane (CBM) - T. Wang (CNPC) A four-phase joint elastic-electrical effective medium model for estimating pore-filling hydrate saturation - S. Cai (Imperial College London)
Poster: Near-Surface Characterization for Hydrogeology and Mining	
13:45	GPR and resistivity surveys in Guarani aquifer system recharge zone, Paraná basin, Brazil - J.L. Porsani (Universidade de São Paulo) Fault identification in opencast coalmine bench through integrated approach of ERT, GPR and borehole data - D. Mondal (CMPDI (Coal India Limited)) Deep detection range test for a low frequency subsurface radar system (with reviewable data available online) - G. Stove (Adrok Ltd)
Poster: RTM	
13:45	Stable and effective attenuation compensation strategy for viscoacoustic reverse time migration - Z. Jiao (Tongji University) Least-squares reverse time migration based on flux-corrected transport technique - L. Chen (China University Of Petroleum) Enhancing Computational Efficiency for Extended Least-squares Reverse Time Migration Using Excitation Amplitude Imaging Condition - W. Chung (Korea Maritime and Ocean University) Joint acoustic and separated-elastic least-squares reverse time migration for simultaneously using water-land dual-detector data - J. Liu (China University of Petroleum) Efficient Reverse Time Migration Method in TTI Media Based on a Pure Pseudo-Acoustic Wave Equation - H. Jiale (China University of Petroleum) Full wavefield migration based on eigen-decomposition propagation operators - A. Li (China University of Geosciences) Initial model building for 3D full-waveform inversion with genetic algorithm and entropy-regularized optimal transport misfit - C.H. Bastidas Perez (China University of Petroleum)
Poster: Seismic Imaging and Inversion	
13:45	Helmholtz Decomposition for Elastic VTI Wavefield Based on Phase Direction - G. Yao (China University of Petroleum) Suppressing reflections with vector reflectivity acoustic modelling - R. Fletcher (SLB) Imaging Moveout Approximations for 3D Factorized Elliptical Anisotropic Media - K.T. Galtung (Norwegian University of Science and Technology) A shortest-path-aided fast sweeping method to improve the accuracy of travel time calculation - J. Zhang (Tongji University) Rays, traveltimes and amplitudes in an underwater sound channel described by the Munk's formula - J. Sun (Jilin University) Time domain full waveform inversion with decomposed Gauss-Newton Hessian - G. Guo (University Cote d'Azur) Application of FWI on onshore data in Bohai Bay Basin - W. Wu (BGP, CNPC) Suppressing 4D-noise induced by coordinate inaccuracies using a receiver-extension FWI strategy - S.L. Da Silva (GISIS, Fluminense Federal University; Politecnico di Torino) Double-difference constrained reflection tomography - H. Yang (China University Of Petroleum) Joint Migration Inversion including Q effects: towards Q estimation - M. Safari (Delft University of Technology) A contract-source-based high-resolution microseismic source location method - S. Wei (China University Of Petroleum-Beijing) A deep-learning inverse Hessian preconditioning for iterative least-squares migration - K. Torres (University of Alberta) The study of anisotropic Gaussian beam migration based on summation method - M. Han (CNOOC)

Technical Programme

Wednesday 7 June | Oral presentations

Last updated 30 May

Poster: Seismic Processing

13:45	Use of geophysical site investigation insights to improve imaging with vintage 3D seismic surveys, offshore Malaysia - K. Wangkawong (PTTEP)
	Multiscale Dense Attention Network for Seismic Data Reconstruction - R. He (NWGI, Petrochina)
	Interpolation Using a Phase-shift-plus-interpolation-based Apex Shifted Hyperbolic Radon Transform - Y. Wang (Jilin University)
	The curvelet domain modelling and inversion method to attenuate "black triangle" noise for vibroseis desert data - G. Zhang (Sinopec Geophysical Research Institute)
	A Dual Attention Enhanced Encoder-Decoder Network for Seismic Data Denoising - S. Knispel (University of Hamburg)
	Stacking Velocity Estimation from Rugged Topography - R. Xu (Tongji University)
	Deep Underground Earthquake Observation: Translations, Rotations and Applications - C. Chen (China University of Geosciences)
	Improving repeatability of 4D OBN data using interferometry by regularized multidimensional deconvolution - C.A.N. Da Costa (Federal University of Rio Grande do Norte)
	Off-the-grid seismic data reconstruction approach based on a combined sampling operator and fast sparse inversion - D. Lieqian (BGP, CNPC)
	Frequency-Dependent Ultrasonic Attenuation Measurements in Low Attenuating Mediums: Numerical and Experimental Approaches - M. Deheuvels (MAKUTU - LMAP; TotalEnergies)
	The deblending processing of multi-well 3D DAS-VSP data from offshore Abu Dhabi - G. Yu (BGP Inc. CNPC)
	Walkaway DAS VSP simultaneously acquired between two deep wells - A. AlDawood (Saudi Aramco)
	Automatic detection of microseismic waveform based on machine learning - J. Qiao (China University Of Petroleum)
	Velocity-independent NMO correction based on multi-scale dynamic time warping - Y. Wu (China University Of Petroleum)
	The Fractional W Transform - Z. Zhao (China University of Petroleum)
	Prestack data Q estimation by combining the radial-trace transform and LSADD theory - W. Cheng (China University Of Petroleum)

Posters: Geology 2

13:45	Comparison between methodologies of cementation exponent in carbonate reservoir of Santos Basin, Brazil - J. Moreira (North Fluminense State University)
	Determining NMR transverse surface relaxivity using microCT scanning for pore structure evaluation in pre-salt Brazilian carbonates - M. Jacomo (Instituto de Geociências Unicamp)
	Pore Compressibility Estimation of Coquinas Carbonates from Morro do Chaves using four different Methods - S. Bueno (North Fluminense State University)
	Flexural dispersion curves in a deviated borehole surrounded by a prestressed isotropic formation - S. Fan (China University Of Petroleum-Beijing)
	New rock physical models describing the pressure dependence of seismic/acoustic dispersion characteristics - O. Marashly (University of Miskolc)
	FEM Modelling of a knife-based Microimager: Resolution and Depth of Investigation - I. Alobaidan (Imperial College)
	Dynamic Depth Alignment of Well-bore Measurements Using Machine Learning - S. Acharya (Norwegian University Of Science And Technology)
	Characterising regional evaporite seal for hydrocarbon and CO2 storage – Upper Jurassic, Arab-Hith formations, Saudi Arabia - N. Boehm (Kaust)
	Sequential Diagenesis: constraining paragenesis with petrographical observations and a topological ordering algorithm - A. Consonni (Eni S.p.A.)
	The Impact of Polyphasic Extensional Tectonics on Fault Growth in the Central Apennines Foreland - F. Thomas (Università dell'Insubria - Dipartimento)
	Evaluation of diagenesis in bioclastic carbonate rocks using pore aspect ratio and elastic parameters - N.I.C. Rios (UENF)

Poster: Knowledge Sharing II (SPE)

Chairperson: B. Stewart (Independent)

13:45	Simulation and Prediction of Countercurrent Spontaneous Imbibition at Early and Late Times Using Physics-Informed Neural Networks - P.Ø. Andersen (University of Stavanger)
	An Intrusive Hybrid-analytics and Modelling With Deep-learning for Efficient and Accurate Predictions of Hole-cleaning Process During - P. Nivlet (SINTEF)
	Rapid Inference of Reservoir Permeability From Inversion of Travel Time Data Under a Fast Marching Method - B. Yan (King Abdullah University of Science and Technology)
	Well Performance Metrics Suitable for Automated Well Monitoring - A. Shchipanov (NORCE)
	High-temperature DAP Treatments of Carbonate Rocks for Proppant Embedment Severity Mitigation - M. Al Jawad (King Fahd University of Petroleum and Minerals)
	A Complex Morphologically Regular Pore Network Model to Study Water Retention Curve of Hydrate-bearing Sediments - C. Mingqiang (Research Center of China National Offshore Oil Corporation)
	Research on Multiple Coal Seams Relative Permeability Calculation Method Based on Production Data Inversion - T. Huang (China University of Petroleum-Beijing)

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Thursday 8 June | Oral presentations

Last updated 30 May

ROOM SCHUBERT 1		ROOM SCHUBERT 2		ROOM SCHUBERT 4	
Carbon Efficient Reservoir Management (SPE) Chairpersons: M.-M. Chiotoroiu (Omv Expl.& Production GmbH), P. Mariotti (Eni S.p.A.)		Extraction of Heat and Materials from the Subsurface Fluids (SPE) Chairpersons: M. Brignoli (Eni SpA), V. Jaffrezic (TotalEnergies SA)		Petroleum System - 2 Chairperson: G. Fookes (Geoprosider Seismic UK)	
08:30	Transport of EOR Surfactant in Reservoirs: Impact of Polymer on Apparent Surfactant Inaccessible Pore Volume - D. Rousseau (IFP Energies nouvelles - The EOR Alliance)	08:30	Forecasting Low Enthalpy Geothermal Heat Extraction From Saline Aquifers Under Uncertainty - M. Bayerl (OMV Exploration & Production GmbH)	08:30	Charge & HC migration failure analysis in Norwegian North Sea: 1966-2022 - B. Badics (Wintershall Dea Norge AS)
08:50	Near Real-time Tracer Data from the Onsite Tracer Analysis in Nova Field - E. Nikjoo (Resman AS)	08:50	Challenges in the Simulation of Salt Clogging - M. Khosravi (DTU)	08:50	Geologic controls on oil & gas distribution at the Brent and Statfjord fields, North Sea - M. Cheng (Consulting Geologist)
09:10	Simulations of Alkali-polymer Experiments: Modeling of In-situ Emulsion Generation and Transport of Oil-in-Water Emulsion in Porous - A. Perez-Perez (CHLOE (University of Pau))	09:10	Estimation of Permeability, Skin, and Inflow Profile in Multilayered Systems From Temperature Transient Data Using a - M. Onur (University of Tulsa)	09:10	Implications of Source Rock Characterization in a Salt Basin - Offshore Nova Scotia - K. Rodriguez (Searcher)
09:30	Continuous Monitoring of Water Pressure Change in an Oil Reservoir - S. Riisen (Hydrotell AS)	09:30	Maintaining the Integrity of Geothermal Wells During the Construction Process - A. Al-Fakhri (SLB)	09:30	Well based geochemical analysis - Northern part of the Mexican Gulf of Mexico - M. Benitez (Wintershall Dea Mexico)
09:50 Coffee break					
10:10	Using EcalcTM for Designing a Low Emission Reservoir Drainage Strategy for Oseberg C - H. Ånes (Equinor ASA)	10:10	Numerical Investigations on Induced Seismicity and Fracture Activation in Fractured Geothermal Reservoirs - M. Gudala (KAUST)	10:10	Prediction and post-well analysis of H2S generation and drilling risks in the Barents Sea Paleozoic play - A. Hartwig (Aker BP ASA)
10:30	Utilization of Microfluidics Technology for an Efficient Polymer Screening Process in Enhanced Oil Recovery (EOR) Applications - N. Langanke (Clausthal University of Technology)	10:30	Autonomous Inflow Control Valve for Medium-light Oil and Its Effective Performance - K. Langaas (Aker BP ASA)	10:30	The Petroleum System of Offshore Somalia: A Potential - K. Schofield (Coastline Exploration Ltd; U3 Explore)
10:50	Modeling of Oil-in-water Dispersion Injection for Enhancing Displacement Front Uniformity in Water-flooded Heterogeneous Reservoirs - N. Alahmed (NORCE Norwegian Research Centre)	10:50	Delivering NET ZERO - A Case Study Of Minimized Carbon Intensity Production Using Autonomous Inflow Control - M. Moradi Dowlatabad (Tendeka)	10:50	Using machine learning to improve Petroleum Systems Analysis: tools to support, not replace, the geoscientist - D. Cornford (IGI Ltd)
11:10	Multi-fold Increase in Production Through Polymer Flooding Application in Viscous Oil Active Aquifer Driven Reservoir of - N.K. Jain (Oil and Natural Gas Corporation Ltd)	11:10	Successful Additional Carbon Intensity Reduction and Oil Gain Through Polymer Injection Optimization in Heavy Oil Field - H.S.A. Al-hajri (Petroleum Development Oman)		
11:30 Break					
13:45 Poster Sessions					
Machine Learning, AI, and Digitisation for More Efficient Operations II (SPE) Chairpersons: M. Bayerl (OMV E&P), R.E. Hincapie (OMV E&P GmbH)		Net Zero Energy Economics and Sustainability (SPE) Chairpersons: D. Arnold (Heriot-Watt University), T. Clemens (OMV Energy)		Static Multi-scale and Multi-Resolution Geomodelling Chairpersons: M. Welch (DTU), R. Bachmann (Wintershall Noordzee BV)	
14:45	Reservoir Fluid Typing From Standard Mud Gas - A Machine Learning Approach - A. Cely (Equinor ASA)	14:45	A Control Volume Material Balance Approach and Its Applications to Real-time Flow Diagnostics - N. Zhang (University of Stavanger)	14:45	Quantification of static interpretation uncertainties. A practical application to a giant mature field. - P. Kraemer (Wintershall Dea)
15:05	Effect of Liquid-liquid Subsea Separation on Production Forecast Considering Integration of a Deepwater Reservoir and Surface - A. Bigdeli (Universidade Estadual De Campinas)	15:05	Decarbonization Will Not Come for Free: Asset-M Marginal Abatement Cost Curve - O. Al Kindi (PDO)	15:05	Scalable Earth Modelling: A Grid-less Multi-scale Multi-resolution Modelling Approach - S. Strebelle (Halliburton)
15:25	Efficient FDP Optimization for AI Enhanced Decision Making - G. De Paola (Repsol)	15:25	ESG, Sustainability Aand Decarbonization: An Analysis of Strategies and Solutions for the Energy Industry - A. Agbaji (PricewaterhouseCoopers-US)	15:25	Recent Advances on the Application of Stratigraphic Forward Models - A. Davies (Halliburton)
15:45	Permeability Estimation Using Machine Learning Techniques for a Heterogeneous Mud Dominated Carbonate Reservoir, Offshore UAE - D. Contreras (ADNOC Offshore - Seconded from OMV)	15:45	Fluid Identification From Mud Gas in the Overburden - A Case Study From the Snorre Field - F. Ungar (Equinor ASA)	15:45	Compression-based modelling of the Ross Formation, Clare, Ireland - T. Manzocchi (iCrag, University College Dublin)
16:05 Coffee break					
16:25	A Field-scale Real-time Prediction of Reservoir Porosity From Advanced Mud Gas Data - F. Anifowose (Saudi Aramco)	16:25	Energy Transition Strategies to Implement Energy Security of Natural Resources: Albania Case Study - B. Hoxha (Robert Gordon University)	16:25	Sketch-based modelling with flow diagnostics: Prototyping geomodels for better resource modelling decisions - C. Jacquemyn (Imperial College London)
16:45	Geothermal Reservoir Optimization Empowered by a Generalized Thermal Decline Model and Deep Learning - B. Yan (King Abdullah University of Science and Technology)	16:45	Sun Powered Green Hydrogen - A Comparative Analysis From the Kingdoms of Morocco and Saudi Arabia - N. Kasraoui (CEPSA)	16:45	Fracture modeling in high uncertainty environment of subsalt carbonate reservoir in Precaspian depression - V. Gabrielyants (SLB)
17:05	Opportunities and Uncertainty Mitigation Base on Survivor Bias in a Mature Field, Cañadón León, San Jorge - A. Legarreta (YPF SA)	17:05	Paradigm Shift in Conventional Hydraulic Fracturing - Emerging Fracturing Techniques Using Thermochemical Fluids - A. Alghamdi (Saudi Aramco)	17:05	A workflow for modelling fault leakage probability in the Gullfaks field - A. Tertois (AspenTech)
		17:25	The Race to Conquer the Hydrogen Business: The Seven Territories of Australia's Strategy - M.I. Trujillo Vergara (CNOOC Int)		

Technical Programme

Thursday 8 June | Oral presentations

Last updated 30 May

ROOM SCHUBERT 5		ROOM SCHUBERT 6		ROOM STOLTZ 1	
Geomechanics Chairpersons: H. Hajibeygi (Delft University of Technology), Y. Panara (King Abdullah University Of Science And Technology)		Seismic Acquisition - New energy applications and DAS Chairpersons: M. Branston (SLB), G. Hampson (DUG)		Geothermal Exploration and Regional Assessments Chairpersons: S.T. de Vries (EBN B.V.), A. Ziolkowski (University of Edinburgh)	
08:30	Evaluation methods of shale brittleness based on deformation and energy evolution mechanism during complete loading process - J. Xie (CDUT)	08:30	Advanced high-resolution 3D streamer seismic acquisition solutions for new energy applications - M. Widmaier (PGS)	08:30	Regional-scale 3D geothermal prospecting to support local authorities in delivering national strategies. - S. Oldfield (Geo)
08:50	Inelastic strain due to slow deformation of clay-bearing porous sandstone - T. Shinohara (Utrecht University)	08:50	Experience from 3D DAS-VSP acquisition and imaging for assessment of CCS applications - P.A. Olsen (Equinor)	08:50	Geothermal exploration at Sumikawa, in Japan, by DTS and DAS in the geothermal well - J. Kasahara (ENAA)
09:10	Depletion-induced reservoir compaction in the Dvalin North field: integrating laboratory testing and geomechanical modelling - L. Douma (Wintershall Dea)	09:10	Feasibility DAS data acquisition with low power high frequency sources - K. Tertyshnikov (Curtin University of Technology)	09:10	An integrated approach from multiphysics to probabilistic capacity estimation of geothermal reservoirs in early exploration stage - T. Yargici (SLB)
09:30	3D geomechanical modelling of induced seismicity including intersecting faults and reservoir compartments - J. Ruan (Delft University of Technology)	09:30	Quantitative Evaluation of DAS Passive Seismic Monitoring: Theory and Case Studies - T. Mizuno (SLB)	09:30	Assessing Thermal Recovery-Efficiency (Thermal RF) of a Hot-Dry-Rock System: Case Study from South Australia - A. Everts (AEGeo Sdn Bhd)
09:50	Coffee break				
				Energy Transition - Integrated Energy Basins Chairpersons: A. Martinez (ExxonMobil), D. Barlass (SLB)	
10:10	Analytical and Numerical Analyses of Wellbore Stability Problem Using a Plasticity Model - M. Motahari (Petroleum University of Technology)	10:10	Ultra-strength fibre optics logging system acquires DAS VSP in minutes, offshore UK - R. Guerra (SLB)	10:10	CO2 emissions the elephant in the room: a pathway of reduction using digitalization and unstructured data - F. Baillard (Iraya Energies)
10:30	Three-dimensional numerical modelling of drilling-induced tensile wall fractures - M. Schöpfer (University of Vienna)	10:30	On Gauge length selection in Surface Distributed Acoustic Sensing: Field data perspectives - R. Bachrach (SLB)	10:30	Geostorage for CCS and Renewable Energy in Eastern Canada- North Sea Scale Opportunities - G. Wach (Dalhousie University Basin & Reservoir Lab)
10:50	Geomechanical modelling of cooling-induced 4D time shifts on the Johan Sverdrup field - A. Rozhko (Equinor ASA)	10:50	Evaluating 4D DAS VSP Acquisition at the Big Foot Field Gulf of Mexico - L. Zhuo (Chevron U.S.A. Inc.)	10:50	The Deliberate Search for Hydrogen: Characterizing New Subsurface Play Concepts - O. Sutcliffe (HALLIBURTON)
11:10	What can we learn from higher-order harmonics for rock characterization? - K. Mews (NTNU)	11:10	Ambient seismic wavefield composition from spectral analysis of downhole DAS data in urban and rural environments - R. Pevzner (Curtin University)	11:10	Application of Hydrocarbon Experience in fuel switch to geothermal energy: A Case study from Vienna Basin - R.N. Knezevic (OMV E&P GmbH)
11:30	Break				
13:45	Poster Sessions				
Integrated Subsurface - Unconventional Chairperson: M. Nur Ali Akbar (MOL Hungary)		Seismic acquisition - OBN Chairpersons: S. Grion (Shearwater GeoServices), M. Widmaier (PGS)		Legacy Wells: Threat and Opportunities for Energy and CO2 Storage (Dedicated Session) Chairperson: B. Dupuy (SINTEF)	
14:45	Experimental study on the effect of porosity on the elastic properties of methane hydrate formation - W. Xu (China University of Petroleum)	14:45	A New Generation of Autonomous Ocean-Bottom Nodes: Their Development and Applications - F. Mancini (Blue Ocean Seismic Services)	14:45	Repurposing idle wells from gas fields in the North German Basin into deep borehole heat exchangers - N. Koltzer (Fraunhofer IEG)
15:05	Experimental Study on the Influence of Hydrocarbon Accumulation on Seismic Wave Velocity and Amplitude - P. Ding (China University of Petroleum)	15:05	Towards a next generation Ocean Bottom Node: Incorporating a 6C motion sensor - Å.S. Pedersen (Equinor)	15:05	De-risking legacy well integrity to unlock storage potential of the Frigg field, North Sea Norway - B. Dupuy (SINTEF)
15:25	TOC Pre-Stack Seismic Prediction of Shale Gas Reservoir: A case study from Sichuan Basin, SW China - B. Du (NW-Research Institute of Petroleum E&D, PetroChina)	15:25	100 Ocean Bottom Nodes with their CSAC clock drift analysed for 91 days: three controlled experiments - S. Rentsch (Shearwater Geoservices)	15:25	Re-usability of G&G hydrocarbon subsurface data for geothermal project development: Case study in the Vienna Basin - W. Siedl (Omv E&P GmbH)
15:45	Seismic-based analysis on casing deformation mechanism of shale gas wells: A Sichuan Basin case study - M. Li (BGP, CNPC)	15:45	Acquisition-constrained compressive sensing design for ocean-bottom node surveys - R. Kumar (SLB)		
16:05	Coffee break				
				Post-Mining in Energy Transition (Dedicated Session) Chairpersons: T. Rudolph (Technische Hochschule Georg Agricola - Research Center of Post-Mining), C. Hilgers (Karlsruhe Institute of Technology (KIT) - University)	
16:25	MultiFracSimPPM: A Data-Driven Probabilistic Predictive Model for Hydraulic Fracture Growth from Uniformly and Non-Uniformly-Spaced Perforation Clusters - A. Michael (University of North Dakota)	16:25	A novel approach to OBN survey design for Full Waveform Inversion - D. Hite (ACTeQ LLC)	16:25	FloodRisk – Postmining, mine water rebound, microseismicity, and ground movements - D. Quandt (Karlsruhe Institute of Technology)
16:45	Evaluating monitoring array performance using upper limit magnitude prediction - L. Eisner (Seismik s.r.o.)	16:45	Tracking the edge: Optimizing the future OBN acquisitions over Buzzard - M. Chapelle (SLB)	16:45	TRIM4Post-Mining: Mine Waste Management and Risk Monitoring – A lignite mine case - H. Flores (Research Center of Post-Mining, Technische Hochschule Georg Agricola)
17:05	Using AI with Seismic Attributes to Estimate Future Microseismic Event Densities - D. Gray (Geomodeling Technology Corp.)	17:05	The acoustic wavefield generated by a vessel sailing over ocean bottom cables - S. Hegna (PGS)	17:05	Multisensory Geo-monitoring in Polder Management – An Approach to Integrate Data Layers - B. Bernsdorf (Technische Hochschule Georg Agricola)
		17:25	Acquiring hybrid High-resolution Streamer/OBN seismic for CCS in the complex environment of the Liverpool Bay - S. Baudo (Eni Natural Resources)	17:25	Experience in geomonitoring in post-mining – Success story cavern storage Epe (Germany) - B. Bernsdorf (Technische Hochschule Georg Agricola)

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Thursday 8 June | Oral presentations

Last updated 30 May

ROOM STOLTZ 2		ROOM LEHAR 1		ROOM LEHAR 2	
Carbon Capture and Storage Microprocesses Chairpersons: B. Bai (Missouri University of Science and Technology), J.P. Neep (Ikon Science Ltd)		RTM Chairpersons: J. Brittan (PGS), B. Duquet (TotalEnergies OneTech)		Seismic Interpretation - Carbonate Reservoirs Chairpersons: P.B. Ding (China University of Petroleum (Beijing)), B. Paternoster (TotalEnergies)	
08:30	AI seismic interpretation to assist CCS complex evaluation; example from Viking field area, Quad 49, UKSNS - R. Williams (Geoteric)	08:30	Velocity-adaptive irregular point spread function deconvolution imaging - Y. Wang (China University of Petroleum)	08:30	Interpretation of facies and reservoir in deep-buried Cambrian carbonate strata, Gucheng area, Tarim Basin, NW China - Z. Xu (Research Institute of Petroleum Exploration and Development)
08:50	Comprehensive Evaluation of a Novel Recrosslinkable Preformed Particle Gel for CO2 Sweep Efficiency and Storage Improvement - B. Bai (Missouri University of Science and Technology)	08:50	Iterative image domain least-squares migration - S. Sheng (Tongji University)	08:50	3D seismic documentation and analysis of Eocene and Oligocene-Miocene carbonate platforms, western offshore Libya - N. Khalifa (RWTH Aachen University)
09:10	Effect of magnesium-bearing additives on the properties of a granite-based geopolymer sealant for CCS - S.H. Hajjibadi (University of Stavanger)	09:10	A high-resolution point-spread function deconvolution imaging method based on Gaussian smoothing X-shaped denoising diffusion filtering operator - C. Huang (China University Of Petroleum)	09:10	Subsalt seismic reservoir characterization, how to chase optimal results? - P. Trinh (TotalEnergies OneTech)
09:30	Chemically enhanced carbon dioxide geo-sequestration in sandstone saline aquifers by nanofluids injection - S. Murakami (Nissan Chemical Corporation)	09:30	Image domain seismic inversion based on multi-combined point spread function - Y. Wang (China University Of Petroleum)	09:30	Flat spots in carbonates: rocks, fluids, or myth? - N. Yahaya (PETRONAS)
09:50 Coffee break					
Energy Transition: Subsurface Characterization for Wind Parks Chairpersons: S. Rentsch (Shearwater), W.Rietveld (BP Exploration Operating Co. Ltd)					
10:10	Characteristics of recorded seismic vibrations near wind-turbines: potential as a seismic source - M-D. Mangriotis (University of Edinburgh)	10:10	A new RTM imaging condition: Analysis on angle-domain properties and numerical examples - B. Han (Research Center for Computational and Exploration Geophysics, State Key Lab of Geodesy and Earth's Dynamics, CAS-APM)	10:10	Seismic facies analysis method based on semi-supervised well-log facies classification and MCC-SOM identification and its application - C. Xin (BGP, CNPC)
10:30	Correlation between geotechnical and geophysical data through seismic inversion - J. Reveron (Repsol)	10:30	Reverse Time Migration Imaging Using Pure Shear Wave Data - W. Wu (BGP Inc., CNPC)	10:30	Case Study in Well-Constrained Tomography for Semi-Regional Velocity Modelling – Carnarvon Basin, Australia - S. Amiribesheli (KUPPEC)
10:50	Structure-constrained windfarm soil property estimation via deep neural networks - H. Di (SLB)	10:50	Improved RTM imaging of marine streamer data using principle of reciprocity - R. Rastogi (entre for Development of Advanced Computing)	10:50	Fluid prediction of carbonate reservoir based on PP- and PS-wave amplitude attribute - X. Guo (NWGI, PetroChina)
11:10	Cascaded Deep Learning for Offshore Wind Farm 2D Seismic Horizon Interpretation - T. Zhao (SLB)	11:10	Enhancing subsalt imaging of DAS-VSP data by structurally adaptive aperture RTM - G. Zhan (TGS)		
11:30 Break					
13:45 Poster Sessions					
Applied Geophysics for CO2 Storage Chairpersons: R. Pevzner (Curtin University), C. Hanitzsch (Wintershall Dea)		Imaging 1 Chairpersons: R. Brossier (Univ. Grenoble Alpes), G. Lamberé (CGG)		Seismic interpretation - Siliciclastic reservoirs Chairpersons: P.L. Tay (Equinor ASA), Per Avseth (Dig Science)	
14:45	4D rock physics modelling for UKCS development areas - J. Neep (Ikon Science Ltd)	14:45	On Green's functions, propagator matrices, focusing functions and their mutual relations - K. Wapenaar (Delft University of Technology)	14:45	Modelling of stress-induced anisotropy of seismic velocity of consolidated sandstone using a modified penny-shape crack model - S. Ishinabe (JOGMEC)
15:05	Reimaging sub-surface to characterise depleted gas reservoirs for CO2 storage: A study from the Southern-North Sea - H. Love (SLB)	15:05	Efficient seismic redatuming using least-squares time-reversal - H. Aghamiry (Université Côte d'Azur; Universitat Potsdam, Institut für Mathematik)	15:05	Rock physics analysis of Early Miocene reservoirs in Sureste offshore basin, Gulf of Mexico - L. Ambati (Wintershall Dea)
15:25	Upscaling innovative land seismic acquisitions for geological storage of CO2 in Denmark - M. Papadopolou (Uppsala University)	15:25	Time-shift extended imaging for estimating depth errors - W. Mulder (Shell Global Solutions International BV; Delft University of Technology)	15:25	4D Elastic inversion for 4D interpretation - Case study : offshore Nigeria field case - C. le Magoarou (TotalEnergies)
15:45	Using integrated modelling to assess induced seismicity risk and optimise CO2 injection strategies - M. M. Valcarcel Rodriguez (Petroleum Experts Ltd)	15:45	Fast-track simultaneous velocity and reflectivity inversion using one-way modelling: a North Sea example - R. Soubaras (Aker BP)	15:45	Identification of tight sandstone reservoirs in central Sichuan area of China - R. He (NWGI, Petrochina)
16:05 Coffee break					
16:25	Dedicated carbon storage seismic reprocessing for the Central North Sea CCS site selection - D. Barlass (SLB)	16:25	Receiver extension strategy using a time-dependent relocalization approach for time-domain FWI - M. Benziane (Univ. Grenoble Alpes)	16:25	Seismic Physical Modeling Study on the Effects of Fluid and Clay on Elastic Wave Field - Y. Chai (China University of Petroleum)
16:45	Nonaqueous Solvent Enhances Commercial Viability of Carbon Capture with Amine - Z. Zheng (SLB)	16:45	Seismic Imaging and Reflectivity Inversion Utilizing Surface Multiples - J. Wu (BGP)	16:45	Contourites—A PaleoveLOCITY Meter from Geologic Analogues Created from 3D Seismic Data - A. Laake (SLB)
17:05	Long term CO2 exposure to brine-saturated chalk; an experimental study - K.L. Feilberg (DTU)	17:05	Using Least-Squares Wave-Equation Multiple Migration for Shallow Imaging, a case study on Offshore Brunei OBN data - Q. Tang (CGG)	17:05	An integrated approach in interpretation of a seismic feature at the Askeladd Gamma field - B. Wang (Equinor ASA)
17:25	Why is it critical to revisit significance and consequences of salt precipitation during CO2 injection? - M. Nooraiepour (University of Oslo)	17:25	Least-squares Surface Multiple Migration with VSP dataset - X. Li (BGP)		

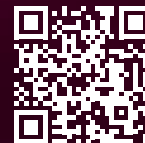
Technical Programme

Thursday 8 June | Oral presentations

Last updated 30 May

ROOM LEHAR 3		ROOM LEHAR 4		ROOM LEHAR 5	
AVO Analysis Chairpersons: H.G. Borges (SLB), P. Avseth (Dig Science)		Going Big - Scaling Machine Learning Applications in Geoscience and Engineering (Dedicated Session) Chairpersons: A. Russell (Equinor ASA), L. Mosser (Aker BP)		Interpolation and Regularisation Chairpersons: K.R. Nunn (NunnGeo Consulting Limited), F. Xavier de Melo (SLB)	
08:30	Discussing the Impact of Seismic Data Conditioning on Wave Equation Based (WEB-AVO) AVO Inversion - J. Coffin (Delft Inversion)	08:30	Introduction: What is MLOps and Why Do We Care? - A. Russell (Equinor ASA), J. Van de Mortel (Independent), L. Mosser (Aker BP)	08:30	Simultaneous local slope estimation and interpolation with PINNs - F. Brandolin (King Abdullah University of Science and Technology)
08:50	Gaussian Mixture Models as priors in a gradient-based variational algorithm for Bayesian elastic inversion - M. Walker (bp)	08:50	How flexible ML Ops delivery shortens time to impact and enables easier integration into existing workflows - D. Thelan	08:50	Multistage matching pursuit Fourier interpolation with physics-based priors - P. Bilsby (SLB)
09:10	Bayesian AVA Elastic Seismic Inversion using Stein Variational Gradient Descent (SVGD) - M. Walker (bp)	09:10	How a pragmatic approach to MLOps put machine learning models in everyday use at Aker BP - P. Aursand (Aker BP)	09:10	Convolutional Neural Network-based Restoration of Near Offsets in Marine Seismic Data - O.R. Huff (University of Oslo)
09:30	To evaluate AVO uncertainty considering correlation: a case study of tight sandstone reservoir - M. Li (Sinopec Geophysical Research Institute)	09:30	Image search at work? An AI pipeline to classify and geo-locate figures from corporate subsurface documents. - J. Lord (KADME AS)	09:30	Multichannel wavefield reconstruction using smooth slope information from multicomponent data - M. Ravasi (King Abdullah University of Science and Technology)
09:50	Coffee break				
10:10	Approximate PP-wave reflection coefficient for the medium containing a set of vertical fracture cluster - K. Lang (China University Of Petroleum)	10:10	Hackathon winner presentation	10:10	Reconstructing Sparse Seismic Data Using the Nonlinear Beamforming Framework - Y. Sun (Aramco Research Center)
10:30	Depth-dependent P-wave Anisotropy and Its Influence on AVO Interpretation in the Northern Malay Basin - S. Teng (Geophysics Solutions PCSB, Petronas)	10:30	Exploration Advisory Tool: AI and NLP in the Geosciences - M. Dillen (Wintershall Dea AG)	10:30	Positional encoding for nonuniform seismic data reconstruction - Y. Chen (Harbin Institute of Technology)
10:50	Pre- and post-drill quantitative interpretation of a gas discovery - N. Yahaya (PETRONAS)	10:50	Final Discussion: MLOps: Predictable AI/ML Value Delivery - A. Russell (Equinor ASA), J. Van de Mortel (Independent), L. Mosser (Aker BP)	10:50	Irregular Data Reconstruction Based on Complex Cepstrum and Dynamic Threshold - Z. Chun (BGP, CNPC)
11:10	Amplitude variation with offsets inversion in terms of total organic carbon indicator - S. Yu (China University of Petroleum)			11:10	Sparse seismic data reconstruction using a convergent alternating projection onto convex sets method - Y. Sun (Aramco Research Center)
11:30	Break				
13:45	Poster Sessions				
4D Seismic Interpretation Chairpersons: H. Granser (OMV), Y. El Ouar (Saudi Aramco)		Deep-Sea Minerals - Thinking Outside the Standard Exploration Box (Dedicated Session) Chairpersons: A. Lim (Argeo), D. Draganov (Delft University of Technology)		Near-Surface: Corrections and Characterization Chairpersons: M. Berraki (EQUINOR), P. Golikov (EXPEC Advanced Research Center Saudi Aramco)	
14:45	4D-Petro Elastic Model calibration – A new way to look at dynamic reservoir properties - P. Trinh (TotalEnergies)	14:45	Geodynamic modelling as part of the marine mineral exploration toolbox - E.H. Hartz (Aker BP)	14:45	Application of multi-scale refraction tomography based on statistics of special geological bodies in Bohai Bay - M. Han (CNOOC)
15:05	Added value of a 3D inversion with a workflow update on a 4D broadband seismic - M. Baturin (TotalEnergies)	15:05	Spatial pattern in hydrothermal venting along the Mid-Atlantic Ridge and the conditions for large sulfide accumulations - L. Ruepke (Geomar)	15:05	Data and model hard constraints to physics-informed neural networks for near-surface tomography - M.H. Taufik (King Abdullah University Of Science And Technology)
15:25	A new reservoir signal: 4D PS time-shifts and quantitative applications - A. Tura (Colorado School of Mines)	15:25	Deepsea massive sulfides: What geophysical tools and environmental surveying should be needed and be cost-effective - B. Kjøllhamar (TGS)	15:25	Shallow seafloor velocity estimation using regression neural networks - M. De Souza Bezerra (Colorado School of mines)
15:45	Strain estimation from pre-stack anisotropic time-shift inversion applied to a North Sea field - C. MacBeth (Heriot-Watt University)	15:45	Magnetic and electromagnetic exploration of SMS deposits; perspectives and frontiers - H. Müller (Federal Institute for Geosciences and Natural Resources (BGR))	15:45	Towards 3D near-surface correction without NMO – A rank-based approach - A. Alfaraç (TU Delft)
16:05	Coffee break				
16:25	Determining Type and Range of Reservoir Fluid Change From 4D Seismic Data - M. Li (SINOPEC Petroleum Exploration and Production Research Institute)			16:25	Statistical Surface-Consistent Residual Statics, Phase, and Amplitude Corrections - T. Lei (Tongji University)
16:45	Overcoming the challenges faced in a 4D project on a Jurassic carbonate field, offshore Abu Dhabi - S. Yuh (TotalEnergies)			16:45	Land and OBN near surface seismic distortion is often more complicated than the standard SC-Decon model - C. Stork (Land Seismic Noise Specialists)
17:05	The Complementary Role of 4D DAS VSP Time Shifts of PS/PP/P-waves to Permanent Reservoir Monitoring. - Y. Nassar (Independent Consultant)			17:05	Surface distributed acoustic sensing (S-DAS) for high resolution near surface characterization - G. Busanello (SLB)
				17:25	Leveraging automation to aid time constraints on seismic data processing for offshore windfarm development - G.A. Sierra Lombera (Fraunhofer Institute for Wind Energy Systems)

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Thursday 8 June | Oral presentations

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ROOM STRAUSS 1		DOME 1		DOME 2	
Wavefield Separation and Modelling Chairpersons: M. Eckard (Wintershall Dea AG), X. Cheng (SLB)		Wells and Logs Chairpersons: A. Bounaim (SLB), M. Parotidis (Shell)		History Matching and 4D seismic Chairpersons: G. Michaud (Geosciences & Monitoring Consulting), M. Zhang (Delft Inversion)	
08:30	A new framework for k-space wave propagation by asymmetrical factorization of wavenumber-time domain wave propagators - H. Zhou (China University of Geosciences)	08:50	Analysis of Well Production Data Using Functional Data Analysis - H. Hamdi (University of Calgary)	08:30	Methodology and tools for incorporating time-lapse seismic data in assisted history matching - Johan Sverdrup - T. Målbakken (Equinor ASA)
08:50	Numerical simulation and propagation law of seismic wave field in the Loess Plateau of Ordos basin - C. Jiang (NWGI, Petrochina)	08:50	Machine Learning for Drill Cuttings Analysis: Label cleaning and lithology prediction - E. Tolstaya (Aramco Innovations LLC)	08:50	Enhanced History Matching Quality Check by Incorporating Metric Scorecard - J. Aponte (CNOOC International LTD)
09:10	3D finite-difference modelling of frequency-domain elastic wave equations using adaptive coefficients - S. Li (China University of Petroleum)	09:10	CNN segmentation as a basis for the processing of the cuttings data - A. Vereshagin (M Vest Energy)	09:10	The importance of a priori models in the Bayesian facies classification in carbonate reservoirs - F.J. Damasceno Fernandes (Universidade Federal Fluminense)
09:30	ML-based wavefield separation for shallow water OBN seismic data - J. Yoo (Aramco Overseas Company)	09:30	FMI Logs Deblurring and Inpainting Using Deep Learning - M. Al Jawad (King Fahd University of Petroleum & Minerals)	09:30	Characterising the Optimisation Search-Space of Assisted Seismic History Matching Problems - P. Mitchell (TAQA Bratani Limited)
09:50	Coffee break				
10:10	Wavefield separation using time-frequency polarization analysis - M. Kazemnia Kakhki (Federal University Of Rio De Janeiro)	10:10	Multi-attribute Seismic Data for Natural Gas Detection using LSTM - H. Cunha (PUC-RIO)	10:10	Seismic Tiles - a new way of working with seismic data - 4D examples - S. Torset (Equinor ASA)
10:30	Wavefield composition analysis from three-component beamforming improves thickness estimates of sedimentary layers - E. Obiri (University of Aberdeen)	10:30	A three-step approach to appropriate machine learning model selection for use in assisted well interpretation - E. Collett (Halliburton)	10:30	Application of multi-wave seismic data in the identification of dolomite of the Qixia Formation, Sichuan basin - X. Guo (NWGI)
10:50	A demultiple method based on Radon domain mode decomposition - A. Ma (China University Of Petroleum; KEY LABORATORY OF DEEP OIL AND GAS)			10:50	Fast and Reliable History Matching of Channel Reservoirs using Ensemble Kalman Filter with CAE and PCA - D. Kim (Seoul National University)
11:10	3D Marchenko multiple elimination - H. Zhou (China University of Geosciences)			11:10	Localised sensitivity analysis scheme for 4D seismic history matching parameterization - R. Amir Kolajooobi (Heriot-watt University)
11:30	Break				
13:45	Poster Sessions				
Signal Processing: Marine Vibrators Chairpersons: R.G.K. Johnston (BP Exploration Operating Co. Ltd), D. Holliday (SLB)		FWI and Inversion Chairperson: F. X. de Melo (SLB)		Fractures Media Chairpersons: B. Moradi (Three60 Energy Norway AS), M. Parotidis (Shell)	
14:45	Estimating the signature of a marine vibrator by joint inversion of hydrophone and accelerometer measurements - R. Telling (Shearwater GeoServices)	14:45	Geophysical inversion via dynamic and adaptive learning gaussian process with statistical sampling - D. Colombo (Saudi Aramco)	14:45	Azimuthal Inversion Applied to a Fracture Characterization Study: A Pre-salt Case Study, Brazil. - U. Freitas (CGG)
15:05	An approach to the removal marine vibrator Doppler shift correction for quadratic sweep - S. Yan (Jilin University)	15:05	A multi-model AI workflow - integrating from rock samples to basin-scale seismic-based rock property prediction - H. Nguyen (Earth Science Analytics AS)	15:05	Fracture characterization and its impact on oil production in naturally fractured reservoirs - R. Kharat (Montanuniversität)
15:25	Simultaneous deblending, deconvolution and Doppler-shift correction of marine vibrator data - A. Guillon (TotalEnergies E&P Research and Technology)	15:25	Estimating elastic properties from angle-stack seismic data via deep neural networks - H. Di (SLB)	15:25	Numerical modeling and simulation of multizone hydraulic fracturing using high aspect ratio interface elements - P. Cleto (UNESP)
15:45	A deconvolution-interpolation method to eliminate the Doppler effect of marine vibrators data in frequency-wavenumber domain - J. Zheng (Jilin University)	15:45	Plug-and-Play Stein variational gradient descent for Bayesian post-stack seismic inversion - M. Izzatullah (King Abdullah University of Science and Technology)	15:45	Multi-scale fractures modelling in fractured reservoirs model building: present-day approach and potential improvements - F. La Valle (Eni S.p.A.)
16:05	Coffee break				
Physics Based Modelling Chairpersons: M. Sarjaarvi (SLB), S.B. Fomel (University of Texas at Austin)					
16:25	Frequency-domain wave simulation using physics-informed neural networks (PINNs) with free surface boundary condition - Y. Wu (Harbin Institute of Technology)	16:25	Deep Learning to replace or augment model-based seismic inversion? - M. Ravasi (King Abdullah University of Science and Technology)	16:25	Identifying Governing Forces in Fractured Reservoir Using LSTM-Assisted Bayesian Inversion - Z. Zhang (King Abdullah University of Science and Technology)
16:45	GaborPINN: Efficient physics informed neural networks using multiplicative filtered networks - X. Huang (King Abdullah University of Science and Technology)	16:45	PoreFormer: A Novel Microporosity Characterization in Mudstone using a Deep Learning Vision Transformer Approach - I. Ferreira (King Fahd University Of Petroleum And Minerals)		
17:05	A hybrid modeling approach incorporating physical modeling and deep learning for multiphase flow simulation - Y. Wang (China University of Petroleum)	17:05	Permeability prediction using specific surface area and pore network parameters extracted from thin sections - W. Promrak (PTTEP)	17:05	Discrete fracture and matrix (DFM) modelling of chalk: From CT-scans to permeability estimations - C.A.S. Ferreira (Technical University Of Denmark)
17:25	A deep learning solution for computing seismic attenuated time - Y. He (Aramco Research Center)	17:25	An unsupervised approach for geoscientific data similarity analysis: well logs and thin sections applications - M. Sobreira (Petrobras)	17:25	Study on fracture prediction technology by physical simulation experiment - C. Jiang (PetroChina Research Institute of Expl. & Developm.)

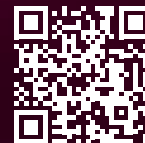
Technical Programme

Thursday 8 June | Oral presentations

Last updated 30 May

DOME 3		DOME 4	
Subsurface Characterization for Mineral Exploration and Mining Chairpersons: G. Marquis (University of Strasbourg), A.L. Tertois (AspenTech)		FWI: More Case Studies & Some Theory Chairpersons: G. Lambaré (CGG), O. Zdraveva (SLB)	
08:30	Searching for Copper in the age of Transition - the holistic exploration mindset - G. Baines (Halliburton)	08:30	Enabling full-waveform inversion to recover salt bodies in challenging conditions: A field data application - A. Alali (KAUST)
08:50	Complex overburden, stratigraphy and fault systems of the Kansanshi copper-gold deposits (Zambia): reflection seismic challenges - A. Malehmir (Uppsala University)	08:50	Anisotropic diffusion filter for 3D full waveform inversion: application to a North Sea dataset - L. Metivier (Univ. Grenoble Alpes)
09:10	Using Machine Learning-Based Data Factory to Unlock Mining in Australia for Environmental, Social and Corporate Governance - F. Baillard (Iraya Energies)	09:10	3D frequency-domain FWI of full-azimuth/long-offset OBN data - The Gorgon-data FWI case study - S. Operto (CNRS - Géoazur)
09:30	Synthetic, broadband MEMS, and DAS comparison - surface-borehole array for surface-wave analysis and mineral exploration. - Z. Wilczynski (Uppsala University)	09:30	An Application of the Time consistent Waveform INversion (TWIN) method to a marine dataset - A. Robin (TotalEnergies)
09:50	Coffee break		
10:10	Distributed acoustic sensing vertical seismic profiling in hardrock environment: case study from Koillismaa drillhole, Finland - M. Malinowski (Geological Survey of Finland (GTK))	10:10	Sparse adaptive waveform inversion for rapid sub-basalt prospect identification - M. Warner (S-Cube London & Imperial College London)
10:30	Insights into the Limerick Basin from geology and petrophysics-guided reprocessing of 2D seismic data - V. Susin (University College Dublin)	10:30	A computationally efficient probabilistic full waveform inversion: application to the BP model - S. Berti (University Of Florence; University of Pisa)
10:50	Tailings Pond Outfiltration Monitoring With Electrical Conductivity Surveying - P.J. Saksa (Geosto Oy)	10:50	Dynamic resolution TLFWI for velocity model building beyond the reach of diving waves - M. Wang (CGG)
11:10	Monitoring tidal water-column changes in ports using distributed acoustic sensing - M. Buisman (TU Delft)	11:10	High-resolution near surface velocity model building across the Delaware basin Fill zone using FWI - T. Krishnasamy (TGS)
11:30	Break		
13:45	Poster Sessions		
Integrated Approaches to Production Challenges Chairperson: E. Angerer (OMV Exploration & Production GmbH)			
14:45	Working with Inverted Elastic Attributes to De-risk Low Saturation Gas - S. AmiriBesheli (KUFPEC Australia)		
15:05	Case study: A brief history of seismic 4D effects on the Ivar Aasen field - J. Moen Lippard (AkerBP)		
15:25	Early warning ultra-light marine seismic 4D time-lapse detection system - P.E. Dhelie (AkerBP)		
15:45	Multi-scale Reservoir Characterization using LWD Technologies for Informed Operational Decisions, Yme field, Norway - P.H. Vieira De Luca (Repsol)		
16:05	Coffee break		
16:25	The Ærflugl Gas Field: Impact of reservoir zonation and compartmentalisation on water production - A. Hjellobakk (Aker BP)		
16:45	Proof Concept of Fiber Optic Data for RT Data Acquisition for Conformance Monitoring in EOR Project - M. Al Hashemi (Client)		
17:05	Improving Value by Inferring Buckley-Leverett Fractional-Flow Models from Field Data - I. Rumaidhi (PDO)		
17:25	Automating the well workover candidate identification process in one of Europe's largest onshore oil fields, Matzen - M. Vögele (OMV Exploration & Production GmbH)		

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Thursday 8 June | Poster presentations

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STOLZ FOYER

Poster: AVO methodology and case examples

13:45	Frequency-dependent AVO Based Prediction of Low-porosity Gas Sand - L. Cai (GeoSoftware)
	Lame's Parameter Utilization on Reservoir's Lithological and Pore-Fluid Characterization: Lower Pannonian Case Study - O. Al Marashly (University of Miskolc)
	Prestack inversion for porosity, fluid bulk modulus and C-factor decoupled amplitude variation with offset approximation - J. Zhang (China University of Petroleum-Beijing)
	Discussion on seismic prediction technology of thin interbed weak reflection area in Bohai A oilfield - F.Q. Li (Tianjin Branch of CNOOC Ltd)
	Seismic interpretation improvement method for gas cloud areas based on amplitude compensation and traces simulation - W. Li (CNOOC China Limited, Tianjin Branch)
	The optimized pre-stack inversion based on reflectivity method - G. Long (China University Of Petroleum)
	Introduce laboratory data into low-frequency model for improving seismic inversion efficiency - J. Sharifi (Ferdowsi University of Mashhad)
	The Application of Extended Elastic Impedance to Improve Reservoir Characterization: Pannonian Basin Case Study - O. Al Marashly (University of Miskolc)

Poster: Data & Computer Science

13:45	Deep Physics-Driven Stochastic AVA Inversion - P.Y. Burkle (Petrobras; Universidade Católica do Rio de Janeiro)
	Missing Seismic Trace Estimation using Generative Adversarial Network: Image-to-Image Translation Method - S. K. Sandasegaran (PETRONAS)
	Evaluating Machine Learning performance for seismic-based porosity prediction using synthetic models - E. Salomonsen (University of Stavanger)
	AI-assisted Oceanic Anoxic Events (OAEs) identification and prediction: A case from the Late Cretaceous OAE-2 - S. Allam (King Fahd University of Petroleum and Minerals)
	Accurate and parallelizable inverse Hankel transform for full waveform inversion - C. Oudshoorn (Aramco Overseas Company BV)
	Automated Deep Learning (AutoDL) for Facies Prediction: Implementation and Strategy - N. Davy (KFUPM)
	TPMR - A Novel Method for Automated Identification of Well Pressure Transients - B. Cui (University of Stavanger)
	Can ChatGPT write a review paper on full-waveform inversion? - T. Alkhalifah (King Fahd University of Petroleum and Minerals)
	Seismic impedance inversion based on convolutional neural network and uncertainty quantization - Y. Wang (China University of Petroleum)

Poster: Machine Learning for Seismic Interpretation

13:45	Impedance inversion based on deep learning considering structural constraints - Z. Tan (China University Of Petroleum)
	Depth Prediction Application in Horizontal Well Drilling using Acoustic Wave Curve Prediction based on SVM - J. Li (Bohai Petroleum Research Institute)
	Unlocking fast mini basins exploration workflows using deep learning salt detection - A. Krajnc-Giroud (TotalEnergies)
	Fault segmentation of seismic dataset based on supervised convolutional neural network (CNN) using VGG16 U-NET model - K. Mahanta (Dibrugarh University)
	The Application of S-Wave Velocity Prediction Based on LSTM Network in Sichuan Area - G. Feng (PetroChina)
	Deep Metric Learning: Towards Extraction of First-order Stratigraphic Units in 3D Seismic - D. Adelved (Aker BP; University of Oslo)
	Attribute Constraint-based 3D Res-UNet Network, Probability Grading and Fusion Display for Fault Reliability Evaluation - Z. Liu (China University of Petroleum)
	The direct reservoir inversion of PSDM based on deep learning - L. Dong (Cnpsc)

Poster: Micro-Processes in CO2 storage

13:45	Effects of impurities on CO2 storage in chalk reservoirs - K.L. Feilberg (Technical University of Denmark)
	Mechanistic Investigation of Vertical Sweep Efficiency in Miscible CO2-Water-Coinjection for EOR and CCUS - G. Yu (UAE University)
	Hydrogen-brine interfacial tension at subsurface conditions: Implication for hydrogen geo-storage - M. Hosseini (University of Waterloo)
	Multicomponent and multiphase CO2-brine system in microfluidic characterised in situ by Raman spectroscopy - M. Zajac (AGH University of Science and Technology)
	Supercritical CO2 injection in a depleted gas reservoir considering the Joule Thomson effect: a dynamic comparison - A.D. Blanco Pericana (REPSOL)
	Preliminary Screening and Ranking Assessment for Carbon Capture Use and Storage (CCUS) in Colombia Sedimentary Basins - Rodriguez-Ramirez (ADH, ENERGIEZ)
	Breakthrough in operational model: testing offshore focused seismic for CS monitoring in Denmark - L. Ollivier (SpotLight)
	Impact of Groundwater Flow Direction on Early CO2 Plume Migration in Dipping Aquifers - M. Awag (Heriot-Watt University)
	Enhanced CO2 Dissolution with Consideration of Capillary Heterogeneity in Saline Aquifers - X. Lyu (China University of Petroleum)
	A microfluidic study into salt precipitation in saline aquifers induced by continuous CO2 injection - C. Cheng (KIT)
	Investigation and Assessment of Technical and Economic Viability of CCUS Project in Scotian Shelf, Canada - A.S. Rizk (Khaldia Petroleum Company)
	An Evaluation of the South Morecambe Depleted Gas Field as a Carbon Dioxide Storage Site - C. Inglis (Spirit Energy)
	Multiscale Stratigraphic Reservoir Characterization for Flow and Storage of CO2: Roadmap for Modelling and Quantitative Understanding - G. Hampson (Imperial College London)

Technical Programme

Thursday 8 June | Poster presentations

Last updated 30 May

Poster: Reservoir Engineering

13:45	Machine learning petroelastic facies classification in a complex carbonate reservoir from Santos Basin, Brazil - H. Santana (State University of Campinas)
	Training Images Generation for Facies Modelling Based on the Ensemble Stratigraphic Forward Simulation Methods - M. Li (SINOPEC Petroleum Exploration and Production Research Institute)
	Investigating Carbonate Acidizing Using a Coupled Well – Reservoir Model - Q. Sahu (Saudi Aramco)
	Experimental investigation of injectivity loss - change in core permeability during re-injection of produced water - M. Kurbasov (Technical University Of Denmark)
	4D history matching using ESMDA and flow-based distance-to-front measurement - E. Barreia (TotalEnergies S.E.)
	A method of hydraulic fracture modeling in shale gas reservoir based on multi-point geostatistical approach - M. Li (Petroleum Exploration And Production Research Institute, Sinopec)
	Dynamic pore scale network modeling: Effect of contact angle - M. Amani (Heriot-Watt University)
	Logging lithofacies identification using Query by Committee strategy and Gaussian mixture Naive Bayes - Q. Ren (Hohai University)
	The non-standard approach to solving complex sand production issues - S. Kovacevic (NIS Serbia)
	Exterior Envelop Characterization Technologies of Carbonate Fault-controlled Paleokarst Reservoirs - Q. Ma (Sinopec Exploration & Production Research Institute)
	Analytical Process for Formation Evaluation and Real-Time Reservoir Zones Detection From Mud Gas Data - R. Valladares de Almeida (Repsol Sinopec Brasil)
	Validation of Models for Depletion in High Contrast Systems - M. King (Texas A&M University)
	Fracture-cavity carbonate reservoir identification based on adaptive seismic inversion - L. Yang (Sinopec Geophysical Research Institute)

Poster: Seismic Acquisition

13:45	A cost-effective and efficient solution undershooting technique for 2D seismic data acquisition in siltation area - R.W. Nurcahyo (ELNUSA)
	Quality evaluation method of raw seismic data based on wavelet consistency - F. Wu (BGP CNPC)
	The Application of Quaternion on Attitude Correction of Ocean Bottom Node - R. Lei (BGP CNPC)
	Retrieving low-frequency information from band-limited seismic post-stack data for improving impedance model using GADAM-based DNN - A. Dixit (IIT Kanpur)
	Improving robustness of 4D FWI to non-repeatability using Non-parametric residual statistics - D. DA SILVA (Universidade Federal do Rio Grande do Norte)
	Precision of DAS simulation for CO2 monitoring and FWI application - C. Shen (Project Team Makutu, Inria Bordeaux-Sud-Ouest)
	Vibrator similarity test based on GPS timing, synchronization and nodal system (post) - Y. Zhang (BGP)
	Joint OBN and 3D DAS-VSP data acquisition and processing in offshore Middle East - G. Yu (BGP Inc. CNPC)
	Novel method for UHR streamer shape reconstruction and improved receiver positioning: a conceptual overview - C. Chapeland (TU Delft)



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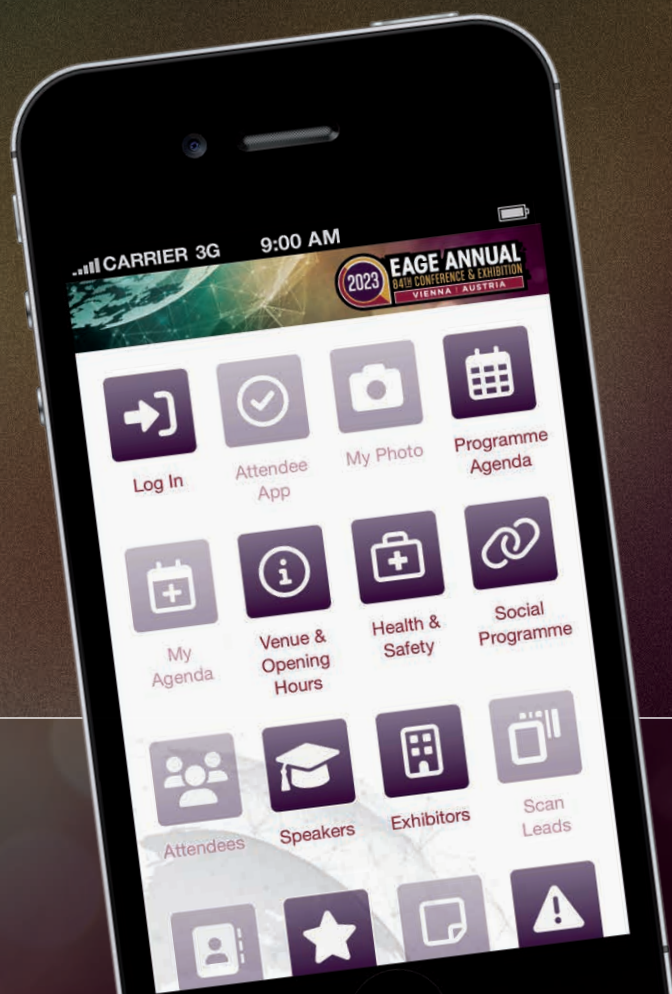


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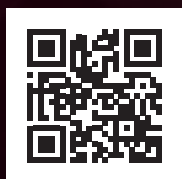
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June 2025	86 th EAGE Annual Conference & Exhibition

EUROPE OFFICE
+31 88 995 5055
EAGE@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
+57 310 861 07 09 EXT 116
AMERICAS@EAGE.ORG

HEAD OFFICE | KOSTERIJLAND 48 | 3981 AJ BUNNIK | THE NETHERLANDS | +31 88 995 5055 | EAGE@EAGE.ORG | WWW.EAGE.ORG



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