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18-21 OCTOBER 2021
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Technical Programme

Tuesday, 19 October | Oral presentations

 This presentation is pre-recorded

| ROOM 1 | | ROOM 2 | | ROOM 3 | |
|---|---|----------------------------------|--|----------------------------------|--|
| Digitalization & AI: Seismic Interpretation (Schlumberger) | | FWI Applications | | Gathers and Migration Approaches | |
| 08:30 | Deep Learning for Salt Body Detection: A Practical Approach - E. Zabihi Naeini (Earth Science Analytics) | 08:30 | Impact of streamer acquisition geometry on FWI Imaging - H. Kerrison (CGG) | 08:30 | Elastic Dynamically Focused Beam Migration in Anisotropic Media - Q. Liu (China University Of Petroleum(east China)) |
| 08:50 | Deep Bayesian Neural Networks for Fault Identification and Uncertainty Quantification - E. Zabihi Naeini (Earth Science Analytics) | 08:50 | FWI to full bandwidth with Vector Reflectivity and Inverse Scattering Imaging Condition, Clair field OBN - Ø. Korsmo (PGS) | 08:50 | Sparsity-Promoting Pseudo-Inverse Born Operator in the Presence of Density Variations: An Efficient Multi-Parameter Imaging Tool - M. Farshad (MINES ParisTech - PSL Research University) |
| 09:10 | Assisted Fault Interpretation by Multi-scale Dilated Convolutional Neural Network - F. Jiang (Halliburton Landmark) | 09:10 | Resolving 4D overburden changes with full-waveform inversion - O. Bukola (CGG) | 09:10 | Angle gathers from time-shift extended least-squares reverse-time migration - E. Duveneck (Shell Global Solutions International B.V.) |
| 09:30 | Characterizing Subsurface Damage Zones From 3D Seismic Data Using Artificial Neural Network Approach - L. Cui (China University Of Petroleum (east China)) | 09:30 | Full Waveform Inversion in an Anisotropic Earth: A Practical Workflow - T. Allemand (CGG) | 09:30 | Inverse Hessian estimation in least-squares migration using chains of operators - T. Tangkijwanichakul (University Of Texas Austin) |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| 10:10 | Deep Learning for Horizon Interpretation on 2D Seismic Data - T. Zhao (Schlumberger) | 10:10 | Multi-Parameter Pseudo Acoustic Full Waveform Inversion Method in Elastic World - Q. Li (China University of Petroleum) | 10:10 | Reverse time migration with frequency-dependent Q compensation accelerated with GPU computing - R. Cheng (BGT Inc) |
| 10:30 | Seismic FlowNet: Using Optical Flow Field for Dense Horizon Interpretation - Z. Li (Schlumberger) | 10:30 | Successive Full-Waveform Inversion of Surface Seismic and Seismic-While-Drilling Datasets without Low Frequencies - N. Kazemi (University of Calgary) | 10:30 | Preconditioning the variable-density least-squares reverse time migration via asymptotic Born inversion - H. Chauris (Mines ParisTech) |
| 10:50 | Deep learning seismic facies identification: the Total journey at SEAM AI hackathon - L. Boillot (TotalEnergies) | 10:50 | Simultaneous velocity and reflectivity inversion: FWI + LSRTM - Y. Yang (PGS) | 10:50 | Including Converted Waves in Full Wavefield Migration - L. Hoogerbrugge (Tu Delft) |
| 11:10 | GAN learning complex fluvial facies distribution from process-based modelling - C. Sun (Heriot-Watt University) | 11:10 | Unlocking unprecedented seismic resolution with FWI Imaging - Z. Wei (CGG) | 11:10 | The establishment and application of iterative spectral inversion - N. Guo (CNOOC Ltd Tianjin) |
| | Stratal Zonation using Hierarchical Deep Learning: A method to reduce labelling workload for network training - A. Maxwell (Bluware) | | | | Theory of Beam 15° One-Way Wave Prestack Depth Migration - B. Zhang (Tongji University) |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 1: How the oil industry is addressing the energymix to meet the goals of the transition era - Room 1 | | | | | |
| 12:45 | Lunch | 12:45 | Lunch | 12:45 | Lunch |
| Digitalization & AI: Seismic Data Processing I | | FWI Methods and Elastic Approach | | Imaging Methods | |
| 14:15 | Data-To-Data and Gradient-To-Gradient Translations in Geophysics Using Deep Neural Networks - J. Yao (Imperial College London) | 14:15 | Elastic Full-Waveform Inversion with Geologic Information for Tilted TI Media - E. Zabihi Naeini (Earth Science Analytics) | 14:15 | Q-Compensated Fourier Finite-Difference Wave-Equation Migration in Tilted Transversely Isotropic Media - C. Tang (TGS) |
| 14:35 | Filling gaps, replacing bad data zones and super-sampling of 3D seismic volumes through Machine Learning - P. De Groot (dGB Earth Sciences) | 14:35 | Explicit control of numerical dispersion and instability in elastic wavefield modeling and inversion - O.C. Aquino De Aragão (Center for Wave Phenomena, Colorado School of Mines) | 14:35 | Efficient Elastic Reverse Time Migration Using Decoupled Propagator for Multicomponent Seismic Data - Q. Du (China University of Petroleum (East China)) |
| 14:55 | MLReal: Bridging the gap between training on synthetic data and real data applications in machine learning - T. Alkhalifah (KAUST) | 14:55 | Optimal transport FWI with graph transform: Analysis and proposal of a partial shift strategy - F. Kpadonou (CGG) | 14:55 | Estimating subsurface P- and S-wave reflectivities using elastic TTI least-squares reverse-time migration - J. Yang (The University of Texas at Dallas) |
| 15:15 | Deep CNN for Coherent Seismic Noise Removal: A Perspective - A. Asgekar (Shell India Markets Private Limited) | 15:15 | Wavefield Inversion with Adaptive Regularization - H. Aghamiry (Université Côte d'Azur, CNRS, Observatoire de la Côte d'Azur, IRD, Géoazur) | 15:15 | Gaussian beam migration in 3D dip-angle domain based on gather optimization - S. Zhuang (China University Of Petroleum(East China)) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| 15:55 | Intelligent Seismic Deblending Based Deep Learning Based U-net - J. Li (Tongji University) | 15:55 | Enhanced FWI cycle-skipping mitigation by constrained correlation-based travelttime inversion - Q. Guo (Shearwater Geoservices) | 15:55 | Asymptotic Born inversion in elastic media - M. Farshad (MINES ParisTech - PSL Research University) |
| 16:15 | A Self-Evolving CNN Framework for Seismic Data Interpolation - Y. Wang (Tsinghua University) | 16:15 | Mitigating Cycle Skipping in Full-Waveform Inversion Using Partial Matching Filters - J. Cooper (CGG) | 16:15 | Acoustic-elastic coupled equations for joint elastic wave imaging of TS and sparse OBN/OBS data - P. Yu (Hohai University) |
| 16:35 | Machine-Learning-Driven Dispersion Curve Picking for Surface-Wave Analysis, Modelling, and Inversion - A. Kaul (Schlumberger) | 16:35 | Deep Learning of Bandwidth Extension from Seabed Seismic - M. Aharchaou (ExxonMobil) | 16:35 | Image-domain least-squares reverse-time migration using point spread functions - J. Bai (Emerson) |
| 16:55 | Deep Learning First Break Picking Technology Based on Operation Scene - N. Yudong (BGP Inc., China National Petroleum Corporation) | 16:55 | Computationally-Efficient Frequency-Domain Wavefield Reconstruction Inversion with Direct Solver - H. Aghamiry (Université Côte d'Azur, CNRS, Observatoire de la Côte d'Azur, IRD, Géoazur) | 16:55 | Efficient snapshot-free reverse time migration and computation of multiparameter gradients in full waveform inversion - J. Robertsson (ETH) |
| | An Adaptive Anomalous Amplitude Attenuation Method Based on Deep Neural Networks - X.Y. Tian (Tsinghua University) | | Robust Elastic Full Waveform Inversion Based on N-th Power Operation and Convolved Wavefields - P. Zhang (Jilin University) | | Application of the NIP wave theorem and an approximation for RPSM to zero offset - J. Schneider (Bureau of Applied Geophysics) |



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Tuesday, 19 October | Oral presentations

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| ROOM 4 | | ROOM 5 | | ROOM 6 | |
|---|--|---|---|---|---|
| CESM and EM Methods - Case Studies and New Developments | | Induced Seismicity (Dedicated Session) | | Seismic Interpretation - Lithology Mapping | |
| 08:30 | Application of Lundin's CSEM Strategy: De-Risking of a Shallow Prospect in the Barents Sea - L. Lorenz (Geonautika) | 08:30 | Mechanism and Management of Seismicity in Depleting Gas Reservoirs - H. De Pater (Fenix Consulting Delft) | 08:30 | A New Lithological Identification Factor and Its Application in Paleogene Reservoir Characterization - X. Xie (Bohai Oilfield Research Institute) |
| 08:50 | Approximation of Infrastructure Effects on Marine CSEM Data - J. Park (NGI) | 08:50 | (When) Do Earthquakes Respect Traffic Lights? - S. Baisch (Q-con GmbH) | 08:50 | Inversion of the reflected SH-wave for density and S-wave velocity structures - F. Dai (China University of Petroleum-Beijing) |
| 09:10 | Cost-Effective Salt Exit Velocity Retrieval Using Broadband CSEM - A. Zerilli (Petrobras) | 09:10 | Forecasting Earthquake Magnitudes Induced by Groningen Gas Production - S. Bourne (Shell Global Solutions International) | 09:10 | Inversion of Thin-Bedded Multi-Lithology Settings: What Are the Critical Requirements for a Successful Seismic Inversion? - H. Poore (Siccar Point Energy Ltd.) |
| 09:30 | Double-difference strategy for 3D time-lapse CSEM: application to the Reykjanes geothermal field - F. Dubois (Brgm) | 09:30 | Seismicity-Permeability Coupling in the Breaching and Sealing of Reservoirs and Caprocks - D. Elsworth (Pennsylvania State University) | 09:30 | Large Scale Shale Characterisation: Composition and Permeability - R. Beloborodov (CSIRO) |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| 10:10 | Boost the efficiency of 3D CSEM modelling using graphics processing units - P. Yang (Harbin Institute of Technology) | 10:10 | Groningen Deep-Seated Fault Systems and Fault Characteristics at Seismic Event Locations - M. Kortekaas (EBN B.V.) | 10:10 | Wave-Equation Based 4D Joint Inversion of PP and PS Seismic Data - P.E. Dhelle (Lundin Energy Norway AS) |
| 10:30 | Ambiguity in EM images reduced by Gauss-Newton inversion: a case study of a basement high - R. Streich (Shell Global Solutions International BV) | 10:30 | Risk Management for Induced Seismicity: A Regulator View - W. Van Der Zee (Staatstoelicht Op De Mijnen) | 10:30 | PP-PS Joint Inversion and Horizon Mapping Analysis of the 3D3C Multicomponent Dataset of Bandurria Norte, Argentina - A. Kuha (Wintershall Dea) |
| 10:50 | 3D inversion of airborne EM data with topography - Y. Qi (Chang'an University) | | | | |
| 11:10 | Adaptive finite-element method for time-domain airborne EM over an anisotropic earth - Y. Qi (Chang'an University) | | | | |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 1: How the oil industry is addressing the energymix to meet the goals of the transition era - Room 1 | | | | | |
| 12:45 | Lunch | 12:45 | Lunch | 12:45 | Lunch |
| CESM and EM Methods - Multidisciplinary Approach | | Modified Salinity Water Flooding in Carbonate Reservoirs 1 (Dedicated session) | | Seismic Interpretation - Feasibility Studies | |
| 14:15 | GPR Full Waveform Frequency-Space Domain Modeling by the Full Spectral Methods - C. Shin (Seoul National University) | 14:15 | Feasibility Study of Small Scale Core Flooding Considering Low Salinity Injection in Danish North Sea Reservoirs - S. Mohammadkhani (GEUS) | 14:15 | Estimation of Seismic Response by AVO Inversion Due to Changes in Oil-Saturation and Pressure During Production - N. Ahmed (University Of Stavanger) |
| 14:35 | Gramian Constraints in Electromagnetic Multi-Physics Joint Inversion - C. Shin (Seoul National University) | 14:35 | Pore-Scale Imaging of Controlled-Salinity Waterflooding in a Heterogeneous Carbonate Rock at Reservoir Conditions - A. Selem (Imperial College London) | 14:35 | Examining different noise scenarios for the probabilistic inversion of seismic data - A. Heidari (University of Tehran) |
| 14:55 | Deep electrical structure of Cascadia derived from 3-D anisotropic inversion of USArray long-period magnetotelluric data - Z. Rong (Jilin University) | 14:55 | Experimental Investigation of Low Salinity Water-Flooding Efficiency in a Danish North Sea Chalk Reservoir - R. Mokhtari (Technical University of Denmark (DTU)) | 14:55 | Seismic Reservoir Characterisation using seismic inversion: A case study showing importance of prior model - P. Kakaire (Total E&P) |
| 15:15 | Joint Inversion of MT and DC Resistivity using Meta-Heuristic Algorithm with Gibb's Sampler - M. Mukesh (IIT(ISM)DHANBAD) | 15:15 | Effect of Divalent Ions on Surface Charge, Wettability, and Wettability Alteration Processes in Chalk - T. Puntervold (University of Stavanger) | 15:15 | Robust Estimation of Uncertainties of AVO Attribute Anomalies - F. Pivot (Total Sa) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| 15:55 | A New Centroid Frequency-Based Algorithm to Estimate the Attenuation of Ground Penetrating Radar - J. Baniamerian (University Of Roma Tre) | 15:55 | Zeta Potential in Intact Natural Carbonates at Reservoir Conditions and Implications for Controlled Salinity Waterflooding - H. Collini (Imperial College) | 15:55 | Impact of Multiple Scattering on Post-Stack Seismic Inversion: An Example from the North Sea Brasse Discovery - D. Gisolf (Delft Inversion) |
| 16:15 | Characterizing deep hydrothermal fluid circulation in the Upper Rhine Graben (France) with electromagnetic methods - M. Darnet (BRGM) | 16:15 | Modified Salinity Waterflood Compositions Based on Multi-Component Ion-Exchange - M. Yutkin (King Abdullah University of Science and Technology) | 16:15 | A New Integrated Workflow to Generate AVO Feasibility Maps for Prospect De-Risking - P. Avseth (Dig Science) |
| 16:35 | Application of geophysical tools for evaluation of adequate ponds for Aquaculture - P.A. Chira Oliva (Federal University of Para) | 16:35 | An Overview and Evaluation of the Mechanistic Models for Wettability Change in Modified-Salinity Waterflooding in Carbonates - M. Bonto (Technical University Of Denmark) | 16:35 | Analysis of the effect for strong anisotropy on AVO in TI medium with vertical symmetry axis - K. Liang (China University Of Petroleum (East China)) |
| 16:55 | Mineral Prospecting for Copper-Molybdenum Ores in Northern Kazakhstan Using Electromagnetic Sensing and Induced Polarization Technology (EMS-IP) - Y. Davydenko (Irkutsk National Research Technical University) | | | 16:55 | AVO Sensitivity Factors of Heavy Oil Reservoirs and the Application on Petrophysical Property Prediction - X. Xie (Bohai Oilfield Research Institute) |

Technical Programme

Tuesday, 19 October | Oral presentations

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| ROOM 7 | | ROOM 8 | | ROOM 9 | |
|---|--|---|---|---|---|
| Seismic Acquisition & Processing - Acquisition Geometries and Hardware I | | Multiple Attenuation - Interbed Demultiple Case Studies | | Seismic Processing - Application Examples | |
| 08:30 | Design of Non-Replicated Acquisition Geometries for Time-Lapse Measurements - G. Blacquièrre (Delft University of Technology) | 08:30 | Fast and efficient up-down decomposition and deconvolution for OBS data - D. Lokshtanov (Equinor ASA) | 08:30 | Imaging Rich Azimuth Towed Streamer Data West of Shetland - H. Moore (CGG) |
| 08:50 | Cheaper and better long offset nodal surveys based on low-frequency enhanced sources - G. Baeten (Shell International E&P BV) | 08:50 | Interbed Multiples Attenuation Using 3D Complex Wavelet Transform - F. Chen (Tarim Oilfield Company, China National Petroleum Corporation) | 08:50 | Ultra-high density land nodal seismic – Processing challenges and rewards - F. Buriola (CGG) |
| 09:10 | Development of Ultra-Deep Sparse Seismic Source Technology for 4D Reservoir Monitoring - P.E. Dhelie (Lundin Energy Norway AS) | 09:10 | Marchenko Multiple Elimination in a Resonant Pinch-Out Model - E. Slob (Delft University of Technology) | 09:10 | Research and Application of Static Correction Method in the Mountainous Region of the Qinghai-Tibet Plateau - Y. Ling (Northwest Branch, Research Institute of Petroleum Exploration&Development, Petrochina) |
| 09:30 | Continuous Wavefields Method – The Acoustic Wavefield Generated by the Seismic Vessel - S. Hegna (PGS) | 09:30 | Sparse wave-equation deconvolution imaging for improved shallow water demultiple - H. Moore (CGG) | 09:30 | Study and Application of Static Correction Method for Complex Surface in Loess Plateau - H. Li (RIPED--NWGI, Petrochina) |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| 10:10 | Inversion of Explosive Source Land Seismic Data to Determine Source Parameters - A.M. Ziolkowski (University of Edinburgh) | 10:10 | Internal multiple elimination in the Vøring Basin: a comparison of two approaches - H. Masoomzadeh (TGS) | 10:10 | The Application of Yu's Broadband Wavelet in Thin Reservoir Description - D.J. Hou (Cnoc) |
| 10:30 | Efficient Clock Drift Corrections and Self-Surveys for Nimble Nodes - A. Crosby (BP Exploration Operating Co. Ltd) | 10:30 | Deep learning-based dealiasing for estimated surface-related multiples from limited sources - D. Zhang (Delft University of Technology) | 10:30 | Application of data Regularization Based on Optimized Matching Pursuit method in Qaidam basin - Y. Ling (Northwest Branch, Research Institute of Petroleum Exploration&Development, Petrochina) |
| 10:50 | High-Quality of True Seismic Amplitude, Acoustic Impedance and Broadband Data Recorded with the FreeCable Method - E. Bathellier (Kietta) | 10:50 | Advanced and comprehensive multiple attenuation in the Middle East - A case study from onshore Oman - A. Abdullah (Schlumberger) | 10:50 | Research and Application of High-precision Matching Processing Technology for Mixed Sources in Western China - H. Meng (Research Institute of Petroleum Exploration & Development-Northwest(NWGI), PetroChina) |
| 11:10 | Acquisition in Restricted Area with Massive Channels Digital Sensor - H. Jaragh (Kuwait Oil Company) | | | 11:10 | Application of Full-layer Q Compensation Technology in Shale Oil Sweet Spot Prediction in Songliao Basin - G. Xianwei (Bgp.cnpc) |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 1: How the oil industry is addressing the energymix to meet the goals of the transition era - Room 1 | | | | | |
| 12:45 | Lunch | 12:45 | Lunch | 12:45 | Lunch |
| Simultaneous Sources | | Multiple Attenuation - Demultiple Developments and Case Studies | | Seismic Interpretation - Theoretical Advances I | |
| 14:15 | 3D Towed Marine Signal Apparition Multi-Source Acquisition over Troll: Results and Comparisons Against Conventional Production Seismics - J. Robertsson (ETH) | 14:15 | Synthesis of Multiple-Free Plane-Wave Responses - E. Slob (Delft University of Technology) | 14:15 | A New Acoustic Assumption that Mitigates the S-Waves Artifacts in Orthorhombic Media - M.M. Abedi (BCAM) |
| 14:35 | Acquisition and processing of Troll apparition 3D streamer data - S. Grien (Shearwater GeoServices) | 14:35 | Pre-migration residual multiple subtraction using post-migration matching for North Sea OBN data - G. Jones (Cgg) | 14:35 | Nonlinear AVA Inversion Based on Bayesian Theory for VTI Media - L. Zhou (Hunan University of Science and Technology) |
| 14:55 | An OBS Multiple Attenuation Approach Enabled by Signal Apparition Encoded Multi-Source Acquisition: A Case Study - J. Robertsson (ETH) | 14:55 | Removal of frequency notches in marine seismic data acquired by a deeply towed source - H. Ozasa (Kyoto University) | 14:55 | Shear waves in elliptical orthorhombic media - A. Stavvas (Norwegian University of Science & Technology) |
| 15:15 | Six Source, Three Vessel Deblending Effects on Imaging of Real World Long Offset OBN Data - C. Udengaard (TGS) | 15:15 | Data-driven prediction of downgoing free-surface multiples for ocean-bottom node data - P. Caprioli (WesternGeco) | 15:15 | FACIVAZ - Full Azimuth Differential Seismic Facies Analysis Technology for Predicting Oil Saturated Fractured Reservoirs - Z. Koren (Paradigm) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| 15:55 | High resolution meets high efficiency with an ultra-wide-tow penta source solution in the Barents Sea - J. Oukili (PGS) | 15:55 | Data-driven multiple suppression for laterally varying overburden with thin beds - H. Peng (Utrecht University) | 15:55 | Eigenray in 3D Heterogeneous General Anisotropic Media: Kinematics - Z. Koren (Paradigm) |
| 16:15 | Blended Acquisition with Temporally Signatured/Modulated and Spatially Dispersed Source Array: Productivity Enhancement in a Pilot Survey - T. Ishiyama (Inpex Corporation) | 16:15 | Quality control of under-constrained Marchenko equation solvers in complex media using reference focusing functions - M. Dukalski (Aramco Overseas Company B.V.) | 16:15 | Eigenray in 3D Heterogeneous General Anisotropic Media: Dynamics - I. Ravve (Emerson, Department of Research & Development) |
| 16:35 | Deblending via Regularization by Denoising - B. Bahia (University of Alberta) | 16:35 | Internal multiple elimination by an extended 3D single-sided autofocusing and the application to subsalt imaging - Z. Gu (Zhejiang University, University of California, Santa Cruz) | 16:35 | Three-Dimensional Numerical Study of Frequency-Dependent Anisotropy of Cracked Rocks Due to Squirt Flow - Y. Alkhimenkov (University of Lausanne) |
| 16:55 | Multidimensional apparition de-blending through sparse inversion - L. Casasanta (Shearwater Geoservices) | 16:55 | Partitioned-Wavefield Adaptive Subtraction - A. Ali (Schlumberger) | 16:55 | Brittleness prediction and azimuthal AVO analysis in unconventional reservoir for multi stage hydraulic fracturing efficiency improving - B. Plotnikov (Gazpromneft - Technological Partnership) |
| | | | The propagation phenomenon of multiple waves and ghost waves in seismic physical modeling experiment - G. Wang (PetroChina) | | |



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| ROOM 10 | ROOM 11 | ROOM 12 |
|---|---|--|
| Carbonates and Mixed Systems | Wireline and LWD Logging – Analysis and Interpretation | Production & Management - EOR/IOR I |
| 08:30 Multiscale core-seismic analysis for karst characterisation of MX field, Central Luconia Province, Offshore Sarawak, Malaysia. - S.S. Ab Rahman (Universiti Teknologi PETRONAS) | 08:30 “Sharing Private” Multi-task Learning for Petrophysical Parameters Prediction with Logs - R. Shao (China University of Petroleum) | 08:30 Correction of Terminal Saturations for Capillary End Effects - A. Alsofi (Saudi Aramco) |
| 08:50 3D Stratigraphic Forward Modelling of the Facies Distribution and Evolution of Lluccmajor Platform, Mallorca Island - T. Tella (University Of Potsdam) | 08:50 Fracture aperture prediction method based on hierarchical expert committee machine in tight clastic reservoir - Y. Zhou (China University of Petroleum (East China)) | 08:50 Coarsening of Foam in Two Model Fractures with Different Roughness - K. Li (Technology University of Delft) |
| 09:10 Lithology of a Mixed Siliciclastic–Carbonate–Evaporite System: Triassic Jialingjiang Formation, Sichuan Basin, China - Z. Xu (Research Institute Of Petroleum Exploration And Development) | 09:10 Fast 3D simulation of logging-while-drilling extra-deep directional electromagnetic measurements in high-angle and horizontal wells - L. Wang (China University Of Petroleum) | 09:10 Role of Prolonged Successive Fluid Flow on the Performance of Relative Permeability Modifiers in Gas Reservoirs - F. Alshajalee (Curtin University) |
| 09:30 Challenging Middle Eastern Stratigraphic Misconceptions – An Example for Creation and Infill of the Gotnia Basin - C. Gravestock (Halliburton) | 09:30 Effect of the azimuthal fluid channel in a cased borehole on multipole dispersions - K. Kayama (Kyoto University) | 09:30 Evaluation the Impact of Mineralogical Composition of Reservoir Rocks on Wettability during Surfactant Flooding Processes - A. Davarpanah (Aberystwyth University) |
| 09:50 Coffee break | 09:50 Coffee break | 09:50 Coffee break |
| 10:10 Early diagenesis of organic matter in two lacustrine evaporitic environments in Brazil - C. Oliveira (Vrije Universiteit Amsterdam) | 10:10 Fast and efficient tool for modelling wellbore far-field sonic imaging - T. Zharnikov (Aramco Research Center - Moscow, Aramco Innovations LLC) | 10:10 A Rapid Test to Evaluate Nanofluids for Selected Malaysian Oilfields with Limited Cores - L. Hendraningrat (PETRONAS) |
| 10:30 Determination of petrophysical property cutoffs of tight lacustrine carbonate reservoir, Qaidam Basin, China - S. Zhang (Research institute of Petroleum exploration & development-NorthWest(NWGI),PetroChina) | 10:30 Drilling Torque-Acoustic Logging: an effective duo for calibrating near -surface seismic data. - J. Mari (Sorbonne Université) | 10:30 Transportation of Alkalinity in Sandstone for EOR Purpose - M.A.I. Khan (University Of Stavanger) |
| 10:50 Precipitation of Siderite in Hydrocarbon Environment - M. Abdulkarim (University) | 10:50 Electromagnetic Sounding with a Toroidal Source in Vertical and Deviated Oil Wells: Numerical Simulation - I. Mikhaylov (Novosibirsk State University) | 10:50 Optimising Nanoparticles Mixture for Enhanced Oil Recovery - H. Eltoum (China University Of Petroleum Beijing) |
| | 11:10 Electric imaging fusion technique combining singular spectrum interpolation with mathematical morphology in Amu Darya Basin - X. Li (China Petroleum Logging Co. Ltd.) | 11:10 A Comprehensive Study for Evaluation of Imidazolium Based Ionic Liquid for Application in Enhanced Oil Recovery - P. Pillai (Indian Institute Of Technology (Indian School Of Mines) Dhanbad) |
| 11:30 Coffee break | 11:30 Coffee break | 11:30 Coffee break |
| 11:45 Forum Session 1: How the oil industry is addressing the energymix to meet the goals of the transition era - Room 1 | | |
| 12:45 Lunch | 12:45 Lunch | 12:45 Lunch |
| Sedimentology, Stratigraphy and Reservoir Quality in Clastic Sequences | Petrophysics – Coring, Core Descriptions & Interpretation | Low Frequency Seismic Data Acquisition and its Impact on Imaging and Inversion 1 - Hardware (Dedicated Session) |
| 14:15 Tertiary Technostratigraphic Evolution of the Veslemøy High and Sarvestnaget Basin, Western Barents Sea - D. Marin (University of Stavanger) | 14:15 Numerical Investigations on the Transport Properties of Thermal Neutron in Saturated Porous Media with Digital Rock - J. Zeng (China University Of Petroleum-Beijing) | Land Seismic – How Low Can You Practically go - B. Duijndam (Duijndam.dev) |
| 14:35 A Source-to-Sink and Reservoir Quality Prediction Workflow: The Offshore Nile Delta - L. Fielding (Petryx Ltd) | 14:35 Method for predicting irreducible water saturation of tight sandstone reservoirs based on nuclear magnetic resonance logging - J. Liu (China University of Petroleum) | Seismic Equipment for Effective Low-Frequency Land Acquisition - N. Tellier (Sercel) |
| 14:55 Lithological prediction in contourites and bottom-current reworked sediments: a classification that links environment, processes and facies - F. Raison (TotalEnergies) | 14:55 The Permeability Calculation of the Digital Rock by a New Finite Difference Method - S. Wei (Shandong Transportation Institute) | The Elephant™ impulsive land source - J. Archer (SAExploration) |
| 15:15 Depositional Environment, Geochemistry, Diagenesis and Stratigraphy of the Early Paleocene Hangu Formation, Salt Range, Pakistan - S. Sajjan (Student) | 15:15 Comparing Acoustic Properties of Clastic, Mixed Clastic-Carbonate, and Non-Marine to Full-Marine Carbonate Sedimentary Systems - J.J. Reijmer (Reijmer GeoConsulting - Vrije Universiteit Amsterdam) | Robust Inversion of Land Seismic Dynamite Data for Source Signature Determination - A.M. Ziolkowski (University of Edinburgh) |
| 15:35 Coffee break | 15:35 Coffee break | Tuesday Discussion 1 - N. Tellier (Sercel) |
| 15:55 Impacts of Feldspar Dissolution, Calcite Cementation and Clay Growth on Pore Structure - N. Zhou (China University of Petroleum (East China)) | 15:55 Replication of Carbonate Reservoir Pores at the Original Scale Using 3D Printing - S. Ishutov (University Of Alberta) | New Marine Sources: Where Are We Now? - J. Dellinger (BP America Inc.) |
| 16:15 Characteristics and Controlling Factors of Deep Buried Reservoir in the Southern Margin of Junggar Basin - X. Si (Petrochina Hangzhou Research Institute Of Geology) | 16:15 A novel method to correct the effect of the internal gradients on the NMR T2 spectrum - J. Liu (PetroChina Research Institute of Petroleum Exploration and Development-Northwest) | MEMS-Based OBN: A Powerful 3C Solution for High Data Quality and Fidelity - N. Tellier (Sercel) |
| 16:35 Triassic and Jurassic porosity and permeability relationships from a cross-border sequence stratigraphic framework in North Sea - A. Kurobasa (TGS) | | Continuous Wavefields Method - Low Frequency Considerations - S. Hegna (PGS) |
| 16:55 Logging Identification for Diagenetic Facies—An Example in Lower Jurassic Ahe Formation, Tarim Basin, China - Z. Li (The university of manchester) | | Ultra Low Frequency Signal from Pneumatic Seismic Sources: How Low Can We Go? - S. Ronen (Totum Geosolutions) |
| | | Enhanced Low Frequency Signal-to-Noise Characteristics of an Airgun Technology Based Source - J. Brittan (ION) |
| | | Tuesday Discussion 2 - F. Ten Kroode |

Technical Programme

Tuesday, 19 October | Oral presentations

 This presentation is pre-recorded

| ROOM 13 | ROOM 14 | ROOM 15 |
|--|---|---|
| Time-Lapse Interpretation and Value | Geomechanics & Pore Pressure I | Geothermal Energy - Regional Case Studies |
| 08:30  Integrating Time-Shift and Amplitude Signal to Resolve Complex 4D Responses - M. Wingham (BP) | 08:30  The impact of fluid yield stress on hydraulic fracture propagation - E. Kanin (Skolkovo Institute of Science and Technology) | 08:30  VSP Study Using DAS at the Medipolis Geothermal Well and Implication of a Deep High-Vp/Vs Zone - J. Kasahara (ENAA) |
| 08:50 Time-Lapse Seismic Overburden Monitoring with Geomechanical Regularisation - A. Cherrett (Total Upstream Denmark) | 08:50 Integrated Reservoir and Geomechanics Analysis Using Novel Thermal Constitutive Model - T. Settari (TRS Energy Consultants) | 08:50 The Dutch SCAN Geothermal Seismic Exploration Program – Current Status and Future Plans - J. Rehling (EBN B.V.) |
| 09:10  4D Seismic Geobody Propagation for Injected Volumes Estimation - Z. Ternisien (Total) | 09:10 Subsidence Analysis in the Italian Po Plain Area: An Extended Case Study - V. Rocca (Politecnico di Torino) | 09:10 Regional Geological Evaluation for the SCAN Geothermal Exploration Campaign, the Netherlands - M. Ter Borgh (EBN B.V.) |
| 09:30 Is there value in 4D Elastic Inversion? - T.D. Blanchard (Total SA) | 09:30  Stress Field Rotations at the Tip of Hydraulic Fractures: An Explanation for Half-Moon Events? - N. Boitz (Freie Universitaet Berlin) | 09:30 Fracture Flow Mapping for Geothermal Energy Projects - An Example from Norway - R. Van De Ven (Ruden As) |
| 09:50 Coffee break | 09:50 Coffee break | 09:50 Coffee break |
| 10:10  Seismic history matching in the pressure and saturation domain for reservoir connectivity assessment - G. Corte (Heriot-Watt University) | 10:10 Structural Restoration of Geological Structures with Viscous Stokes Flow - Principle and First Results - M. Schuh-Senlis (Asga) | 10:10  Seismic Monitoring of the United Downs Deep Geothermal Power Project (UDDGP) Site with Public Seismic Networks - G. Rodriguez-Pradilla (University of Bristol) |
| 10:30  4D Sensitivity to Dynamic Reservoir Properties on a Carbonate Field: an insight into 4D Monitoring Strategy - G. Berthereau (North Oil Company) | 10:30  Numerical near-wellbore and stability analysis for inclined boreholes in plastic rocks. - D. Sabitov (Aramco Innovations, LLC) | 10:30 A Comparison of Predicted and Actual Reservoir Quality of Geothermal Projects in the Slochteren Formation - L. Borst (IF Technology) |
| 10:50 Assessing data error for 4D Seismic History Matching: Uncertainties from processing workflow - M. Hatab (Heriot-Watt University) | 10:50 Calibration of a 3D Reservoir Geomechanics Model with GPS, Bathymetry and 4D seismic - P. Shotton (TotalEnergies) | 10:50  Exploring New Geothermal Reservoirs in the Ohnuma Well in Honshu, Japan Using Enhanced DAS Seismic Methods - J. Kasahara (ENAA) |
| 11:10  Integration of Reservoir, Rock Physics, Seismic, and Geomechanical Modelling for CO2 Injection in Carbonate Reef Reservoir - Y. Nuwara (Research Institute of Innovative Technology for the Earth) | 11:10  Application of Stochastic Method for Geomechanical Parameters Under Uncertainty Quantification to Design Mud Window - M.A. Ebrahimi (Amirkabir University Of Technology) | 11:10 Characterization deep geothermal resources from the Paris Basin (France) with quantitative interpretation of legacy seismic data - M. Darnet (BRGM) |
| One seismic source and receiver couple to detect steam effects on legacy data in Surmont, Canada. - V. Brun (SpotLight) |  Extension of Unified Fracture Design (UFD) Concept to Naturally Fractured Formations - Y. Samarkin (King Fahd University of Petroleum & Minerals (KFUPM)) | Play-Based Exploration and Development Plan for Geothermal Energy in the Netherlands - F. Vinci (Panterra Geoconsultants) |
| 11:30 Coffee break | 11:30 Coffee break | 11:30 Coffee break |
| 11:45 Forum Session 1: How the oil industry is addressing the energymix to meet the goals of the transition era - Room 1 | | |
| 12:45 Lunch | 12:45 Lunch | 12:45 Lunch |
| Maximising Value from Producing Fields | Geomechanics & Pore Pressure II | Naturally Fractured Reservoir |
| 14:15 Seismic as the Missing Link: Unravelling Complexities and Opportunities in a Mature Brown Field - S.A. Ahmad Hawari (Petronas Carigali Sdn Bhd) | 14:15  Integrating Rock Physics into Basin Modeling to Predict Elastic Properties - W. Alkawai (Saudi Aramco) | 14:15  Geological Modeling and Development Strategy Optimization of Fractured-Caved Carbonate Reservoirs - Y. Li (RIPED) |
| 14:35 Data Integration to Evaluate the Unquantified Upside of a Field in the Gulf of Mexico Plains - B. Solarte (Sydri Energy) | 14:35 Subsidence, Uplift and Shift Due to Fluid Extraction and Production in a Finite Reservoir - A. Dyskin (University Of Western Australia) | 14:35  Structural and Depositional Features Controlling Permeability on Carbonate Platforms - R. Loza Espejel (Cardiff University) |
| 14:55  Delta Facies Control on Production and Development Strategy for Recovery Factor Increase in Tivacuno Oil Field - N.H. Orellana Arichabala (Repsol) | 14:55  Numerical study of rock deformation processes at core recovery - E. Grishko (Skolkovo Institute of Science and Technology) | 14:55 Challenging Appraisal of Tight Palaeozoic Reservoirs in Algeria; Fault and Fracture Network Analyses and Modeling - J. Van Dijk (OCRE Geoscience Services) |
| 15:15  Optimization of Cold Production with Horizontal Wells in Foamy Extra-Heavy Oil Reservoirs - Z. Yang (Petrochina Research Institute Of Petroleum Exploration And Development) | 15:15 Impact of Impurities and Structural Analysis of Salt Rock for Underground Gas Storage - C. Martin-Clave (University of Nottingham) | 15:15  Characterization and Modeling of the Vug and Fracture Network Affecting a Carbonate Reservoir (KMZ - Mexico) - L. Micarelli (Beicip-Franlab) |
| 15:35 Coffee break | 15:35 Coffee break | 15:35 Coffee break |
| Fields in Development - Using Integrated Modeling for Production Optimization | | |
| 15:55 Integrated Reservoir Geology, Seismic Facies, and Production Studies to Determine the Potential of Well Development Area - A. Zhumabekov (China University Of Petroleum, Beijing) | 15:55  Correcting Density/Sonic Logs for Total Organic Carbon to Reduce Uncertainty in Pore Pressure Prediction - S. Green (Ikon Science) | 15:55 Natural Fractures and Sedimentology of a Heterogeneous Reservoir: The Valdemar Field, Danish North Sea - A.C. Glad (Technical Univeristy Of Denmark) |
| 16:15 Efficient Development of the Formation System of the Oil and Gas Field Using Integrated Modeling - E. Bogdanov (Gazpromneft Science & Technology Centre) | 16:15  Mechanism of Overpressure Generation in the Paleocene Shahejie Formation in the Linnan Sag, Eastern China - C. Li (Key Laboratory of Petroleum Resources Research, Chinese Academy of Sciences) | 16:15  Natural fractures prediction in a lacustrine carbonate reservoir integrating 3D structural restoration and seismic AVAZ techniques - P.H. Silvaný Sales (Petrobras) |
| 16:35  Comprehensive Validation of Current Field Development and Production Operation Strategy with Integrated Asset Modeling Approach - J. Dudek (Polish Oil & Gas Company (PGNiG SA)) | 16:35  Monitoring of CO2 saturation plume movement from time-lapse inverted-seismic and gravity data using an ensemble-based method - T. Bhakta (Norwegian Research Centre (norce)) | 16:35 The DMX Protocol; Ringing in a New Era in Discrete 3D Fault and Fracture Modeling - J. Van Dijk (OCRE Geoscience Services) |
| | 16:55 Boundary Conditions for Geomechanical Simulations - J. Herwanger (MP Geomechanics) | 16:55 Natural Fracture Prediction using Geomechanical Forward Modelling in Jabung Block, South Sumatra Basin, Indonesia - M. Risayd (PetroChina) |
| | |  Influencing Factors of Sand Production Pressure Difference in Naturally Fractured Reservoir - Q. Chen (Petrochina) |



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Tuesday, 19 October | Oral presentations

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| ROOM 16 | | ROOM 20 | | ONLINE | |
|---|---|---|---|---|--|
| Key Innovations and Potential Game Changers (Dedicated Session) | | Data Driven Methodologies I (SPE) | | | |
| 08:30 | Benefits of Digital for Better Exploration Planning and Execution - C. Le Turdu (Schlumberger) | 08:30 | Conditioning Model Ensembles to Various Observed Data by Applying Machine Learning Augmented Workflows - G. Vanegas Cabas (OMV E&P) | | |
| 08:50 | Subsurface Temperature Measurement Using Electromagnetic Waves and Machine Learning for Enhanced Oil Recovery - K. Van Den Doel (Adrok Ltd) | 08:50 | Bayesian Predictive Performance Assessment of Rate-time Models for Unconventional Production Forecasting - L. Ruiz Maraggi (The University of Texas at Austin) | | |
| 09:10 | Geothermal plant monitoring using innovative Distributed Fibre Optic Sensing technologies - C. Jestin (FEBUS OPTICS) | 09:10 | Classification and Localization of Low-Frequency DAS Strain Rate Patterns with Convolutional Neural Networks - D. Zhu (Texas A&M University) | | |
| 09:30 | Operating the Absolute Quantum Gravimeter for Reservoir Monitoring - J. Lautier Gaud (Muquans) | 09:30 | Deep Learning Assisted Doppler Sensing for Hydrocarbon Downhole Flow Velocity Estimation - K. Katterbauer (Saudi Aramco) | | |
| 09:50 | Coffee break | 09:50 | Coffee break | | |
| 10:10 | Why FWI Isn't the Only Answer in Seismic Velocity Model Building - J.T. Etgen (BP America Inc.) | 10:10 | A Novel Approach of Using Feature-Based Machine Learning Models to Expand Coverage - M. Alghazal (Saudi Aramco) | | |
| 10:30 | Exploration Drilling in Mexico through Complex Salt with Seismic While Drilling Technology - N. Kelsall (Schlumberger) | 10:30 | Season Cycling Gas Storage In Stogit Fields. A Real-time Data Transmission System - A. Nagem (Society of Petroleum Engineers (SPE)) | | |
| 10:50 | Demonstrating Aspects of Generative Adversarial Networks Applied to Seismic Data Processing - A.J. Bugge (Lundin Energy Norway AS) | 10:50 | The Integrated Technology of Residual Reserves Localization and Profit Increase on Brownfields - I. Farkhutdinov (Tatneft Technological Development Centre) | | |
| 11:10 | What Can Quantum Computing Mean for Geoscience? - M. Dukalski (Aramco Overseas Company B.V.) | 11:10 | Machine Learning Application for Gas Lift Performance and Well Integrity - M. Yakout (Gulf Of Suez Petroleum Company (gupco)) | | |
| | | | Data-driven PHM Solution for Health Monitoring of Mud Motor Power Sections While Drilling - S. Ba (Schlumberger) | | |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 1: How the oil industry is addressing the energymix to meet the goals of the transition era - Room 1 | | | | | |
| 12:45 | Lunch | 12:45 | Lunch | | |
| Best of Petroleum Geoscience (Dedicated Session) | | Data Driven Methodologies II (SPE) | | Production & Management - EOR/IOR II | |
| 14:15 | Assessment of PM-CAES Using a Coupled Power-Plant & Geostorage Model with Simplified Reservoir Simulations - F. Gasanzade (Institute of Geosciences, University of Kiel) | 14:15 | Uncertainty Quantification by Monte Carlo Simulation of Lab-Derived Saturation Data from Sponge Cores - M. Alghazal (Saudi Aramco) | 14:15 | Immiscible Water Alternating CO2 Displacement Efficiency in Layered Water Wet Porous Media - D. Al-Bayati (Curtin University) |
| 14:35 | Flow Diagnostics for Naturally Fractured Reservoirs: A Case Study - V. Spooner (Heriot Watt University) | 14:35 | Indirect Estimation of Clastic Reservoir Rock Grain Size from Wireline Logs Using Supervised Nearest Neighbor Algorithm - F. Anifowose (Saudi Aramco) | 14:35 | Effect of direct current on interfacial tension of condensate droplet immersed in brine - P. Ikpeka (Teesside University) |
| 14:55 | The Effect of Facies and Thermal Property Heterogeneities on Aquifer Energy Storage in a Carbonate System - C. Wenzlaff | | | 14:55 | Investigation of Dynamic Swelling and Interfacial Tension of Crude Oil/Brine in the Presence of - M. Simjoo (Sahand University of Technology) |
| 15:15 | The Processes and Products of Salt Welding; Insights from Offshore Brazil and the Northern Gulf of Mexico - C. Jackson (Imperial College) | | | 15:15 | Interaction of Cationic Surfactants with Anionic Polymers for Improving Oil Production - L. Xu (Aramco Asia Beijing Research Center) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| | | IOR/EOR I (SPE) | | 15:55 | Experimental Measurement and Equation of State Modeling of CO2 and A Gas Condensate Binary Mixture - I. Seteyeobot (Heriot Watt University) |
| | | 15:55 | The Impact of Surface Roughness and Injection Rate on Acid-fracture Conductivity - C. Chen (Southwest Petroleum University) | 16:15 | Simulation of Surfactant Flooding in Carbonate Reservoir Using a High-Resolution Outcrop Model - J. Pola (Heriot-Watt University) |
| | | | | 16:35 | Effect of Brine Chemistry on Low Salinity Water: Interplay between Wettability Alteration and Emulsion Generation - M. Simjoo (Sahand University of Technology) |
| | | | | 16:55 | A Synergistic Binary Viscosity Reducer System for Improved Heavy Crude Oil Production - S. Chen (Aramco Asia) |

Technical Programme

Tuesday, 19 October | ePoster presentations

 This presentation is pre-recorded

| EPOSTER A | | EPOSTER B | | EPOSTER C | |
|---|--|--|---|--|---|
| ePoster: FWI Case Histories | | ePoster: Imaging Case Histories | | ePoster: Wavefield Modelling I | |
| 08:30 |  Earth model building using full-waveform inversion with short-offset seismic data from the Gulf of Thailand - K. Wangkawong (Pttep) | 08:30 |  3D Errors in 2D Seismic Images: Analysis and Prediction of Errors Due to a Thrust Fault - J. Harding (Repsol) | 08:30 |  A new implementation of CPML for the second-order wave equation - X. Fang (China University Of Petroleum, Beijing) |
| 08:50 |  Exploiting Visco-Acoustic Full-Waveform Inversion and Q-Imaging to Resolve Seismic Velocity Heterogeneity, Offshore Cameroon - M. Matta (Schlumberger) | 08:50 |  Least-squares Kirchhoff PSDM with a local based inversion approach and compensation for limitations in modeling. - N. Chemingui (PGS) | 08:50 |  A Perfectly Matched Layer Technique for the Lattice Spring Model - J. Tang (China University Of Petroleum (beijing)) |
| 09:10 |  4D OBN processing and imaging of the Agbami field. Part II: FWI high resolution model building - M. Vu (ION) | 09:10 |  Broadband Imaging for the Largest Exploration Survey in Asia - R. Chakraborty (Schlumberger) | 09:10 |  Study on Absorbing Boundary Conditions of Viscous Sponge Layers Based on Lattice Boltzmann Method - C. Jiang (China University Of Petroleum - Beijing) |
| 09:30 |  Reliability, efficiency, and robustness: enhanced template-matching full-waveform inversion using sparse ocean-bottom node data - W. Kang (Schlumberger/westerngeco) | 09:30 |  De-risking pre-salt exploration: A regional scale re-imaging case study from the Greater Cavendish area - K. Ramani (Schlumberger) | 09:30 |  3D Elastic Wavefield Reconstruction Method Based on Optimal Operator Boundary Storage Strategy - Q. Li (China University of Petroleum) |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| 10:10 |  GOMCRUST - The crustal-scale extension of the 2004 BP velocity model for long-offset OBN acquisition setting - A. Górszczyk (Université Grenoble Alpes) | 10:10 |  Fault Shadow Zone PSDM Imaging - Entrerrios, Llanos Basin, Colombia - D. Negut (Z-Terra North Inc.) | 10:10 |  Attenuating Spurious Reflections from Unmatched Nodes Using the Discontinuous Galerkin Method - P. Takapouy (University Of Tehran) |
| 10:30 |  Investigation on Optimal Walkaway VSP Survey for Reservoir Monitoring with FWI in Abu Dhabi - T. Mouri (Japan Oil, Gas And Metals National Corporation) | 10:30 |  Multi Azimuth Imaging of an Oil-bearing Faulted Sandstone Reservoir: A Nigeria deep offshore Case study - J. Chigbo (Ion Geophysical Corporation) | 10:30 |  Elastic Wavefield Decomposition Based on Eigenform Analysis in 3D Anisotropic Media - J. Zuo (China University Of Petroleum (beijing)) |
| 10:50 |  A practical approach to handle land data: full-waveform inversion case study - X. Li (BGP INTERNATIONAL INC) | 10:50 |  A case study of shallow marine survey for geohazard risk evaluation, offshore Iran - M. Shahnazi (Dana Energy) | | |
| 11:10 |  Recovering fault-karst structure in the Tarim Basin using full waveform inversion - Z. Wang (China University Of Petroleum (East China)) | 11:10 |  Research and Application of Viscoelastic Q Pre-stack Depth Migration Technology in Deep Thin Reservoir Imaging - B. Du (NW-Research Institute of Petroleum E&D PetroChina) | | |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 1: How the oil industry is addressing the energymix to meet the goals of the transition era - Room 1 | | | | | |
| 12:45 | Lunch | 12:45 | Lunch | 12:45 | Lunch |
| ePoster: Velocity Model Building | | ePoster: Migration Approaches | | ePoster: Wavefield Modelling II | |
| 14:15 |  Development of Seismic Velocity Combining Tomographic Inversion and Forward Modeling by Ray Tracing: Technique and Application - J. Papouliá (Hellenic Centre For Marine Research) | 14:15 |  A matrix-free reformulation of the multi-parameter descent and conjugate-gradient method for isotropic elastic iterative reverse-time migration - W. Mulder (Shell Global Solutions International BV) | 14:15 |  One-Way Wave Propagation and Migration in Ray Center Coordinate System of VTI Medium - B. Zhang (Tongji University) |
| 14:35 |  Anisotropic media tomography based on automatic horizons picking - X. Shuo (China university of petroleum (East China)) | 14:35 |  Dynamically Focused Beam Migration in Anisotropic Media - Q. Liu (China University Of Petroleum(east China)) | 14:35 |  Traveltime and Relative Geometrical Spreading Approximation in Elastic Orthorhombic Medium - S. Xu (Kyoto University) |
| 14:55 |  Elastic Seismic Inversion Using an Iterative Ensemble Kalman Filter - Y. Zheng (BP) | 14:55 |  Q least-squares reverse time migration with density disturbance based on the first-order viscoacoustic quasi-differential equations - Y. Wang (China University Of Petroleum (East China)) | 14:55 |  Reflection Raytracing Using Snell's Law in Multi-Stage Fast Marching Method - Y. Lu (Department Of Earth And Space Sciences, Southern University Of Science And Technology) |
| 15:15 |  Source independent velocity recovery using imaginary FWI - S. Qin (Michigan State University) | 15:15 |  Investigating the influence of the free-surface ghosts to depth image through the point spread function - B. Han (China University of Geosciences) | 15:15 |  Finite-Difference Frequency-Domain Modelling of Acoustic Wave in VTI Media through Plane Wave Interpolation - S. Izadian (Heriot-Watt University) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| 15:55 |  Joint Inversion of Magnetotelluric and Ambient Seismic Noise Data using Correspondence Maps - M. Aquino (CNRS UMR 7063 ITES) | 15:55 |  Elastic Gaussian Beam Migration in Tilted Transversely Isotropic (TTI) Media - X.X. Xu (China University of Petroleum (East China)) | 15:55 |  Converted wave triplications in transversely isotropic media with a tilted symmetry axis - A. Stovas (Norwegian University of Science & Technology) |
| 16:15 |  Temperature Dependence of Ultrasonic Velocities in Fluid-Saturated Rocks: Experiments and Modelling - H. Qi (Hohai University) | 16:15 |  Generalised Algorithm and Implementation of Topography Within Finite Difference Wave Solvers - E. Caunt (Imperial College) | 16:15 |  Working around the Corner Problem in Numerically Exact Non-Reflecting Boundary Conditions for the Wave Equation - W. Mulder (Shell Global Solutions International BV) |
| 16:35 |  Converted Wave Traveltime Approximation in Elastic Orthorhombic Media - S. Xu (Kyoto University) | | | 16:35 |  Numerical Solution of Acoustic Wave Equation in ω -k Domain - N. Amini (CoCoLink (Subsidiary of Seoul National University Techno Holdings)) |
| | | | | 16:55 |  Estimate optimal parameters of finite-difference scheme for wavefield modelling - X. Fang (China University Of Petroleum, Beijing) |
| | | | | |  Explicit simulation of seismic waves in fractured VTI media - A. Shevchenko (Moscow Institute of Physics and Technology) |



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Tuesday, 19 October | ePoster presentations

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| EPOSTER D | | EPOSTER E | | EPOSTER F | |
|---|---|---|---|---|---|
| ePoster: Seismic Interpretation - Theoretical Advances I | | ePoster: Seismic Processing - Noise Attenuation - New Developments | | ePoster: Borehole Seismic Methods | |
| 08:30 | On-Axis Triplications in Elastic Orthorhombic Media - S. Xu (Kyoto University) | 08:30 | Edge-Aware Image Conditioning with a Siamese Neural Network - M. Aharchaou (ExxonMobil) | 08:30 | Application of Walkaway-VSP Based on Joint Observation by DAS and Geophones in Northwest China - C. Zhidong (BGP) |
| 08:50 | Investigating the Effective Properties of Multiscale Fractured Media Using Non-Periodic Homogenization - A. Ibourichene (RING team - Géoresources - Université de Lorraine) | 08:50 | Inversion-Based Edge-Preserving Seismic Denoising with Structural Constraints - T. Wang (SINOPEC Petroleum Exploration and Production Research Institute) | 08:50 | P-Wave Anisotropy Estimation from 3D VSP Data Acquired with Geophones and DAS at Otway Site - S. Popik (Curtin University) |
| 09:10 | Pore structure based modeling of resistivity and inversion of saturation in fractured formation - T. Hou (China University Of Petroleum (Beijing)) | 09:10 | Microseismic Signal Recognition Based on a Single Channel PSR-ICA Method - H. Meng (Research Institute of Petroleum Exploration & Development-Northwest(NWGI), PetroChina) | 09:10 | PS Converted-Wave NMO Correction and Its Application to Improve PS Reflection Imaging Quality of VSP Data - M. Lou |
| 09:30 | Seismic expression of cracks: reconciling discrete fracture network modelling and effective medium approaches - A. Fuggi (University of Leeds) | 09:30 | A Random Noise Suppression Method of Seismic Data Based on the VMD-ICA Algorithm - H. Meng (Research Institute of Petroleum Exploration & Development-Northwest(NWGI), PetroChina) | 09:30 | While Drilling Checkshots and Prediction Ahead of the Bit Using a Drill Bit as a Source - A. Aldawood (Saudi Aramco) |
| | | | | | Application of beam migration to DAS-VSP seismic data - P. Duan (Bgp, Cnpc) |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| | | | | | ePoster: Seismic Processing - Attenuation |
| 10:10 | Application of Iterative Inversion Incorporated Prior Knowledge of Strike-slip Fault Zone in Tight Limestone Reservoir Prediction - X. Li (China University of Petroleum-Beijing) | 10:10 | Suppressing Seismic Record Linear Noise on the Common Offset Gathers Using Mathematical Morphology Filters - G. Shang (China University of Petroleum-Beijing) | 10:10 | A New Q Estimation Method Based on Logarithmic Spectral Simultaneous Inversion - K. Xu (Sinopec Petroleum E&P Research Institute) |
| 10:30 | Research and application of pre-stack fracture prediction based on the full azimuth common reflection angle gather - R. He (Research Institute Of Petroleum Exploration & Development-Northwest(NWGI), Petrochina) | 10:30 | Seismic Random Noise Attenuation via Unsupervised Sparse Machine Learning - Y. Gao (China University of Petroleum-Beijing) | 10:30 | Oriented Inverse Q Filtering Using Prestack Data - C. Li (China University of Petroleum, Beijing) |
| 10:50 | Impact of Shale Anisotropy on Passive Source Microseismic Wavefield - R. Wu (Chinese Academy Of Science) | 10:50 | Noise Suppression in Low SNR Area-A Case Study of the Piedmont Zone in Western China - X. Sha (PetroChina Research Institute of Expl. & Developm.) | 10:50 | Research of Shale Oil Reservoirs Geophysical Characteristics Based on P and S Wave VSP Data - C. Zhidong (BGP) |
| | | 11:10 | An improve Convolutional Auto-Encode Denoising Method - J. Zhang (China University of Petroleum-Beijing) | 11:10 | Prestack data attenuation compensation based on inversion - W. Cheng (China University Of Petroleum (beijing)) |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 1: How the oil industry is addressing the energymix to meet the goals of the transition era - Room 1 | | | | | |
| 12:45 Lunch | | 12:45 Lunch | | 12:45 Lunch | |
| ePoster: Rock Physics I | | ePoster: Seismic Processing - Noise Attenuation - New Developments and Case Studies "Mix" | | ePoster: Seismic Acquisition & Processing - Micro and Passive Seismic | |
| 14:15 | Rock Physics Model for Unconventional Reservoirs with Vertical Transverse Isotropy - U. Durmus (Colorado School of Mines) | 14:15 | Multichannel abnormal amplitude preserving attenuation based on data random reconstruction and its application - H. Li (RIPED-NWGI, Petrochina) | 14:15 | Polarization analysis and 3D patterns for the six basic seismic moment tensors - H. Li (King Fahd University of Petroleum & Minerals) |
| 14:35 | Rock Physics Modelling of Gas Dissolved in Water Sandstone, Nakajo Field, Japan - T. Fukano (JX Nippon Oil & Gas Exploration Corporation) | 14:35 | Primal-Dual Optimization Strategy with Total Variation Regularization for Prestack Seismic Image Deblurring - B. Jiang (Tsinghua University) | 14:35 | A Maximum Projection Based Method for Estimating Relative Backazimuth between Microseismic Events - X. Meng (Chengdu University of Technology) |
| 14:55 | Petrophysical Properties Estimation of Deep Dolomite Reservoir - J. Gui (PetroChina Research Institute of Expl. & Developm.) | 14:55 | Mud-Roll Removal in Shallow Water Marine Data Using the Curvelet Transform - E. Verschuur (Delft University of Technology) | 14:55 | Compressive Sensing - Machine Learning combined for joint location and moment tensor estimation: a performance analysis - I. Vera Rodriguez (NORSAR) |
| 15:15 | A Quantitative Estimation Method of Cement Clay in Clayey Sandstone and its Rock Physics Application - X. Han (China University of Petroleum) | 15:15 | Early stage noise removal using a convolutional autoencoder - J. Walda (University of Hamburg) | 15:15 | Geometry-independent realistic noise models for synthetic data generation - M. Ravasi (King Abdullah University of Science and Technology) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| 15:55 | Creation of Lithology and Gas-Bearing Sensitive Elastic Factor Based on Xu-Payne Optimization Modeling - Y. Li (Sinopec) | 15:55 | Receiver Deghosting with Blended Data Using Sparse Inversion - J. Cao (Delft University of Technology) | 15:55 | Fast-Linearized Methods for Hypocentre Location, Magnitude Estimation and Site Amplification Effects of Fluid-Induced Seismic Events - G. Rodríguez-Pradilla (University of Bristol) |
| 16:15 | Investigation of the Correlations between Anisotropic Properties and Kerogen Content in Organic-Rich Shale - J. Xie (Chengdu University of Technology) | 16:15 | Adaptive Non-Local Means Filter and Its Application for Nonstationary Seismic Data - F. Wang (Tongji University) | 16:15 | An optimized workflow for source localization and joint velocity inversion using wavefront attributes - P. Yang (University Of Hamburg) |
| 16:35 | Seismic Interpretation Based on Improved Tight Sandstone Reservoir Rock Physics Model - Y. Zhou (China University of Petroleum (East China)) | 16:35 | Seismic Noise Attenuation Based on Higher-Order Directional Total Variation - L. Zhou (Hunan University of Science and Technology) | 16:35 | Towards 3D transdimensional ambient-noise surface wave tomography of the Reykjanes Peninsula, SW Iceland - A. Rahimi Dalkhani (Delft University Of Technology) |
| 16:55 | Simulation of the effect of rock diagenetic process on seepage property - H. Zheng (China University Of Petroleum) | 16:55 | A random noise reduction method in f-x domain - R. He (Research Institute Of Petroleum Exploration & Development-Northwest(NWGI), Petrochina) | 16:55 | Comparison of Surface and Shallow Seismological Networks Based on Experimental Data - P. Dergach (Trofimuk Institute of Petroleum Geology & Geophysics SB RAS) |

Technical Programme

Tuesday, 19 October | ePoster presentations

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| EPOSTER G | | EPOSTER H | | EPOSTER I | |
|---|---|--|--|--|--|
| ePoster: Faults | | ePoster: Enhanced Reservoir Simulation | | ePoster: Integrated Reservoir Characterization | |
| 08:30 |  Cantarell Giant Oilfield Fault-Thrust Kinematic Evolution and Synchronous Thermo-Fluid Dynamics - G. Perez-Drago (Beicip-franlab) | 08:30 | Unlocking true reservoir potential: The impact of surface constraints on future production predictions - T. Ravestein (SJUR) | 08:30 | Prediction of Turbidite Reservoir (Achimov Reservoirs) Based on Complexity Geological and Seismic Data to Make FID - A. Sidubaev (Gazpromneft NTC, Ltd) |
| 08:50 |  Effects of micro-fracture and micro-coal line on tight gas accumulation, Triassic Xujiahe Formation, Sichuan Basin, China - W. Zhao (China University of Petroleum (Beijing)) | 08:50 |  Homogenization of Hydro-Mechanical Coupling in Shale Matrix - X. Yan (China University of Petroleum (East China)) | 08:50 | Sandstone Payzone Determination by Using Electrofacies Analyses in Two Clastic Reservoirs of Iranian Oil Fields - V. Mehdipour (Dana Energy) |
| 09:10 | Development and application of a new method for addressing fault compartmentalization uncertainty using probabilistic linear regression - D. Hemingway (PDS Group) | 09:10 |  Geostatistical Interpolation Constrained by Lithofacies - B. Yu (CHINA UNIVERSITY OF PETROLEUM(BEIJING)) | 09:10 |  Analysis of Thin Sand Recognition Using Supervised Multiattribute Classification Based on ANNs - S. Zhang (Saudi Aramco) |
| 09:30 |  The Sealing Capacity of Multi-Stage Extensional Abutting Faults in the Bohai Bay Basin, China - J. Ren (Bohai Oilfield Research Institute, CNOOC) | 09:30 | A New Generalized Auto-Tune Procedure for Modeling Asphaltene Precipitation by Equation of State - A. Daryasafar (Petroleum University Of Technology) | 09:30 |  Reservoir characterization using petrophysical analysis of the Volve Field, Norway - O. Oyetunji (University of Houston) |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| 10:10 | Displacement Transfer along Oblique Faults: A Case Study of Chengbei Fault, Bohai Area, Eastern China - S. Panpan (Cnoc (china National Offshore Oil Corporation) Ltd Tianjin Branch, Tianjin, P.r.china) | 10:10 | Pore-Scale Direct Numerical Simulation of Simultaneous Marangoni-Driven Convection and Mass Diffusion in a Chemical Flooding Process - J. Abbasi (Shiraz University) | 10:10 | Dynamis and Static Electrofacies Analysis versus HFU in Ilam Reservoir; A Carbonate Oil Field of Iran - H. Rastkerdar (Dana Energy) |
| | | 10:30 |  Impact of oil type and average reservoir pressure on dynamic heterogeneity during waterflooding - Z. Bahmani (Shiraz University) | 10:30 | High Resolution Modelling for EOR Screening in Nigerian Reservoirs - M.M. Mbusube (Heriot-watt University) |
| | | 10:50 | Experimental Investigation on Low Salinity Effect Using Dynamic Interfacial Properties During Tertiary Water Flooding - H. Farhadi (Sharif University Of Technology) | | |
| | | 11:10 |  Water Saturation Prediction in the Reservoir Zone of a Gas Field using SVR Method - S.A. Afzali Fatatouei (Tehran University) | | |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 1: How the oil industry is addressing the energymix to meet the goals of the transition era - Room 1 | | | | | |
| 12:45 | Lunch | 12:45 | Lunch | 12:45 | Lunch |
| ePoster: Wireline and LWD logging - Analysis and Interpretation | | ePoster: Characterization and Monitoring of Subsurface CO2 Storage | | ePoster: Geophysical Characterization for Mineral Exploration and Mining | |
| 14:15 |  A novel method of fluid identification on low contrast reservoirs - S. Wang (China University of Petroleum) | 14:15 |  Characterizing CO2 Plumes from High-Resolution Seismic Tomography in Shenhua CCS Demonstration Project - Y. Zheng (Institute of Geology and Geophysics (CAS)) | 14:15 |  Extraction of Surface-Wave Dispersion Curves from Ambient Noise Data in a Mineral Exploration Site in Finland - C. Colombero (Politecnico Di Torino) |
| 14:35 |  A new determining porosity method based on four detectors and D-T neutron source - F. Junting (China University Of Petroleum) | 14:35 |  Cross-Hole Seismic as a Monitoring Tool: CO2CRC Otway SRD3.3 Shallow Release Project Case Study - K. Tertyshnikov (Curtin University of Technology) | 14:35 | Separation of LS-Epithermal Gold Veins Deposit Alterations by Geophysics in Chucotka Region - E. Ermolin (GM-Service Ltd) |
| 14:55 |  An Inversion Method to Determine Azimuthal Density for Cement Evaluation in Horizontal Well - H.C. Song (China University Of Petroleum) | 14:55 | An Assessment of the CO2 Fate at Smeaheia, A Potential Large-Scale Storage Site in Norway - P. Orsini (OpenGoSim Ltd) | 14:55 |  Reducing the Cost of Microseismic Monitoring for Ensuring Safety in Mining - L. Eponeshnikova (Novosibirsk State University) |
| 15:15 |  Fluid indicators based on velocity dispersion and attenuation from acoustic waveform in the carbonate reservoirs - X. Li (China Petroleum Logging Co. Ltd.) | 15:15 | Dispersion Coefficient Inferred from Convection Dynamics of CO2 in Brine Saturated Porous Media - S. Mahmoodpour (Institute of petroleum engineering- Tehran university) | 15:15 |  Marine Transient electromagnetic Exploration of Seafloor Massive Sulfide Deposits on Southwest Indian Ridge - Z. Su (China University Of Petroleum (beijing)) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| 15:55 | Multi Boundary Mapping Delivers Productive Horizontal Well in Heterogeneous Clastic Reservoir, Study from Greater Burgan Field - D. Belal (Kuwait Oil Company) | 15:55 | From CO2 Transportation to Geological Storage: The Whole Picture of a CCS Process with Chemical Thermodynamics - E. Joonaki (Heriot-watt University) | 15:55 |  Imaging Dispersion of MASW Data with Post-Coding Mini-Sosie - Z. Yang (Chang'an University) |
| 16:15 | A New Algorithm for Electromagnetic Waves in Planar-Stratified Media with Generalized Anisotropy - L. Wang (China University Of Petroleum) | 16:15 |  Quantitative Evaluation of Gas Saturation by Neutron Cross-Section from Pulsed Neutron Logging in CO2 Injection Formation - J. Fan (China University of Petroleum(East China)) | 16:15 |  Shallow Geohazard Interpretation using High-Resolution Seismic Attributes and Artificial Intelligence - C. Han (GeoTeric) |
| 16:35 | Advanced Ultrasonic technology measuring annulus thickness and detecting formation collapse on casing - F. Ahmad (Kuwait Oil Company) | 16:35 |  Three-Axis Borehole Gravity Feasibility Method and Its Application to CO2 Storage Monitoring - A. Seshia (University Of Cambridge) | 16:35 | Machine Learning integrated to pipeline monitoring with Distributed Acoustic Sensing - C. Jestin (FEBUS OPTICS) |
| 16:55 |  Triaxial Induction Tools Responses in Layered Arbitrarily Anisotropic Medium - X. Hu (China University of Petroleum -Beijing at KARAMAY) | | | 16:55 |  Comparative study of stochastic Nature Inspired Optimization Algorithms to estimate Shear wave velocity using Ground Rolls. - P. Kumar (Indian Institute Of Technology Kanpur) |
| | Bayesian-type TI anisotropy characterization using depth-dependent prior information - J. Jocker (Schlumberger) | | | | |



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Tuesday, 19 October | ePoster presentations

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| EPOSTER J | | EPOSTER K | |
|---|---|---|--|
| ePoster: HSE & Sustainability - Reducing Safety Exposure and Environmental Impact of Geophysical Operations | | ePoster: Poster Session I (SPE) | |
| 08:30 | Derisking Marine Seismic Survey Feasibility in Shallow Waters - E. L'arvor (Total E&P) | 08:30 | Investigation on the Effect of Mud Additives on the Gelation Performance - M. Shamlooh (Qatar University) |
| 08:50 | Improvements in Geologic Modeling Workflows Based on Six Years of Incremental Models at Farnsworth CCUS/EOR Site - R. Balch (New Mexico Tech) | 08:50 | Adapted Methodology for Evaluating EOR Reserves and Resources, Incorporated - L. Perdomo (YPF) |
| 09:10 | Optimization of Safe Distance in Pursuing Seismic Data Acquisition through Oil Fields and Populated Areas - I. Hakam (Saudi Arabian Chevron) | 09:10 | Synergistic Effects of Engineered Water Nanoparticle on Oil/Brine/Rock Interactions in Carbonates - M.R. Hashmet (Nazarbayev University) |
| 09:30 | Mitigation of Safety Risks in Pursuing Mega 3D Seismic Survey in Former Battle Field Area - A.M. Alkandari (Kuwait Gulf Oil Company) | 09:30 | An In-Depth Review of the Recovery Mechanisms for the Cyclic Gas Injection Process - H. Martin Rodriguez (Repsol) |
| 09:50 | Coffee break | 09:50 | Coffee break |
| 10:10 | COVID-19 infection prevention measures in 2-D land seismic survey, Niigata, JAPAN - S. Suzuki (INPEX CORPORATION) | 10:10 | The Potential Impact of Surfactant and Polymer Production on Separated Water Quality - J. Almorihil (Saudi Aramco) |
| 10:30 | A standardized benthic mapping approach for offshore site characterization - C. Jones (Integral Consulting) | 10:30 | Numerical Investigation of Wettability Effects on Immiscible Two-phase Flow in Naturally Fractured Reservoirs - M.H. Sedaghat (University of Melbourne) |
| 10:50 | Etzel Goes Hydrogen? ... Reassessing the Structural Integrity of an Aging Salt Cavern Energy Storage - B. Otto (Wintershall Dea) | | |
| 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 1: How the oil industry is addressing the energymix to meet the goals of the transition era - Room 1 | | | |
| 12:45 | Lunch | 12:45 | Lunch |
| ePoster: HSE & Sustainability - Sustainable Development | | ePoster: Poster Session II (SPE) | |
| 14:15 | Fast Machine Learning-Based Oil Slick Detection on Satellite Imaging - M. Araya-Polo (Total EP Research & Technology USA, LLC.) | 14:15 | Acidizing Workflow for Optimized Well Performance in Zhdanov and Lam Oil Fields Offshore Caspian Sea - R. Kalabayev (Schlumberger) |
| 14:35 | Magnetometry and electromagnetic screening of dumps - fast solution for geoenvironmental information acquisition - J. Burlakovs (University of Latvia) | 14:35 | Offset Data Analysis and Seam Less Execution through Real Time Monitoring Results in Step Change - A. Nagem (Society of Petroleum Engineers (SPE)) |
| 14:55 | Sustainable Management of Ghana's Sanitation Using the REIM Model - V.B. Danquah (University Of Aberdeen) | | |
| 15:15 | Stabilization of Synthetic-based Mud by Renewable Resources - J.M. B M Ibrahim (Petronas) | | |
| 15:35 | Coffee break | | |
| ePoster: Data and Information Management | | | |
| 15:55 | An Integrated Machine Learning Platform for Multi-Scale and Multi-Domain Applications in Geosciences - P. Dell'aversana (Eni SpA) | | |
| 16:15 | Performance Evaluation of Machine Learning Algorithms in Predicting Dew Point Pressure of Gas Condensate Reservoirs - P. Ikpeka (Teesside University) | | |
| 16:35 | Tsunami Predefined Charts for Rapid Energy and Amplitude Estimation and Its Relationships with Initial Water Displacement - A. Ala Amjadi (IIIES (Int. Inst. of Earthquake Eng. & Seismology)) | | |
| 16:55 | Digital Sedimentology – a new tool for increasing the value of the petrographic study - B. Belozero (Gazpromneft NTC) | | |
| | Exploration cost optimization through value of information and digitalization of geological features. - I. Paveleva (LLC Gazpromneft STC) | | |

Technical Programme

Wednesday, 20 October | Oral presentations

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| ROOM 1 | ROOM 2 | ROOM 3 |
|---|--|---|
| Digitalization & AI: Seismic Data Processing II | Elastic FWI | Velocity Model Building: Tomography |
| 08:30  Physics-Constrained Deep Learning for Solving the Eikonal Equation - S. Grubas (University of Alberta) | 08:30  Ultra-resolution near surface FWI within a transmission surface-consistent scheme - D. Colombo (Saudi Aramco) | 08:30  Near-surface multi-parameter estimation for VTI media by first-arrival stereotomography - H. Sun (Tongji University) |
| 08:50 The eikonal solution for attenuating VTI media using physics-informed neural networks - T. Mohammad Hasyim (King Abdullah University of Science and Technology) | 08:50  Elastic Anisotropic Full Waveform Inversion Using Probabilistic Petrophysical Constraints - O.C. Aquino De Aragão (Center for Wave Phenomena, Colorado School of Mines) | 08:50  Near-surface Bayesian first-arrival tomography with uncertainty using natural neighbor interpolation - A. Egorov (Aramco Research Center – Moscow, Aramco Innovations LLC) |
| 09:10  Is it time to swish? Comparing activation functions in solving the Helmholtz equation using PINNs - U.B. Waheed (King Fahd University of Petroleum and Minerals) | 09:10  A practical implementation of converted-wave reflection full-waveform inversion - N. Masmoudi (CGG) | 09:10 Joint Inversion of Surface Wave Tomography and Body Wave Tomography Applied to 2D Media - M. Karimpour (Politecnico Di Torino) |
| 09:30  Physics-guided deep learning using Fourier neural operators for solving the acoustic VTI wave equation - T. Konuk (Colorado School of Mines) | 09:30  Elastic Full Waveform Inversion with Coiled Distributed Acoustic Sensing Fibres - M. Eaid (University Of Calgary) | 09:30 Preconditioned transmission + reflection joint traveltime tomography with adjoint-state method for subsurface velocity model building - J. Zhang (Tongji University) |
| 09:50 Coffee break | 09:50 Coffee break | 09:50 Coffee break |
| 10:10  Deep-LSRTM: least-squares reverse time migration via learned projection operators - K. Torres Bautista (University of Alberta) | 10:10  Target-oriented high-resolution elastic full waveform inversion using redatumed multi-component data - Y. Li (King Abdullah University Of Science And Technology) | 10:10 Travel time tomography in elastic wave imaging domain based on ADCIGs - W. Zhonghua (China University Of Petroleum (East of China)) |
| 10:30 Seismic Registration Using Convolutional Neural Networks - C. Bagaini (Schlumberger) | 10:30  Land Full Waveform Inversion Application from Topography - D. Vigh (Schlumberger) | 10:30  Resolving small scale lateral velocity anomalies without FWI or stochastic approaches - M. Reinier (CGG) |
| 10:50  Moving toward Direct DNN-Based Enhancement of 3D Pre-Stack Seismic Data - K. Gady/Ishin (Institute of Petroleum Geology & Geophysics SB RAS) | 10:50 On the Robustness of Sparsity-Promoting Regularized Wavefield Inversion with Phase Retrieval Against Sparse Long-Offset Acquisitions - H. Aghamiry (Université Côte d'Azur, CNRS, Observatoire de la Côte d'Azur, IRD, Géoazur) | 10:50  Method for correcting statics errors using depth misties - P. Docherty |
| | 11:10  Chevron Optimization Framework for Imaging and Inversion (COFIL) – open-source Julia language framework for seismic inversion - J. Washbourne (Chevron) | 11:10  Efficient monochromatic traveltimes sensitivity kernel calculation using random-boundary condition - B. Feng (Tongji University) |
| | |  Accelerating seismic stacking methods with GPUs in the computational cloud - G. Ciotto Pinton (University Of Campinas) |
| 11:30 Coffee break | 11:30 Coffee break | 11:30 Coffee break |
| 11:45 Forum Session 2: Role of geoscience and engineering in meeting decarbonization goals - Room 1 | | |
| 12:45 Lunch | 12:45 Lunch | 12:45 Lunch |
| Digitalization & AI: Quantitative Interpretation and Geology | FWI Case Histories | Velocity Model Building I |
| 14:15  Semi-supervised seismic data and well logs integration for reservoir lateral porosity prediction - W. Sang (China University Of Petroleum(Beijing)) | 14:15  Exploiting the Full Wavefield to Overcome Limitations of Ray Based Tomography in the Central North Sea - F. Hall (CGG) | 14:15 Neural network for misfit prediction in 2D elastic global FWI - S. Pierini (University Of Pisa) |
| 14:35 Optimizing digital image analysis of thin sections for reliable pore network characterization - V. Chandra (King Abdullah University Of Science And Technology) | 14:35  FWI velocity and imaging: A case study in the Johan Castberg area - N. Salaun (CGG) | 14:35  Increase resolution of the seismic velocity model through seismic data - Y. Li (Tsinghua University) |
| 14:55 3D Seismic Based Reservoir Property Prediction Using Deep Convolutional Neural Networks - E. Zabih Naeini (Earth Science Analytics) | 14:55  Gabon Offshore - New Technology Enhancing Imaging of Complex Subsurface in Gabon - P. Gabrielli (CGG) | 14:55  Automatic unroofing for salt base using U-net in full-waveform inversion framework - A. Alali (KAUST) |
| 15:15 Application of machine learning algorithms for fluid type prediction based on seismic data - E. Karaseva (Imperial College) | 15:15  Improving Sub-Messinian Images in the Nile Delta Using FWI and Least-Squares Q Migration - C. Chen (Cgg) | 15:15  How AI derived logs can improve the PSDM model building, an on-shore example - M. Rauch (TGS) |
| 15:35 Coffee break | 15:35 Coffee break | 15:35 Coffee break |
| 15:55  A Hybrid Image Processing Approach to Enhance Signal to Noise Ratio of Carbonate Micro CT-Images - S. Sadeghnejad (Tarbiat Modares University) | 15:55  Uncovering the Potential Reservoir Beyond Basalt, Kutch Offshore: A Case Study of Sub-Basalt Imaging - S. Sengupta (Schlumberger) | 15:55  Practical deep learning inversion using neural architecture search and a flexible training dataset generator - T. Shibayama (Preferred Networks Inc.) |
| 16:15  Analysis of Geological Susceptibility to Induced Seismicity in the Montney Formation Using Supervised Machine Learning - P. Wozniakowska (University of Calgary) | 16:15  Unraveling the Complex Subsurface with a High-Resolution Earth Model in the Taranaki Basin, New Zealand - Y. Gong (Schlumberger) | 16:15 Mitigating the Near-Surface Effect in Velocity and Reflectivity Estimation with Multi-Scale Low-Rank Approximated Image Updates - A.M. Alfaraj (Delft University Of Technology - TU Delft) |
| 16:35  Leveraging semantic search and advanced analytics to map studies on overpressure mechanisms across the globe - P. Tempone (ENI E&P) | 16:35  Revisiting Mariner: Value of Multicomponent and Time-measurement Data for Model Building - S. Roy (Schlumberger) | 16:35  Wave-equation first-arrival tomography for 3-D near-surface velocity inversion - B. Feng (Tongji University) |
| 16:55 Monitoring Geologic Change in an Evolving World - C. Dacre (Maxar Technologies) | 16:55  Quasi-Elastic Full-Waveform Velocity Inversion with Density Constraints - V. Valler (ION) | 16:55 3D transdimensional ambient noise surface wave tomography of the Reykjanes Peninsula – a feasibility study - A. Rahimi Dalkhani (Delft University Of Technology) |
|  The Importance of Blending Different Data Types to Train Machine Learning Classifiers for Sedimentary Structure Detection - A. Nathanail (Heriot-Watt University) |  Resolving Complex Carbonate Imaging Challenges with FWI on Short-Offset Vintage Streamer Data - P. Deng (CGG Services (Singapore) Pte.Ltd.) |  Complex Near-surface Velocity Modeling via U-net - G. Niu (China University Of Petroleum(Beijing)) |



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Wednesday, 20 October | Oral presentations

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| ROOM 4 | ROOM 5 | ROOM 6 |
|---|--|--|
| Imaging Case Histories I | Energy Recovery from Fractured Reservoirs: Computational Challenges, Experimental Achievements and Field Applications (Dedicated Session) | Seismic Interpretation - Statistical Methods |
| 08:30 High Resolution Tomography in MSGBC Basin - Northwest Africa: A Case Study - D. Tiwari (TGS) | 08:30 Flow Diagnostics for Fractured Reservoirs with Geomechanics - V. Spooner (Heriot Watt University) | 08:30 Bayesian nonlinear rock-physics inversion for carbonate reservoirs with complex pore structure based on elastic impedance - H. Pan (Yangtze University) |
| 08:50 Multi-Azimuth Acquisition and High-Resolution Model Building and Imaging - A Case Study from Offshore Morocco - S. Chen (Schlumberger) | 08:50 It is Rough to be a Fracture – But How Rough? - K. Bisdom (Shell Global Solutions International BV) | 08:50 Building low frequency model with Deep Learning for seismic inversion in complex geology without structural model - C.S. Lee (CGG Services (NL) B.V.) |
| 09:10 Match-Filter Q Tomography - A Case Study from the Black Sea - M. Matta (Schlumberger) | 09:10 Geologically Relevant Framework for Adaptive Fractured Reservoir Modeling - D. Ris (TU Delft) | 09:10 Spatially Correlated Reflectivity Reconstruction via a Two-Step Scheme - H. Li (CHINA UNIVERSITY OF PETROLEUM (BEIJING)) |
| 09:30 Overcoming Shallow Water Imaging Challenges in Australia's North West Shelf - X. Li (CGG) | 09:30 Study on Differentiated Production Control Conditions for Micro-Fractured Reservoirs Development - R. Yang (Cnoc Research Institute Co. Ltd.) | 09:30 Robust seismic inversion workflow using temporal convolutional networks: a case study on noisy field data - H. Alfayez (Saudi Aramco, EXPEC Advanced Research Center) |
| 09:50 Coffee break | 09:50 Coffee break | 09:50 Coffee break |
| 10:10 Reducing Structural Uncertainty with a Modern Reprocessing Sequence: A Case Study Onshore Colombia - E.J. Wiarda (Ecopetrol S.A.) | 10:10 An Experimental Study of the Effect of Gravity on Foam in Fractures - K. Li (Technology University of Delft) | 10:10 Comparing Bayesian and Neural Network Supported Lithotype Prediction from Seismic Data - S. Klarner (SKGeo LLC) |
| 10:30 Revealing Complex Sub-Basalt Structures Offshore India through Advanced Seismic Processing - X. Li (CGG) | | 10:30 Stochastic Inversion with Joint Optimization of Discrete and Continuous Petrophysical Properties - L. Azevedo (Instituto Superior Tecnico) |
| 10:50 Thrust Fault and Sub-Thrust Imaging in the Taranaki Basin with Least-Squares Tilted Orthorhombic Q-RTM - Z. Gong (CGG) | | 10:50 Low-Frequency Impedance Inversion by Using Interpretable Gated Recurrent Encoder-Decoder Networks - X. Jiao (China University Of Petroleum(Beijing)) |
| 11:10 Multi-Azimuth Approach of Depth Imaging for Marine Towed Streamer Data - O. Litvyakova (PetroTrace Ltd.) | | 11:10 Machine learning based deep carbonate reservoir characterization with physical constraints - Y. Chen (State Key Laboratory of Marine Geology, Tongji University) |
| 11:30 Coffee break | 11:30 Coffee break | 11:30 Coffee break |
| 11:45 Forum Session 2: Role of geoscience and engineering in meeting decarbonization goals - Room 1 | | |
| 12:45 Lunch | 12:45 Lunch | 12:45 Lunch |
| Multiple Imaging | Energy Transitions Endeavor - Successful Projects, Plans, and Creative Ideas to Move Forward (Dedicated Session) | Seismic Interpretation - Enhanced Methods |
| 14:15 Plane-Wave Marchenko Imaging Method: Field Data Application - J. Van Ijsseldijk (Delft University of Technology) | 14:15 Cloud-Based Solutions for Collaborative Modeling of Geothermal Projects - G. Sosio (Schlumberger) | 14:15 Multichannel Reflectivity Inversion Using an Adaptive Lateral Amplitude Perturbation Constraint - X. Du (CNOOC Research Institute Ltd) |
| 14:35 Correcting for Imperfectly Sampled Data in the Iterative Marchenko Scheme - J. Van Ijsseldijk (Delft University of Technology) | 14:35 Permanent Carbon Sequestration Potential in Offshore Basalt Sequences on the NW European Continental Margins - S. Planke (Volcanic Basin Petroleum Research AS) | 14:35 Improved Approach for Seismic-driven Water Saturation Trend Prediction- Field B Case Study in Malay Basin - C.L. Lew (Group Research Technology PETRONAS) |
| 14:55 Least-squares multiple imaging constrained jointly by OBN and towed-streamer data - G. Poole (CGG) | 14:55 Maturing Geothermal Energy for Saudi Arabia - V. Vahrenkamp (Kaust) | 14:55 Joint PP-PS Inversion with registration optimisation to improve geological knowledge of a deep-water field West Africa - D. Lopez (CGG) |
| | 15:15 OGCI – Practical Actions from the Oil and Gas Industry to Mitigate Climate Change - P. Mezzano (Oil & Gas Climate Initiative) | 15:15 Improved Seismic Fluid Indicator Prediction Using Fluid Bulk Modulus Inversion - M. Jaya (Petroliam Nasional Berhad (PETRONAS)) |
| 15:35 Coffee break | 15:35 Coffee break | 15:35 Coffee break |
| Interferometry | | |
| 15:55 Ambient Noise Reverse Time Migration Based on Velocity Flood for Fault Imaging - H. Li (University Of Science And Technology Of China) | 15:55 Rocksalt Meets Energy Transition ... Salt Cavern Specific Subsurface Risks, Required G&G Skills and Staff Responsibilities - B. Otto (Wintershall Dea) | 15:55 Initial Wave Impedance Modeling Method Based on Plane-Wave Destruction - H. Li (RIPED-NWGI, Petrochina) |
| 16:15 Can we retrieve ultra-low frequency surface waves from blended continuous recordings? - D. Le Meur (CGG) | 16:15 AM20-Lab: Ultra High-Density Simultaneous Sourcing Test for Near-Surface Characterization and Deep-Sea Mineral Exploration - A.C. Ramirez (TGS) | 16:15 Automation of seismic inversion and reservoir characterization - R. Bachrach (Sib) |
| 16:35 On the benefits of auxiliary transmission data for Marchenko-based Green's function retrieval - J. Van Der Neut (Delft University of Technology) | | 16:35 A Joint Inversion-Segmentation approach to Assisted Seismic Interpretation - M. Ravasi (King Abdullah University of Science and Technology) |
| 16:55 Virtual checkshot reconstruction from seismic-while-drilling data - N. Alsaad (Saudi Aramco) | | 16:55 A new workflow to enhance intercept and gradient data quality - H. Pham Huu (BP) |
| Employing Internal Multiples in Time-Lapse Seismic Monitoring, Using the Marchenko Method - J. Van Ijsseldijk (Delft University of Technology) | | Joint PP-PS-SS Inversion in Native Time Domain Optimizing Registration through Travel Times Estimation - B. Roure (CGG) |

Technical Programme

Wednesday, 20 October | Oral presentations

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| ROOM 7 | | ROOM 8 | | ROOM 9 | |
|--|--|---|--|--|--|
| Multi-Component | | Seismic Processing - Noise Attenuation - Novel Approaches | | Seismic Interpretation - Theoretical Advances II | |
| 08:30 | Multicomponent 3D-3C Data Acquisition and Processing in the Bandurria Norte Concession, Neuquén Basin, Argentina - D. Curia (Wintershall Energia S.A.) | 08:30 | Multidimensional Factorial Kriging for Prestack Filtering - T. Demongin (Estimages) | 08:30 | Azimuthal Seismic Difference Inversion for Tilted Fracture Weaknesses - H. Chen (Tongji University, School of Ocean and Earth Science) |
| 08:50 | Bringing new insights to Central North Sea with OBN and FWI imaging - R. Refaat (CGG) | 08:50 | Surface Wave Attenuation Using Elastic Multi-Parameter Full Waveform Inversion - L. Ren (The University Of Texas At Dallas) | 08:50 | Derivation and Analysis of the Amplitude versus Incident Angle and Frequency in Fluid-bearing fractured Medium - Y. Yang (China University of Petroleum (East China)) |
| 09:10 | Realising full value from OBS data through continuous improvements in processing at the Culzean field, UKCS. - A. Merry (Maersk Oil North Sea UK Ltd) | 09:10 | Deep reinforcement and machine learning for seismic data processing and automated QC - J. Brittan (ION) | 09:10 | A highly accurate travelttime approximation for large-offset reflections over layered VTI models - M.M. Abedi (BCAM) |
| 09:30 | Understanding the importance of receiver density on PP and PS data at Clair - D. Davies (BP Exploration Operating Co. Ltd.) | 09:30 | Use of Elastic Forward Modeling to Remove Complex Coherent Noises - J. Tang (Westerngeco) | 09:30 | First Order Perturbation Approximation of Azimuth Converted Wave Reflection Coefficient of HTI Media - H. Liu (China University Of Petroleum(East China)) |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| 10:10 | Modelling the Effect of Fracture Density and Saturation on S-Wave Radiation from Vertical Sources - J. Gaiser (GGC, Del Mar, California, USA) | 10:10 | Reducing land seismic scattering noise through surface effects deconvolution - C. Stork (Land Seismic Noise Specialists) | 10:10 | Pure P- and S-Wave Equations in Anisotropic Media - A. Stavos (Norwegian University of Science & Technology) |
| 10:30 | A Calculation Method of PS-Wave Static Correction by Combining First Arrival Wave and Surface Wave - H. Zhang (Bgp, Cnpc) | 10:30 | A model for land seismic surface scattering noise has implications for acquisition and processing - C. Stork (Land Seismic Noise Specialists) | 10:30 | A case study of anisotropic AVO inversion and Quantitative Seismic Interpretation for deep shale gas reservoir - J.W. Cheng (China University of Petroleum-Beijing) |
| 10:50 | Anisotropic joint Scholte- and Love-wave inversion - E. Gofer (Schlumberger) | 10:50 | Simultaneous up-down separation and Vz denoise using joint sparsity recovery - A. Kumar (DownUnder GeoSolutions Pty Ltd) | 10:50 | Seismic dispersion and attenuation in partially-saturated layered and fractured rocks - D. Xu (China University Of Petroleum(east China)) |
| 11:10 | P- and S-Waves Separation in Elastic Wavefield without Separation Artifacts - X. Zhou (Chengdu University Of Technology) | 11:10 | Data-driven method for training data selection for deep learning - C. Lacombe (CGG) | 11:10 | Second-Order Perturbation Approximation of HTI Medium based on Azimuthal Observation - J. Shan (China University of Petroleum(east China)) |
| | Multi-component Seismic Data Reconstruction based on Vector POCS Method via Complexified Quaternion Fourier Transform - F. Li (China University Of Geosciences (Beijing)) | | | | |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 2: Role of geoscience and engineering in meeting decarbonization goals - Room 1 | | | | | |
| 12:45 | Lunch | 12:45 | Lunch | 12:45 | Lunch |
| Seismic Acquisition & Processing - Time Lapse Data | | Low Frequency Seismic Data Acquisition and its Impact on Imaging and Inversion 2 - Applications and Way Forward (Dedicated Session) | | Seismic Attributes - Computation & Application | |
| 14:15 | Multi-well 4D DAS VSP: A case study at Mars basin, Gulf of Mexico - H. Gao (CGG) | | Enhancing Massive Land 3D Seismic Data Using Nonlinear Beamforming: Performance, Quality and Practical Trade-Offs - M. Protasov (Trofimuk Institute of Petroleum Geology & Geophysics SB RAS) | 14:15 | Automatic Horizon Extraction Method of Seismic Data Based on Plane Wave Similarity - J. Li (China University Of Petroleum (beijing)) |
| 14:35 | Rapid High-Resolution Monitoring of Shallow CO2 Controlled Release Experiment: Otway Project Feasibility Study - E. Sidenko (Curtin University) | | The Wolfspar® Experience from Concept to Field, What Did We Learn? - A. Brenders (bp) | 14:35 | A New Approach to Optimize the Stratal Slices by Using Multilevel 2D Wavelet Transform - C. Yuan (Research Institute of Petroleum Exploration & Development-Northwest (NWGI), PetroChina) |
| 14:55 | Revealing 4D subsidence with 3D water-bottom travelttime inversion - S. Dega (CGG) | | Can We Retrieve Ultra-Low Frequency Surface Waves from Blended Continuous Recordings? - D. Le Meur (CGG) | 14:55 | Applying spectral information for thin-layered reservoir tracking with deep CNN - H. Al Salmi (Imperial College London) |
| 15:15 | A deterministic 4D processing flow to suppress acquisition-related noise at Dalia and Rosa fields - M. Pouget (CGG) | | Additional Low Frequencies in Broadband Seismic Deliver Increased Confidence in Prestack Inversion and Prospect De-Risking - C. Reiser (PGS) | 15:15 | Improving the Inverse Spectral Decomposition by Using L1 Regularization for Geomorphology Detection and Reservoir Delineation - M.A. Ishak (PETRONAS) |
| | | | Long Offset and Low Frequency Acquisition Aided Full Waveform Inversion Driven Velocity Model Building - D. Vigh (Schlumberger) | | |
| | | | Wednesday Discussion 1 - G. Baeten (Shell International E&P BV) | | |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| 15:55 | Least-Squares dip angle 4D migration for OBN and towed streamer imaging - M. Drwila (CGG) | | Extended Source Inversion: A Potential Alternative to Low-Frequency FWI - W. Symes (Rice University) | 15:55 | Method to Generate Meshless Geological Model from Seismic Data - S. Lacaze (ELIIS) |
| 16:15 | Parametric inversion of water column velocity for cold water statics correction in Ocean bottom seismic surveys - M. Bekara (PGS) | | Multiple Pathways to Low Frequency: Key to the next advancement in imaging & inversion - P. Routh (Exxonmobil) | 16:15 | Fault enhancement method based on dynamic programming - L. Dong (China University Of Petroleum, School Of Geosciences) |
| 16:35 | Broadband processing improves 4D repeatability and resolution at the Sleipner CO2 storage project, North Sea - M. Wierzchowska (PGS) | | Full-Waveform Ambient Noise Inversion - A. Fichtner (Eth Zurich) | 16:35 | Unsupervised Machine Learning for Interpreting Shelf-to-Basin Seismic Geomorphology and Paleoclimate - S. Verma (UT Permian Basin) |
| 16:55 | 4D OBN processing and imaging of a deepwater field. Part I: 4D matched co-processing - C. Ricardez (ION Geophysical) | | Wednesday Discussion 2 & Closing Remarks - F. Ten Kroode | | |
| | The impact of a multi-realisation processing approach on the 4D interpretability - M. Hatab (Heriot-Watt University) | | | | |



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Wednesday, 20 October | Oral presentations

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| ROOM 10 | | ROOM 11 | | ROOM 12 | |
|--|---|---|--|--|--|
| Lithology, Facies and Evolution of Clastic Depositional Systems | | Data and Information Management | | Production & Management - EOR/IOR III | |
| 08:30 | Sedimentological and Lithofacies Analysis of the Fluvial Cambro-Ordovician Saq Formation: Reservoir Analog Study, Saudi Arabia - M. Osman (King Fahd University of Petroleum & Minerals) | 08:30 | National Data Repositories as Platforms for Success in the Energy Transition - A. Roustiau (EBN) | 08:30 | Asphaltenes versus Improved Oil Recovery Methodologies - E. Joonaki (Heriot-watt University) |
| 08:50 | Investigation and Mapping of Upper Jurassic Delta Channels in Central Part of the West Siberian Basin - A. Styrliaeva (LLC GazpromNeft STC) | 08:50 | GeoGraphl: An interactive graph database of openly available seismic datasets - C. Birnie (King Abdullah University of Science and Technology) | 08:50 | Improved Oil Recovery by Low Salinity Water Injection Simulation - J. Trivedi (Memorial University Of Newfoundland) |
| 09:10 | Rejuvenation of the T40-T45 paleogeography model in the Flett Sub-Basin (West of Shetlands) - R. Julien (Total Exploration North Sea And Russia) | 09:10 | Extracting Knowledge with NLP from Massive Geological Documents - C.H. Lun (CGG) | 09:10 | The Performance of Viscoelastic Surfactant-Polymer Flood in Heavy-Oil Carbonate Reservoir – Simulation Study - G. Omonte Rossi (Poweltec) |
| 09:30 | Architecture of thin-bedded turbidites on syn-depositional structure and utilization of image logs - K. Toda (Japan Petroleum Exploration Co., Ltd) | 09:30 | Towards digital twinning for single sensor streamer platforms - S. Rentsch (Shearwater) | 09:30 | Evaluation of EDTA as an EOR Agent in Carbonate Rocks; Insight into the Mechanisms - H. Soleimani (Shiraz University) |
| | | | Unlocking Value from 'Small Data' in Oil & Gas - S. Fielding (Petryx Ltd) | | |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| | | High Performance Computing | | | |
| 10:10 | A 10-Myr record of Late Triassic lake deposition, Fleming Fjord Group, East Greenland - L.B. Clemmensen (University Of Copenhagen) | 10:10 | Parallel Numerical Modeling of Poroelastic Wave Propagation Using Multiple NVIDIA Volta GPUs - Y. Alkhimenkov (University of Lausanne) | 10:10 | Investigation of Performed Particle Gels on Improvement of Water EOR Performance; Using Glass Micromodel and UTCHEM Simulator - A.A. Salehipour Bavarsad (Petroleum University of Technology) |
| 10:30 | SEDIMENTOLOGY, PROVENANCE ANALYSIS, AND ECONOMIC IMPORTANCE OF QUATERNARY LAWRENCEPUR DEPOSITS, DISTRICT ATTOCK, PAKISTAN - A. Munam (University Of The Punjab, Lahore, Pakistan.) | 10:30 | Large Scale Seismic Processing in Public Cloud - L. Felipe (Petrobras) | 10:30 | Simulation of Smart Water Flooding in a Fractured Carbonate Reservoir for Enhanced Oil Recovery - A.H. Eftekhari Nasab (Ferdowsi University of Technology) |
| 10:50 | Seismic Subtle Sequence Boundary Identification, High-Frequency Sequence Framework Establishment and Lithologic Trap Exploration - X. Sha (PetroChina Research Institute of Expl. & Developm.) | 10:50 | DNN-based approach to seismic modelling: mitigation the numerical dispersion - V. Lisitsa (Sobolev Institute of Mathematics) | 10:50 | Partition coefficient of surfactant-polymer in oil and water phases for improved oil production - J. Hou (Aramco Asia Beijing Research Center) |
| 11:10 | Evolution of the Orange Basin; Cretaceous Deepwater Fold-and-Thrust Belts to Cenozoic Mass Transport Systems - N. Maduna (University Of The Witwatersrand) | 11:10 | Adaptation of the FWM algorithm to cloud computing - M. Davydenko (Wavekoda) | 11:10 | Understanding the Enhanced Oil Recovery Performance of Low Salinity Water Injection: Which Mechanism is Predominant? - A. Saeibehrouzi (Coventry University) |
| | Seismic-Sequence Stratigraphy and Paleo-Structure Analysis of Proterozoic Sediment within Ganga Basin, India. - S. Gorain (Directorate General of Hydrocarbons) | | | | |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 2: Role of geoscience and engineering in meeting decarbonization goals - Room 1 | | | | | |
| 12:45 | Lunch | 12:45 | Lunch | 12:45 | Lunch |
| Source Rocks | | Production & Management - Risk and Uncertainty | | Production & Management - EOR/IOR IV | |
| 14:15 | Petroleum Potential of Late Cretaceous Shale of Wadi-1 Well, Chad Basin, Northeastern Nigeria - T. Adedosu (Ladoke Akintola University of Technology) | 14:15 | Production Optimization Brownfield in TLJB Field, South Sumatera (From Hazardous to Sustainability) - M.I. Mashudi (PT Pertamina Hulu Energi (Indonesia)) | 14:15 | A Mechanistic Study of the Effect of Water Salinity on Partitioning of Crude Oil Polar Components - M. Simjoo (Sahand University of Technology) |
| 14:35 | Regional Trends in the Hydrocarbon Generation Potentials of the Fika Shales - Chad Basin, Nigeria - H. Agbogun (Fort Hays State University) | 14:35 | An Improved Methodology for Uncertainty Analysis in Reservoir Simulation Based on a Probabilistic Uncertainty Approach - R. Anton Carro (Repsol) | 14:35 | Experimental Investigation of Thermally Stable Silica Nanoparticles in Porous Media - S.R. Mohd Shafian (PETRONAS Research Sdn Bhd) |
| 14:55 | Hydrocarbon Generation Potential of the Albian to Turonian Lower Post-Rift Succession Orange Basin, South Africa - N.A. Yelwa (University of Malaya, Malaysia) | 14:55 | Data-Driven Approach to Quantify Uncertainty in Wellbore Management through Temperature Logs - A. Alkhalaf (Saudi Aramco) | 14:55 | Experimental Investigation of Synergism between Low Saline Water and Surfactant-Silica Nanoparticle in Enhanced Oil Recovery Processes - A. Esfandiarian (Petroleum University Of Technology) |
| 15:15 | Reconstruction of the Burial and Thermal History of the Beni Suef Basin, North Central Egypt - A.Y. Tawfik (Potsdam University) | 15:15 | Relevance Based Transfer Learning for Reservoir Parameters Prediction with Logs - R. Shao (China University of Petroleum) | 15:15 | Pore-Level Investigation of the Synergistic Effect of a Novel Thermoassociated Copolymer and Smart Water in Micromodel - A. Maghsoudian (Petroleum University of Technology) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| | | Well Construction & Work-Overs | | | |
| 15:55 | TOC Prediction Using Delta Log Resistivity, and Its Distribution in Cyclostratigraphy-INPEFA Trend in "S-Field", Kutai Basin - B. Reinhard (Stt Migas Balikpapan) | 15:55 | A Dynamic Model for Non-Newtonian Drilling Fluid's Filtration in Casing Drilling Technology - M. Vashghani Farahani (Heriot-Watt University) | 15:55 | Multiphase, Multidimensional and Multiphysics (M3) Modeling and Simulation of Microbial Enhanced Oil Recovery Process - M.H. Nami (Amirkabir University Of Technology, Tehran, Iran) |
| 16:15 | Geochemical and Petrographic Attributes of Coals from Ib Valley Basin, India for Oil and Gas Generation - A. Sahoo (IIT(ISM) Dhanbad, India) | 16:15 | Experimental Investigation of Water Based Drilling Fluids Rheological Properties Using Iron Oxide Nanoparticles - H. Ghorbani (Sahand University Of Technology) | 16:15 | Nanoscale Assessment of Sandstone Wettability During Redox Treatment by Atomic Force Microscopy (AFM) - S. Yesufu-Rufai (Imperial College London) |
| 16:35 | Saline Environment Source Rocks Evaluation of Continental Rift Basin: A Case Study in LZW Depression, China - H. Cui (Cnooc Ltd. _tianjin, China) | 16:35 | Selective Waterflood System Paving the Way for Effective Waterflood and Reservoir Management - H. Tyagi (Weatherford International) | 16:35 | Gravity Assisted Steam Flooding (GASF) for Improving Oil Recovery of Foamy Extra-Heavy Oil Reservoirs - Z. Yang (Petrochina Research Institute Of Petroleum Exploration And Development) |
| | | 16:55 | Artificial-Lift Method Screening for One of the Southwestern Iranian Oil Field Based on Fuzzy Logic Approach - H. Asaadian (Norges Teknisk-naturvitenskaplige Universitet (ntnu)) | 16:55 | Enhanced Oil Recovery Performance of Silica Nanofluid in Sandpack Model - D. Joshi (IIT (ISM), Dhanbad) |
| | | | | | Diffusional Classification of Rocks Based on Analogy between Mass Transfer and Electrical Flow through Porous Media - P. Gheisari Karestani (Petroleum University Of Technology) |

Technical Programme

Wednesday, 20 October | Oral presentations

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| ROOM 13 | | ROOM 14 | | ROOM 15 | |
|--|--|--|---|--|---|
| Exploration - Case Studies | | Integrated Reservoir Characterization I | | Reducing Carbon Footprint (Joint EAGE / SPE) | |
| 08:30 | Offshore Madagascar: Reducing Risk through Integrated Fieldwork and Seismic Interpretation - M. Watkinson (EPI Group) | 08:30 | Fold-Thrust Belt Exploration: How to Reduce Risks When Your Seismic Data Are Absent or Poor? - O. Petrovskyy (DEPROIL) | 08:30 | Streamlined Workflow from Experimental Analyses to Dynamic Geochemical Modelling - A.M.S. Elgendy (Eni S.p.A.) |
| 08:50 | Revealing the Hydrocarbon Potential and Quantifying the Prospectivity of the Harper Basin, Liberia, West Africa - F. Winter (TGS) | 08:50 | Probabilistic Estimation of Reservoir Parameters Using the Complementary Nature of Seismic and mCSEM Data - S. Abolhassani (TU DELFT) | 08:50 | Assessment of Seismic Risk in Geothermal and Hydrocarbon Reservoirs Using an Exact Analytical Solution - J. Poesse (PanTerra Geoconsultants B.V.) |
| 09:10 | The Journey of Lang Lebah Discovery and Multidisciplinary Approaches for Carbonate Sweet Spot Targeting - D. Ittharat (PTTEP HKO) | 09:10 | Unraveling Hidden Reserves in Mature Fields by Cutting-Edge Reservoir Characterization - S. Rajput (PETRONAS) | 09:10 | Deployment of Methane Detection and Quantification Technologies - N. Abdul Talip (Petronas) |
| 09:30 | Re-Evaluation of the Forth Approaches Basin: The debatable hydrocarbon prospectivity and the storage potential - V.I. Makri (Institute Of Petroleum Research (IPR/FORTH)) | 09:30 | Utilising Carbonate Lithofacies, Diagenetic Analysis and Rock Flow Properties to Improve Accuracy of Reservoir Quality Mapping - C. Gill (Robertson - A CCG Company) | 09:30 | Research on Construction and Operation Parameters of an Underground Oil Storage In Depleted Salt Caverns - F. Jin (CNPC Engineering Technology R&D) |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| 10:10 | Unlocking new exploration potential in the Gulf of Suez through the application of modern OBN seismic - G. Byerley (Neptune Energy Contractor - Resilient Geosciences) | 10:10 | GeoChron-Based Restoration Workflow Applied to Clyde Seismic Dataset - A. Tertois (Emerson) | 10:10 | Petroleum Industry: An Enabler or Pariah of Net Zero? - A. Hastings (University of Aberdeen) |
| 10:30 | Interpreting 4D seismic for exploration purposes - T. Roste (Equinor) | 10:30 | Geological Modeling Based on a Morphing Algorithm - F. Pivot (Total Sa) | 10:30 | Integrated Strategies for Rapid Carbon Capture, Storage and Utilization (CCSU) Implementation - A.K. Jaya (Institut Teknologi Bandung) |
| 10:50 | Where on Curtin University campus is the dark fibre? - K. Tertysnikov (Curtin University of Technology) | 10:50 | Reflecting on Seismic Inversion: An integrated case study of using inversion products for reservoir description - E. Aghataghiyev (BP) | 10:50 | Advanced Integrated Subsurface Studies with Seismic Attribute Analyses of CO2 Storage Site Field Case for CCS - A. Widyanita (PETRONAS Research SDN BHD) |
| 11:10 | Derisk Exploration Targets Offshore NW Scotland by Combination of Angle Domain Imaging and Machine Learning Techniques - C. Yang (Seismic Image Processing Ltd) | 11:10 | Bayesian linearized inversion of aspect ratio and fracture density based on seismic inversion - R. Feng (University of Copenhagen) | 11:10 | Subsurface Characterization for CO2 Sequestration in Fractured Shale Reservoirs - S. Prajapati (Universiti Teknologi PETRONAS) |
| | | | Prediction of kNN-Based Gas-Bearing Distribution for Tight Sandstone Reservoir - Z. Song (China University Of Petroleum, Beijing) | | CO2 sequestration and ECBM recovery: A new approach for mitigating the effect of global warming - M. Asif (Indian Institute of Technology (ISM), Dhanbad) |
| | | | | | A Comprehensive Review and Status of Renewable Resources and Oil and Gas - C.H. Canbaz (Ege University) |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 2: Role of geoscience and engineering in meeting decarbonization goals - Room 1 | | | | | |
| 12:45 Lunch | | | | | |
| Play & Prospect Evaluation | | Integrated Reservoir Characterization II | | Unconventional and Carbonate Reservoirs (Joint EAGE / SPE) | |
| 14:15 | Application of Play Based Exploration to Mature Resources: A Chalk Case Study in the Dutch Offshore - S. Korevaar (EBN B.V.) | 14:15 | Far_ Near Wellbore Fracture Characterization Using High Resolution Borehole Images and Deep Shear Wave Imaging - N. Kerrouche (Baker Hughes) | 14:15 | Numerical Analysis of the Behavior of Gas Hydrate Layers After Cementing Operations - S. Meray (Department of Petroleum and Natural Gas Engineering, Batman University, Turkey) |
| 14:35 | Extending the Potential Prospectivity Offshore Northwest Africa with Enhanced Imaging of the Palaeo-Shelf Edge Play - F. Winter (TGS) | 14:35 | Utilizing Vintage Logs for Modern Petrophysical Property Modelling of a Rejuvenated Oil Field - Szolnok, Hungary - P. Toth (Oil and Gas Development Central Kft.) | 14:35 | Biopolymer Nanocomposite Smart Fracturing Fluids - A New Development for HTHP Stimulation - G. Chauhan (University of Petroleum and Energy Studies, Dehradun) |
| 14:55 | New Technology Applied in the North Carpathians Results in Significant Estimated Resource Growth - M. Lewis (Discovery Global, LLC) | 14:55 | Porosity prediction from pre-stack seismic data using bidirectional long short-term memory network - N. Yang (China University Of Petroleum (beijing)) | 14:55 | A multi-class approach for the pore-scale flow in unconventional reservoirs - A. Avdonin (Gazpromneft Science & Technology Centre) |
| 15:15 | Fault Leakage Rates Estimated In-Situ: Implications for Fault Seal Evaluation - C. Wibberley (Total) | 15:15 | Combining logging-while-drilling techniques in the interpretation of a reservoir fault - P. Tynan (Baker Hughes) | 15:15 | Characterization of Polymer-Free Foam Fluid for Hydraulic Fracturing Application - A. Verma (Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| 15:55 | Play-Based Yet-to-Find Resource Assessment of the West Greenland Continental Shelf - G. Dam (The Geological Survey Of Denmark And Greenland (geus)) | 15:55 | Direct Bayesian seismic inversion for porosity estimation in a hard rock carbonate reservoir - A. Heidari (University of Tehran) | 15:55 | Hot Ion-Modified Water Flooding, a Key Method for Development of Tight Carbonate Reservoirs with Heavy Oils - M. Rezaei Koochi (Kazan Federal University) |
| 16:15 | Pre-Salt Prospectivity in Brazil and Gabon: Discriminating between Lakes and Lake-Like Water Bodies - R. Crossley (CGG) | 16:15 | Integral prediction of shale gas sweet spot based on a novel intelligent method - K. Qian (Petroleum Exploration and Production Research Institute, SINOPEC) | 16:15 | Experimental investigation of Using Ionic-Liquids as Alternatives of Surfactants in Enhanced-Oil-Recovery Processes for Harsh Carbonate Reservoirs - A. Esfandirian (Petroleum University Of Technology) |
| 16:35 | High Resolution Mega Mapping: A New Approach towards Improved Structural Understanding - Y. Beaucaire (ebn bv) | | | 16:35 | Increasing Medium-Heavy Oil Recovery in Carbonate Reservoirs Using Smart Water Injection - I. Ismail (Hellenic Hydrocarbons Resource Management S.A.) |
| 16:55 | Early tectonic structures concealed by the latest deformation phase might reveal exploration opportunities. An outcrop example. - D. Casabianca (Total E&P UK Limited) | | | 16:55 | The Hybrid Impact of Smart Water and Silica Nanoparticle on Oil Recovery from Carbonate Reservoirs - A. Bazayari (Petroleum University of Technology) |
| | Hydrocarbon Potential of the Malvinas Basin, Southern Argentina - M. Reynald (Halliburton) | | | | Selection Criterion and Economical Evaluation of Refracturing in Tight Gas-Condensate Reservoirs - N. Gasimli (King Fahd University of Petroleum and Minerals) |



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| ROOM 16 | | ROOM 20 | | ONLINE | |
|--|--|--|--|---|--|
| Petroleum Systems of NW Europe 1 (Dedicated Session) | | Dynamic Well and Reservoir Modelling (SPE) | | | |
| 08:30 | North West Europe High Impact Exploration: Activity Levels, Performance and Failure Analyses since 2015 - G. Bagley (Westwood Global Energy) | 08:30 | Modeling and Analysis of Diagnostic Fracture Injection Tests (DFITs) - R. Bakar (Koc University) | | |
| 08:50 | The Central Tertiary Basin of Svalbard – Organic Geochemical Insights from a Non-Prolific Petroleum System - M. Doerner (Equinor Asa) | 08:50 | Fast Upscaling of Polymer Flood Simulations using Fractional Flow and Scaled Mobilities - H. Al-Ibadi (Heriot-Watt University) | | |
| 09:10 | The Importance of Provenance for Triassic Petroleum Systems on the Southwest Barents Shelf - E. Fleming (CASP) | 09:10 | An Integrated Modeling Approach to Estimate the Shut-In Wellhead Pressure for Well Integrity Applications - H. Darwish (Schlumberger) | | |
| 09:30 | Lower Cretaceous Source Rocks on the Sw Barents Shelf - B. Badics (Wintershall Dea Norge AS) | 09:30 | History to Prediction Transition Calibration of Reservoir Simulation Model Ensemble - B.E. Ludvigsen (Aker BP) | | |
| 09:50 | Coffee break | 09:50 | Coffee break | | |
| 10:10 | Application of Unsupervised and Supervised Machine Learning on Geochemical Signatures of Norwegian Continental Shelf Oils - J. Rinna (AkerBP) | 10:10 | Integrated Acid Fracture Model with Reservoir Simulation Under Non-isothermal Condition - T. Tajima (Texas A&M University) | | |
| 10:30 | New Insights on Petroleum Systems in the Vøring and More Basins from Regional and Multidisciplinary Perspectives - M. Allain (Total) | 10:30 | A Practical Approach to Expedite a Pore to Process Simulation Model for a Rich Gas Condensate Reservoir - K. Mansour (Schlumberger) | | |
| 10:50 | Unlocking the Cretaceous Petroleum Systems of the Norwegian Sea - A. Wenke (Equinor ASA) | 10:50 | Optimization of Waterflood Utilizing Data Driven Models: An Application of the Two-Phase Capacitance Resistance Model - A. Alghamdi (Saudi Aramco) | | |
| 11:10 | North Sea Prospects: Predicting Hydrocarbon Presence through Seabed Samples, DNA Fingerprinting and AI - J. Zwaan (Biodentify) | 11:10 | Inertial Effect on Spontaneous Oil-water Imbibition by Molecular Kinetic Theory - W. Tian (China University Of Petroleum (Beijing)) | | |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 2: Role of geoscience and engineering in meeting decarbonization goals - Room 1 | | | | | |
| 12:45 Lunch | | 12:45 Lunch | | 12:45 Lunch | |
| Getting Inside the Reservoir (Dedicated Session) | | Reservoir Characterization, Surveillance and Management (SPE) | | Seismic Processing - Attenuation | |
| 14:15 | Facies Modelling of Paleokarst Reservoirs: Constraints and Feasibility - J. Tveranger (NORCE Norwegian Research Centre AS) | 14:15 | Restoring Erroneous or Missing Rates in Interfering Wells Using Multiwell Deconvolution - K. Razminia (Imperial College London) | 14:15 | An Approximate Approach of Ray Velocity and Attenuation in Viscoelastic Anisotropic Media Based on Perturbation Theory - J. Wu (Khalifa University of Science and Technology) |
| 14:35 | A Depositional Facies Control on Porosity Preservation in Deeply Buried Reservoirs, the Ula Formation, NOCS - J.P. Cummings (Stratum Reservoir) | 14:35 | Interpretation of Permanent Well Monitoring Data to Improve Characterization of a Giant Oil Field - H.C. Walker (University of Stavanger) | 14:35 | Inversion-Based Multitrace Absorption Compensation with Lateral Regularization - J. Li (China University of Petroleum-Beijing) |
| 14:55 | Decoding the Impact of Tidal Influence vs Burial Diagenesis in the Fogelberg Discovery, Halten Terrace, Norway - P. Milstead (Spirit Energy) | 14:55 | Dynamic Reservoir Analysis of Corrib Field Surveillance Data Through the Use of Advanced Deconvolution Techniques - A. Thatcher (Opc) | 14:55 | Equivalent Q Estimation Using a Deep-learning-based Decoupling Method - L. Xu (Xi'an Jiaotong University) |
| 15:15 | Deep-Marine Hyperpynal Sandstones and Implications for Exceptional Reservoir Quality Preservation - J. Cater (Petrostrat Limited) | 15:15 | Integrated Brownfield Opportunity Identification Using the Efficiency Factor Approach - R. Julier (Independent Consultant) | 15:15 | Attenuation compensation based on U-Net - C. Zhou (China University Of Petroleum (beijing)) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| 15:55 | Creating Geological Concepts and Buzzard Infill Opportunities; An Innovative Plumbing Review Drawing Insight from Production Surveillance - R. Webber (CNOOC International Ltd.) | 15:55 | Systematic Application of Pressure and Temperature Transient Analysis in an Oil Field: A Case Study - K. Muradov (Heriot-Watt University) | 15:55 | Combination of compressional and shear attenuations to investigate a carbonate reservoir - F. Bouchaala (Khalifa University of Science and Technology) |
| 16:15 | Characterizing the Architectural Basis of the Slow Gas Effect - J. Mullins (University of Aberdeen) | 16:15 | Development of Time Lapse VSP Integration Workflow: A Case Study at Farnsworth CO2-EOR Project - R. Balch (New Mexico Tech) | 16:15 | Depth Domain Q Estimation and Application - Gulf of Mexico Case Study - A. Elsabee (Repsol) |
| 16:35 | Rock Physics Diagnostic of Deep-Water Clastics Honoring Burial and Depositional Trends - P. Avseth (Dig Science) | 16:35 | A Novel Naturally Fractured Reservoirs Classification Plot - R. Alcantara Viruete (PEMEX E&P) | 16:35 | Near surface Q compensation technology and its application in lithologic reservoir exploration in Qaidam basin - Y. Ling (Northwest Branch, Research Institute of Petroleum Exploration&Development, Petrochina) |
| | | 16:55 | Cyclic Production Scheme Application in North Kuwait for Reservoir Management - D.A. Alsubaieii (Koc) | 16:55 | Near Surface Q Compensation and Its Effect on Restoring Frequency Consistency - J. Wang (Research Institute of Petroleum Exploration & Development - Northwest, Petrochina) |
| | | | Produced Water Quality: The Effects of Different Separation Methods - J. Almorihil (Saudi Aramco) | | |

Technical Programme

Wednesday, 20 October | ePoster presentations

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| EPOSTER A | | EPOSTER B | | EPOSTER C | |
|---|---|---|---|---|---|
| ePoster: FWI Applications and Methods | | ePoster: Multiple Imaging | | ePoster: Seismic Interpretation - Enhanced Methods | |
| 08:30 |  Inversion-based Imaging: FWI beyond Velocity - Y. He (TGS) | 08:30 |  Sensitivity of Marchenko Imaging to Direct Arrival Time - Z. Gu (Zhejiang University; University of California, Santa Cruz) | 08:30 |  Frequency division constraint seismic stochastic inversion method and its application in Bohai Bay - X. Duan (CNOOC) |
| 08:50 |  Full-waveform inversion with a pre-conditioned approach of Love-wave in near-surface prospecting - J. Guan (Chang'an University) | 08:50 |  Stable solutions in Marchenko iterative scheme with Beyond Neumann - J. Maciel (Senai Cimatec) | 08:50 |  The added value of WEB-AVO inversion for geothermal project development: a 2D reservoir characterization case study - M. Leewis (EBN B.V.) |
| 09:10 |  Using a broadband wavelet for full waveform inversion on reflected seismic waves - H. Liu (Saudi Aramco) | 09:10 |  Q-Compensated Least-Squares Reverse Time Migration of Different-Order Multiples - Y. Qu (China University of Petroleum (East China)) | 09:10 |  Reflection of inhomogeneous seismic waves at the free surface of an effective Biot solid - X. Liu (King Fahd University of Petroleum and Minerals) |
| 09:30 |  Proximal-Newton Methods to Solve Non-Linear Problems with Non-Smooth Regularizations - A. Gholami (University of Tehran) | 09:30 |  The Joint Imaging of Primary and Internal Multiples - Y. Ding (China University Of Petroleum (East China)) | 09:30 |  AVO Sparklines - A. Crosby (BP Exploration Operating Co. Ltd) |
| | | |  Research on Visco-Acoustic LSRTM of the First-Order Multiples in Survey with Acquisition Gaps - Z. Li (China University of Petroleum) | | |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| 10:10 |  On the gradient calculation in 1.5-dimensional joint migration inversion - Y. Sun (ARAMCO) | | | 10:10 |  Extended Elastic Impedance Template - J. Sharifi (Ferdowsi University of Mashhad) |
| 10:30 |  Augmented Lagrangian based full-waveform inversion with Anderson acceleration - K. Aghazade (University of Tehran) | | | 10:30 |  Continuous and elastic consistent reflection and transmission at an interface separating two poro-viscoelastic materials - X. Liu (King Fahd University of Petroleum and Minerals) |
| 10:50 |  Iterative reconstruction of data assimilated wavefields in the extended-source full-waveform inversion - A. Rezaei (University Of Tehran) | | | | |
| 11:10 |  An effective scheme of pseudo-time Joint migration inversion with an AVO mitigating workflow - E. Verschuur (Delft University of Technology) | | | | |
| |  Central-frequency misfit function for full-waveform Q inversion in 2D/3D viscoelastic medium - W. Pan (Institute of Geology and Geophysics, Chinese Academy of Sciences) | | | | |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 2: Role of geoscience and engineering in meeting decarbonization goals - Room 1 | | | | | |
| 12:45 Lunch | | 12:45 Lunch | | 12:45 Lunch | |
| ePoster: FWI Approaches | | ePoster: Seismic Interpretation - Lithology Mapping | | ePoster: Seismic Interpretation - Theoretical Advances II | |
| 14:15 |  3D full waveform inversion for ocean-bottom seismic data based on the acoustic-elastic coupled wave-equation system - J. Cao (University Grenoble Alpes) | 14:15 |  Physical model of dolomite reservoir in Gucheng area - L. Wei (China University Of Petroleum (Beijing)) | 14:15 |  Joint Inversion of Porosity and Permeability Based on Velocity Dispersion in 3D Two-Phase Orthotropic Crack Medium - X. Zhang (CNOOC Research Institute Co., Ltd.) |
| 14:35 |  A Dynamic Sampling FWI Method Based on 3D Seismic Wave Reverse Illumination - Y. Qu (China University Of Petroleum (East China)) | 14:35 |  Multi-Azimuth Quantitative Interpretation: A Case Study from the South Viking Graben, Norway - C. Reiser (PGS) | 14:35 |  Experimental Study of Seismic Anisotropy in Artificial Fractured Rocks with Different Porosities - Y. Zhang (China University Of Petroleum (Beijing)) |
| 14:55 |  Seismic Waveform Inversion with Source Manipulation - R. Wang (Tsinghua University) | 14:55 |  Quantitatively Evaluating the Preservation of Deep-water Channel Architecture using 3D Synthetic Seismic from Outcrop - T. Langenkamp (Colorado State University) | 14:55 |  Multi-Scale Fracture Prediction Technology in Tight Oil Reservoir - P. He (Research Institute of Petroleum Exploration and Development, CNPC) |
| 15:15 |  Joint reflection and diving FWI using graph-space optimal transport and structure-guided smoothing on benchmark data - G. Provenzano (Univ. Grenoble Alpes) | 15:15 |  Elastic-electrical rock-physics template of tight-oil reservoirs with high clay content - M. Pang (Hohai University) | 15:15 |  A Young's modulus inversion and fracture prediction method and application for offshore wide azimuthal OBC data - J. Wang (CNOOC Research Institute Co., Ltd.) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| 15:55 |  A Frequency-Domain Staining Algorithm for Full Waveform Inversion with Low SNR Data - Y. Yu (University of Science and Technology of China) | 15:55 |  Inversion of SH-SH wave anisotropy parameters in VTI media - B. Wang (China University Of Petroleum (Beijing)) | 15:55 |  An approximation for calculating R/T coefficients in viscoelastic VTI media - J. Wu (Khalifa University of Science and Technology) |
| 16:15 |  Regularized Crosstalk-Free Simultaneous-Source FWI with Truncated SVD - Q. Zhang (Innovation Academy for Precision Measurement Science and Technology, Chinese Academy of Sciences) | 16:15 |  Spherical-wave frequency-dependent inversion for density estimation - B. Yan (China University of Petroleum) | 16:15 |  Study on seismic response characteristics and prediction methods of fracture - N. Li (Zhongyuan Oilfield Company) |
| 16:35 |  Improving adaptive waveform inversion by local matching filter - P. Yong (Université Grenoble Alpes) | 16:35 |  Amplitude-Versus-Angle Analysis from Fresnel Volume Migration: A Potentially Effective Tool for Hard-Rock Characterization - T. Jusri (TU Bergakademie Freiberg) | 16:35 |  Integrated Characterization of Deep Karsted Carbonates by Spatially Gaussian Windowed 2D Hilbert Transform-Based Volumetric Edge Detection - X. Chen (Chengdu University of Technology) |
| 16:55 |  Inverse Scattering for Schrödinger Impedance Equation and Simultaneous ρ - v Inversion in Layered Media - H. He (University Of California, Santa Cruz) | | | 16:55 |  Extended anisotropic linear approximation of group velocity in TI media - K. Liang (China University Of Petroleum (East China)) |
| | | | | |  Slowness Vector vs. Ray Direction in Polar Anisotropic Media - I. Ravve (Emerson, Department of Research & Development) |



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Wednesday, 20 October | ePoster presentations

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| EPOSTER D | | EPOSTER E | | EPOSTER F | |
|--|---|---|---|---|---|
| ePoster: Rock Physics II | | ePoster: Simultaneous Sources | | ePoster: Carbonate Reservoir Rocks | |
| 08:30 | Trained BPNN Method and Application in Tight Gas Sandstone Formation Lithology classificatio - Z. Wang (CNOOC Research Institute Co., Ltd.) | 08:30 | Joint deblending and source deghosting with focal transformation - J. Cao (Delft University of Technology) | 08:30 | Localised Folding: The Role of Curvature and Thickness of the Folded Layer - P. Behnoudfar (Curtin University) |
| 08:50 | S-wave velocity prediction from P-wave velocity for different reservoir rocks based on deep neural network - G. Feng (China University Of Petroleum(Beijing)) | 08:50 | Robust multistage separation of simultaneous sources using priors - Y.I. Kamil (Schlumberger) | 08:50 | Origin and Evolution of Paleofluid of the Middle Permian Maokou Formation in Southern Sichuan Basin - M. Ren (Research Institute Of Petroleum Exploration And Development, Cnpc) |
| 09:10 | The characteristics of seismoelectric interface response measured in rock sample - L. Zhang (China University Of Petroleum(Beijing)) | 09:10 | Inherent challenges of randomized shooting strategies on deblending and a robust multistage prior based solution - R. Kumar (Schlumberger) | 09:10 | Contribution to the Eocene Sediments in Egypt: A New Formation Name for the Early-Middle Eocene Sediment - A. Radwan (The Jagiellonian University) |
| 09:30 | Velocity dispersion in sandstone under partially saturated conditions - X.Y. Ma (sinopec Geophysical Research Institute) | 09:30 | Deblending using periodic time delays for hexasource variable depth streamer data - Y. Ren (TGS) | 09:30 | Evolution of Paleogeomorphology and sedimentary of the Late Cretaceous on the H oilfield, Iraq - N. Wang (Petrochina Research Institute of Petroleum Exploration and Development) |
| | A method to predict S-wave velocity from wire-line logs for organic- rich shales - Z. Liu (Chang'an University) | | Seismic Simultaneous Source Separation via an unsupervised deep learning method - W. Xu (School Of Information And Communications Engineering, Xi'an Jiaotong University, Xi'an, China) | | |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| | | ePoster: Seismic Acquisition & Processing - High Resolution for Shallow Subsurface | | | |
| | | 10:10 | High-Resolution Surface-Wave Dispersion Spectrum Imaging with a Multichannel Signal Comparison Method - J. Yi (China Earthquake Administration) | 10:10 | Carbonate Pore Systems Variability in Shallow Marine Uppermost Jubaila Fm: Arab-D Reservoir Analogue in Saudi Arabia. - L.B. Stawan (King Fahd University of Petroleum & Minerals) |
| | | 10:30 | P-Wave Velocity at Shallow Depths in Sand Dunes and Its Effect on Static Correction - S. Hanafy (KFUPM) | 10:30 | Diagenesis, Depositional Model and Stratigraphic Evolution of the Margalla Hill Limestone, Southeast Hazara - M. Mehboob Gill (Institute Of Geology) |
| | | 10:50 | Assessment of Sand Dune Volume Using Seismic Refraction in the Atlantic Coast, NW of Morocco - D. El Ouai (Institut Scientifique, Université Mohammed V de Rabat) | 10:50 | Application of Spectral Decomposition as a tool for carbonate geobodies extraction. - G. Jimenez Soto (The Southeast Asia Carbonate Clastic Laboratory) |
| | | 11:10 | In-mine Underground Tunnel Seismic Experiment using High-resolution Reflection Seismic Method at Maseve Mine, Rustenburg, South Africa. - E. Onyebueke (University Of The Witwatersrand) | 11:10 | The sedimentary evolution of SEA Carbonates throughout the Oligocene-Miocene Transition: An example from Subis Limestone, Malaysia - B.B. Saw (SEACARL, Universiti Teknologi PETRONAS) |
| | | | Shallow Water Hi-Resolution Combined Streamer and Ocean Bottom Hybrid Seismic Acquisition in the Middle East - J. Wallace (SynchroSeis) | | |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 2: Role of geoscience and engineering in meeting decarbonization goals - Room 1 | | | | | |
| 12:45 | Lunch | 12:45 | Lunch | 12:45 | Lunch |
| ePoster: CESM, EM Methods, Remote Sensing - Multidisciplinary Approach | | ePoster: Multiple Attenuation - Novel Approaches and Case Studies "Mix" | | ePoster: Regional Structural Geology | |
| 14:15 | Near-Surface Electromagnetic Methods Joint Realization in Addition to Seismic Data in the Russian Arctic - I. Perepletkin (Industrial University of Tyumen) | 14:15 | Target Internal Multiple Removal by Using Modified ISS Internal Multiple Attenuation Algorithm - J. Yang (SINOPEC Geophysical Research Institute) | 14:15 | Geological Structure and Oil and Gas Potential of Paleozoic at the South-East of West Siberia - M. Solov'yev (IPGG SB RAS) |
| 14:35 | Separating and Sparse Imaging of GPR Diffractions by Dictionary Learning and Least-Squares Migration - J. Zhao (China University of Mining & Technology (Beijing)) | 14:35 | Fast and Robust Primary-Multiple Separation in the Curvelet Domain - B. Jiang (Tsinghua University) | 14:35 | Seismogeological Characteristics and Petroleum Potential of the Siberian Platform Arctic Regions and the Laptev Sea - A. Kalinin (Trofimuk Institute of Petroleum Geology & Geophysics SB RAS) |
| 14:55 | Remote sensing, geological and geophysical integration – Study case in Valinho de Fátima, Portugal - J. Duarte (IQGeo, Lda) | 14:55 | A Closed Formula for True-Amplitude Overburden-Generated Interbed De-Multiple - M. Dukalski (Aramco Overseas Company B.V.) | 14:55 | Squeezed Diapirs of the Timan Pechora Basin: Structure, Evolution and Petroleum Prospectivity - K. Sobornov (NUPCO) |
| 15:15 | Research on 3D Finite-element Forward Modeling for Frequency-Domain Airborne EM Using Octree mesh - X. Han (Jilin University) | 15:15 | The Separation of Irregular Multiples Based on the Focal Transform - Z. Li (China University of Petroleum) | 15:15 | Structural models in Ultra-deep layer of the Kuqa salt-bearing fold-thrust belt, West China - B. Yan (China University of Petroleum) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| 15:55 | Shearlet-based 3D inversion for frequency domain airborne electromagnetic data - Y. Su (Jilin University) | 15:55 | 3D surface-related multiples elimination based on apex-shifted Radon transform - F. Yang (Jilin University) | 15:55 | The Geological Significance of the Seismic Events in the Jianshan Formation of the Bayan Obo Group - F. Kewen (Research Institute of Petroleum Exploration & Development) |
| 16:15 | Modeling magnetotelluric data from Tuzla-Çanakkale hydrothermal system with particle swarm optimization to image cap rock structure - E. Buyuk (Istanbul Technical University) | 16:15 | Surface-related multiple attenuation based on deep learning - Q. Jiao (China University of Petroleum (Beijing)) | 16:15 | Deformation Patterns in Western Offshore Libya: Partial Decoupling of Strike-Slip and Salt Tectonics - N. Khalifa (RWTH Aachen University) |
| 16:35 | Physics-informed deep learning for magnetotelluric 2D forward modeling - H. Wang (College Of Geoscience Science And Technology, Jilin University) | 16:35 | The method and effect of full-band suppression of the ringing and reverberation in extra-shallow water area - Z. He (Cnpc) | 16:35 | Westphalo-Stephanian syn-kinematic sedimentation revealed by growth strata in the Landroff syncline, Lorraine Coal basin, NE France - M. Momboukou (Georesources Laboratory) |
| 16:55 | Time-Domain CSEM Modelling Using Frequency- and Laplace-Domain Computations - D. Werthmüller (TU Delft) | | | | |
| | Appearance of magnetic storms in variations of electrical parameters in the surface layer of the atmosphere - S. Riabova (Sadovsky Institute of Geosphere Dynamics of Russian Academy of Sciences) | | | | |

Technical Programme

Wednesday, 20 October | ePoster presentations

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| EPOSTER G | | EPOSTER H | | EPOSTER I | |
|--|--|---|--|---|--|
| ePoster: Static Geomodels | | ePoster: Unconventional HCs - Laboratory and Modeling Studies | | ePoster: Geothermal Energy - Geology, Modeling and Well Construction Case Studies | |
| 08:30 |  An Adaptive Finite Element Method for Calculating the Stress Field of Reservoir - R. He (Research Institute Of Petroleum Exploration & Development-Northwest(NWGI), Petrochina) | 08:30 |  A Mathematical Model of Water Spontaneous Imbibition into Oil-Saturated Fractures in Unconventional Reservoirs - F. Wang (China University Of Petroleum (Beijing)) | 08:30 |  Conceptual Geological Model of the Bedretto Underground Laboratory for Geoennergies - R. Castilla (Geo-Energie Suisse) |
| 08:50 | Modeling Complex Tectonic Structures in Any Kind of Grid without Space Deformation - J. Chautru (Geovariances) | 08:50 |  A Novel Method for Determination of Fluid Confinement Effects on Gas Condensate Dew Point Pressure - H. Doryani Daryuni (Heriot Watt University) | 08:50 | GPOS Evaluation for Geothermal Projects in the Netherlands - H. Van Lochem (Argo Geological Consultants B.V.) |
| 09:10 |  Forward Stratigraphic Modelling at reservoir scale, statistical comparison with common geostatistical methods and fractal behaviour - A. Fournillon (Beicip-Franlab) | 09:10 |  Hydraulic Fracturing: Coulomb Failure in Shale Fracturing - S. Prajapati (Universiti Teknologi PETRONAS) | 09:10 | Geothermal fluid flow in deep carbonates and its impact on long-term reservoir performance: natural systems - I. Kaminskaitė (Northeast Petroleum University) |
| 09:30 |  Incorporating Vertical Permeability into Geological Modelling - K. Milne (Tracs International) | 09:30 |  Generation of Molecular Nitrogen from Overmature Black Shales in South China: Implications from Pyrolysis Experiments - H. Tian (Guangzhou Institute of Geochemistry) | 09:30 |  CORRELATION OF ARSENIC GAS WITH SUBSURFACE TEMPERATURE TO DETERMINE A HEAT SOURCE ON "U" GEOTHERMAL SYSTEM - T. Taufiq (Pertamina) |
| | Fault Modeling and Analysis using implicit functions - J. Rainaud (Geosiris) | | | | |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| ePoster: Dynamic Reservoir Characterization and Modelling | | | | | |
| 10:10 | Pore-pressure diffusion caused by non-Newtonian fluid injection - Y. Rao (China University of Petroleum (Beijing)) | 10:10 | Study of the Properties of Gas Hydrates on Model Samples by Laboratory NMR Relaxometry Method - E. Chernova (Novosibirsk State University) | 10:10 | The Validity of 2D Models in Thermal Simulation - J. De Kok (SGS Subsurface Consultancy) |
| 10:30 | Shallow Water Delta Reservoir Configuration Analysis in Qk Oilfield, Bohai Bay Basin - Z. Li (Cnooc (China) Tianjin Branch of Bohai Sea Oil Field Research Institute) | 10:30 | S-Wave Velocity Prediction for Pore-Filling Gas Hydrate-Bearing Sediments - X. Liu (Qingdao Institute of Marine Geology) | 10:30 | The Impact of Thermo-Hydro-Mechanical Stress on Wellbore Strengthening: An Analytical Study - S.M. Mirabbasi (Amirkabir University of Technology) |
| 10:50 |  Principles and application of a seismic trend anomaly diagnostic technique: a case in carbonate reservoir, Tarim Basin - H. Li (Petrochina Research Institute Of Expl. & Developm.) | 10:50 |  3D Characterization of Pore Microstructure and Implications for Flow Transport Property of Tight Reservoirs - Y. Su (China University Of Petroleum) | 10:50 | Upgrading a Geothermal Doublet in the West Netherlands Basin - C. Leo (PanTerra Geoconsultants B.V.) |
| 11:10 |  Projection-based autoregressive neural network for model-reduced adjoint-based variational data assimilation - C. Xiao (China University Of Petroleum, Beijing) | 11:10 |  Deep Understanding of Shale Oil Reservoir with Logging-while Drilling Electromagnetic Image in Oil-based Mud - S. Yang (Schlumberger) | | |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 2: Role of geoscience and engineering in meeting decarbonization goals - Room 1 | | | | | |
| 12:45 | Lunch | 12:45 | Lunch | 12:45 | Lunch |
| ePoster: Flow Simulation | | ePoster: Naturally Fractured Reservoir | | ePoster: Geomechanics & Pore Pressure | |
| 14:15 |  Numerical Simulation of the Propagation of Viscous Fingering and Aspect Ratio on Surfactant Flooding - O. Akinyele (Heriot-Watt University) | 14:15 |  Characterization of fractured carbonate reservoirs: preliminary data from Miocene reef outcrops of Cyprus - I. Abdallah (University Of Nicosia) | 14:15 |  Mineralogy Based Geomechanical Behavior of Draupne Caprock Shales in the Northern North Sea, Offshore Norway - M.J. Rahman (University Of Oslo) |
| 14:35 |  Pressure Transient Analysis in Vertically Fractured Multi-well System - S. Wang (China National Offshore Oil Corporation Research Institute) | 14:35 | Assessing paleo-fluid circulation in a geothermal system: from structural analysis to fracture diagenesis - M. Perret (IFP Energies Nouvelles) | 14:35 |  Graphical Method for Constraining the Local Stress State in Arbitrarily-Oriented Wells Using Drilling-Induced Tensile Fracture Observations - A. Michael (Cypriana Petroleum Technology, LLC) |
| 14:55 |  Emulsification of Surfactants during Bitumen Recovery: Molecular Dynamics Simulation - M. Ahmadi (University of Calgary) | 14:55 |  Fracture Characterization and DFN Modelling of the El Guerria Carbonate Reservoir in Zarat Field - S. Mtir (ETAP) | 14:55 |  Application of the Analysis of Variance for Converting Dynamic to Static Young's Modulus - J. Sharifi (Ferdowsi University of Mashhad) |
| 15:15 |  Integrated Mature Field Management System from Rapid Production Update to History Matching - Q. Yan (Schlumberger) | 15:15 | Application of Geomechanically-Based Fracture Models to a Fractured Chalk Field, Offshore Denmark - M. Welch (DTU) | 15:15 |  Unlocking Methane Desorption Effects in Reservoir Compaction and Subsidence Computations for a Coal Seam Gas Development - N. Hummel (Shell Global Solutions International B.V.) |
| | | | An Integrated Formation Evaluation Approach Evaluated the Basement Temperature Anomaly - C. Ciuperca (Weatherford) | | |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| | | ePoster: Subsurface Characterization for CO2 Storage | | | |
| 15:55 |  An Investigation of Practical Upscaling Parameters for Enhanced Water Alternating Gas Processes from Laboratory to Field-scale - L. Hendrainingrat (PETRONAS) | 15:55 |  Geological characterization of the hydraulically-connected Bunter Sandstone Formation saline aquifer in the Southern North Sea - P. Bridger (British Geological Survey) | 15:55 |  Evaluation of Reservoir Compartmentalization Using Seismic Pore Pressure Modeling in an Oil Field in Persian Gulf - P. Adabnezhad (University of Tehran) |
| 16:15 |  Molecular Modelling of Surfactant-Steam-Heavy Oil Mixture - M. Ahmadi (University of Calgary) | 16:15 |  AI Fault Interpretation of vintage seismic data with implications for CCS site characterisation - R. Williams (Geoteric) | 16:15 |  Campeche Deepwater Pore Pressure and Stress Modeling Using 3D Basin Simulation - A. Parent (Schlumberger) |
| 16:35 |  Study on the Response Characteristics of Gas Reservoir in X Area by 3D Seismic Physical Simulation - G. Wang (PetroChina) | 16:35 | Analytical Modeling of Flow Regimes During Cyclic CO2 Injection in Hydraulically Fractured Tight Reservoirs for EOR - J. Mugisha (Middle East Technical University, Northern Cyprus Campus) | 16:35 | Geomechanical Study on Strengthening a Wellbore with Multiple Natural Fractures: A Poroelastic Numerical Simulation - S.M. Mirabbasi (Amirkabir University of Technology) |
| 16:55 |  Impact of Compositional Gradient on Dynamic Heterogeneity at Different Well Patterns - Z. Bahmani (Shiraz University) | 16:55 |  DAS System Modeling and Data Validation for CCS Monitoring - A. Chavarria (OptaSense) | 16:55 |  New equation for predicting Critical desorption pressure of coal seam gas based on BP neural network - H. Sun (Cnooc Research Institute Co., Ltd) |
| | | | | |  The Application of in-situ Stress Prediction in Shale Gas Reservoir Through Pre-stack Seismic Anisotropy Inversion - B. Du (NW-Research Institute of Petroleum E&D PetroChina) |



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Wednesday, 20 October | ePoster presentations

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| EPOSTER J | |
|--|---|
| ePoster: Digitalization & AI: Physics Guided and the Markov Model | |
| 08:30 | Traveltime computation for qSV waves in TI media using physics-informed neural networks - U.B. Waheed (King Fahd University of Petroleum and Minerals) |
| 08:50 | Lithology Identification Based on Hidden Markov Model and Random Forest - P. Wang (China University of Petroleum - Beijing) |
| 09:10 | Physics embedded machine learning for producer to injector conversion optimization in waterfloods: A field application - C. Calad (Tachyus) |
| 09:30 | Karst cave detection using physical model dataset and deep learning - J. Yang (China University Of Petroleum) |
| 09:50 | Coffee break |
| 10:10 | Localization of microseismic events using the physics-informed neural-network for traveltime computation - S. Grubas (University of Alberta) |
| 10:30 | Langevin Dynamics Markov Chain Monte Carlo Solution for Seismic Inversion - M. Izzatullah (King Abdullah University of Science and Technology) |
| 10:50 | Lithology prediction from seismic data using Random Forests algorithm - G. Wang (China University Of Petroleum (East China)) |
| 11:10 | GSA - GeoScience Advisor - R. Ferreira (IBM Research) |
| 11:30 | Coffee break |
| 11:45 | Forum Session 2: Role of geoscience and engineering in meeting decarbonization goals - Room 1 |
| 12:45 | Lunch |
| ePoster: Digitalization & AI: Resolution | |
| 14:15 | SEISMIQB - A Novel Framework for Deep Learning with Seismic Data - S. Tsimfer (Gazpromneft) |
| 14:35 | Evaluating Point Set Distance Measures for 2D Seismic Analysis - R. Ferreira (IBM Research) |
| 14:55 | Improving Seismic Resolution by a Sequential Convolutional Neural Network - Z. Yuan (China University of Petroleum - Beijing) |
| 15:15 | Transferring elastic low frequency extrapolation from synthetic to field data - O. Ovcharenko (KAUST) |
| 15:35 | Coffee break |
| 15:55 | Research on low frequency compensation method based on deep learning - Z. Wang (China University Of Petroleum-Beijing) |
| 16:15 | A high-precision diffraction multiples suppression method based on the detection neural network - X.Y. Tian (Tsinghua University) |
| 16:35 | Research on First-Break Picking Using Convolution Neural Networks - W. Hsu (China University of Petroleum (East China)) |

Technical Programme

Thursday, 21 October | Oral presentations

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| ROOM 1 | ROOM 2 | ROOM 3 |
|---|--|---|
| Digitalization & AI: Seismic Interpretation II | FWI Case Histories: Land | Wavefield Modelling I |
| 08:30  An Automated and Robust Solution of K-Means Cluster Analysis Based on Most Frequent Value Approach - M.N.A. Akbar (MOL Hungary) | 08:30  Acoustic Land Full-Waveform Inversion with Free-Surface Topography in Oman - G. Royle (CGG) | 08:30  Seismic Wave Numerical Simulation in Seafloor Cold Seepage Plume Flow with Bubbly Liquid Acoustic Equation - S. Zhang (China University of Petroleum) |
| 08:50  Deep Embedded Clustering as a Seismic Attribute: A Case Study of 2D Crustal-Scale Interpretation - M. Mezyk (Institute of Geophysics, Polish Academy of Sciences) | 08:50 Subsurface Imaging with Elastic FWI using Surface and Diving Waves: 3d Land Data from South Oman - M. Danilouchkine (Shell Global Solutions International BV) | 08:50 Frequency-Domain Finite Difference Heterogeneous Multiscale Method for Acoustic Wave Modelling - W. Jiang (Chengdu University Of Technology) |
| 09:10 Few-shot Learning for Semantic Segmentation of Seismic Data - T. Papadopoulos (Earth Science Analytics AS) | 09:10  Multi-Wave and Full-Waveform Inversion in Southern Oman - S. Masclet (CGG) | 09:10  A new temporal high order and spatial implicit finite-difference scheme for acoustic wave modeling - J. Wang (China University of Petroleum (Beijing)) |
| 09:30  Seismic Acoustic Impedance Estimation by Learning from Sparse Wells via Deep Neural Networks - H. Di (Schlumberger) | 09:30  Reflection Full Waveform Inversion of Walkaway VSP – Abu Dhabi Case Study - A. Shigematsu (JX Nippon Oil & Gas Exploration) | 09:30  A Multi-Axial Perfectly Matched Layer for Finite-Element Time-Domain Simulation of Elastic Wave Propagation - H. Li (University Of Science And Technology Of China) |
| |  Integrated high-resolution model building: a case study from the Sultanate of Oman - M.S. Farooqui (CGG) | |
| 09:50 Coffee break | 09:50 Coffee break | 09:50 Coffee break |
| | FWI Methods & Applications | |
| 10:10  Prestack AVO Attributes Inversion Using Convolutional Neural Network - S. Sun (Tongji University) | 10:10 Full-Bandwidth FWI - M. Warner (Imperial College London) | 10:10  Topography-Dependent Frequency-Domain Finite-Difference Visco-Elastic Wavefield Simulation - Z. Zhao (China University of Petroleum (Beijing)) |
| 10:30 A Case Study of Understanding the Bonaparte Basin using Unstructured Data Analysis with Machine Learning Techniques - F. Baillard (Iraya Energies) | 10:30  Sharp-interface imaging in full waveform inversion using finite elements - A. Laurain (University of São Paulo) | 10:30  Discontinuous Galerkin Finite Element Method Using the Modified ADE CFS-PML for Seismic Wave Modeling - Y. Xu (Southern University Of Science And Technology) |
| 10:50  A physics-based loss function to constrain neural network inversion of 4D seismic data - G. Corte (Heriot-Watt University) | 10:50 A time consistent waveform inversion (TWIN) method - R. Valensi (Opera-Applied Geophysical Research Group) | 10:50  Elastic Wave Simulation Beyond Conventional Courant-Friedrichs-Lewy Stability Limit by Variable Length Staggered-Grid Finite-Difference - H. Zhou (China University of Petroleum(Beijing)) |
| 11:10  Elastic wave mode decomposition in anisotropic media with convolutional neural network - H. Huang (Tongji University) | 11:10  Land FWI: Challenges and Possibilities - D. Wang (CGG) | 11:10  The Effect of the Pseudo-Spherical Wave to the Reflectivity - Y. Tao (Sinopec geophysical research institute) |
| Lithology segmentation using deep neural network - J. Lin (University Of British Columbia) | | |
| 11:30 Coffee break | 11:30 Coffee break | 11:30 Coffee break |
| 11:45 Forum Session 3: Great Career Challenge - the changing education and opportunities for tomorrow's energy professionals - Room 1 | | |
| 12:45 Lunch | 12:45 Lunch | 12:45 Lunch |
| Digitalization & AI: Reservoir and Wells | Velocity Model Building II | Wavefield Modelling II |
| 14:15 Predicting Flow Rate from Downhole Pressure and Temperature with Deep Learning - J. Zhao (China University Of Petroleum, Beijing) | 14:15  Extended domain FWI via time warping - G. Huang (PGS) | 14:15  On the inverse propagation of surface receiver wavefields in 1.5-dimensional joint migration inversion - Y. Sun (ARAMCO) |
| 14:35  Reservoir Productivity Prediction Based on a Hybrid Deep Neural Network - Z. Yuan (China University of Petroleum - Beijing) | 14:35 Applicability of Migration Velocity Analysis on a Marine Real Data Set - T. Zhou (Total SA) | 14:35  High-Precision Simulation of Transmitted Wave Field of Two-Way Wave Field in VTI Media - B. Zhang (Tongji University) |
| 14:55 Game-Changing AI for Faster and Better Well Trajectory Planning Decisions (An Example Using the Volve Dataset) - T. Savels (Brunner Shell Petroleum Company) | 14:55  Data Reconstruction Inversion: an augmented Lagrangian based full-waveform inversion in the time domain - A. Gholami (University of Tehran) | 14:55  Higher-order mass-lumped wave propagators on variable resolution, triangular meshes - A. Olender (Universidade De Sao Paulo) |
| 15:15  Machine-Learning-Assisted Field Development Opportunity Identification Through Streamlined Geological and Engineering Workflows - A. Salehi (Quantum Reservoir Impact) | 15:15 Novel Acquisition Design to Improve Illumination for Velocity Estimation and Imaging, North Sea Case Study - L. Limonta (PGS) | 15:15  Wavefield simulation and absorbing boundary condition of staggered time integration method - Y. Peng (China University of Petroleum(Beijing)) |
| 15:35 Coffee break | 15:35 Coffee break | 15:35 Coffee break |
| 15:55 Experiences with Machine Learning and Deep Learning Algorithms for Seismic, Wells and Seismic-to-Well Applications - H. Jaglan (dGB Earth Sciences) | 15:55  Improved direct envelope inversion and structure-guided perturbation decomposition for salt building - P. Zhang (Jilin University) | 15:55  A domain decomposition approach for fast reduced order solutions in geophysical exploration - D. Modesto (Barcelona Supercomputing Center) |
| 16:15  Missing Log Data Interpolation and Uncertainty Analysis via Deep Learning - L. Yang (China University Of Petroleum (Beijing)) | 16:15  Estimation of Thomsen VTI parameters for seismic imaging using vertical and deviated wells - H. Miyamoto (INPEX Corporation) | 16:15  Optimized acoustic wavefield modelling in transversely isotropic media - Y. Nikonenko (Skolkovo Institute Of Science And Technology) |
| 16:35  Hybrid pattern matching algorithms for automated stratigraphic well correlation and log pattern recognition in Malaysian Basin - A.S. Abdrahman (PETRONAS) | 16:35  3D Microseismic Image-Domain Elastic Velocity Inversion - C. Oren (Colorado School Of Mines) | 16:35  A highly accurate constant-Q viscoelastic wave equation temporal extrapolation scheme - L. Zhang (China University of Petroleum (Beijing)) |
| 16:55 Comparison of popular Generative Adversarial Network flavours for fluvial reservoir modelling - C. Sun (Heriot-Watt University) | 16:55  New processing flow for surface wave dispersion curve inversion of near surface 2-D Vs model - X. Song (University of petroleum of China (beijing)) | 16:55  Numerical simulation of qP wave in TI media with the new acoustic approximation - K. Liang (China University Of Petroleum (East China)) |



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Thursday, 21 October | Oral presentations

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| ROOM 4 | ROOM 5 | ROOM 6 |
|--|--|---|
| Potential Field Methods - Exploration and New Developments | Field Appraisal and Development (Joint EAGE / SPE) | Rock Physics I |
| 08:30 Two-Dimensional Cross-Gradient Joint Inversion of Gravity and Magnetic Data by a Sequential Strategy - M. Tavakoli (Shahrood University Of Technology) | 08:30 Hydrocarbon Field (re-)development in a Bayesian Framework - T. Clemens (OMV E&P) | 08:30 Rock Physics Analysis of Volcanic Lava Flows and Hyaloclastites - P. Avseth (Dig Science) |
| 08:50 An empirical method for the optimal setting of the gravimetric inverse problem - D. Sampietro (Geomatics Research & Development s.r.l.) | 08:50 Field Development Optimization Using Sequential Decisions and Analytics - A.L. Morosov (University Of Stavanger and National IOR Centre of Stavanger) | 08:50 Seismic petrophysics workflow in data-poor environment: a case study for Petrel field (offshore Australia) - K. Koryakova (Ikon Science) |
| 09:10 A Procedure for Quantifying a UAV-borne Magnetometer Vertical Setback Distance - C. Walter (Queen's University) | 09:10 Integrated Assisted History Matching and Forecast Optimisation for More Robust Mature Field Redevelopment - A. Kidd (Rock Flow Dynamics) | 09:10 Acoustic Emission Analysis of Brittle and Ductile Behavior of Rocks at Critical Stresses - A. Rozanov (Saint-Petersburg Mining University) |
| 09:30 MEMS Based 3-C Borehole Gravity Meter Development - G. Yu (BGP Inc. CNPC) | 09:30 Hybrid of PSO and CMA-ES algorithms for joint optimization of well placement and control - A. Kumar (Visage Technology) | 09:30 Monitoring Chemo-Mechanical Fracture Behavior through Engineering Geophysics Experiments - T. Vanorio (Stanford University) |
| 09:50 Coffee break | 09:50 Coffee break | 09:50 Coffee break |
| 10:10 Multiscale potential field modelling and integrated interpretation in the underexplored Northern Red Sea - G. Bancalà (Schlumberger) | 10:10 Exergy Analysis of Steam Drive Recovery with Added Solvents - H. Bruining (Delft University of Technology) | 10:10 The Impact of Pore Aspect Ratio on Elastic Parameters: A Physical Modeling Study - K. Moravej (Memorial University of Newfoundland) |
| 10:30 Utilisation of stochastic MT inversion results to constrain gravity inversion - J. Giraud (Universite de Lorraine) | 10:30 A Hybrid Workflow to Locate Oil Opportunities in Mature Reservoirs - B. Moradi (Three60Energy) | 10:30 THE PREDICTION OF S-WAVE VELOCITY USING GAUSSIAN PROCESS REGRESSION - D. Wang (Xi'an Jiaotong University) |
| 10:50 3-D Gravity Data Sparsity Inversion with Discrete Cosine Transform Compression - Z. Meng (Tianjin Navigation Instrument Research Institute) | 10:50 Experimental evaluation of residual polymer impacts on fluids separation in Colombian field conditions - H. Quintero (Ecopetrol S.A) | |
| 11:10 Petroleum System Evaluation through Potential Field Data Analysis in Frontier Exploration of South Sudan - S. Ratti (Schlumberger) | | |
| 11:30 Coffee break | 11:30 Coffee break | 11:30 Coffee break |
| 11:45 Forum Session 3: Great Career Challenge - the changing education and opportunities for tomorrow's energy professionals - Room 1 | | |
| 12:45 Lunch | 12:45 Lunch | 12:45 Lunch |
| Diffraction Modelling and Imaging | Reservoir Characterization, Surveillance and Management (Joint EAGE / SPE) | Rock Physics II |
| 14:15 Enhanced Full-Azimuth Q-PreSDM Imaging, Onshore Colombia – Resolving Absorption, Leveraging Rich Azimuths and Implementing Diffraction Imaging - E.J. Wiarda (Ecopetrol S.A.) | 14:15 Advances in Cased-Hole Formation Evaluation - The Access to Untapped Tight-Gas Resources in Mature Fields - R. Zambrano (Ukrnaftoburinnya PJSC) | 14:15 Fluid Substitution in Clay-Rich Sandstone at Seismic Frequencies - H. Yin (Ecole Normale Supérieure de Paris) |
| 14:35 Diffraction Imaging in North-Western Poland, A 3D Land Seismic Case Study - T.J. Moser (Moser Geophysical Services) | 14:35 The Application of Petroleum Geochemical Methods to Production Allocation of Commingled Fluids - C. Barrie (Applied Petroleum Technology) | 14:35 The Logical Error in Gassmann Poroelasticity: Derivations and Data - L. Thomsen (University of Houston) |
| 14:55 Diffraction Imaging of Faults, Basement Fractures and Stratigraphy in the Southern Malay Basin - T.J. Moser (Moser Geophysical Services) | 14:55 New LWD Image Improvement Method to Mitigate Interpretation Risks - T. Zhang (Schlumberger) | 14:55 Automatic Rock Physics Model Calibration: Optimisation Via Segmented Averages - K. Gohel (Earth Science Analytics) |
| 15:15 Diffraction Separation and Holistic Migration: High-Resolution Imaging beyond Nyquist - V. Thorkildsen (University Of Oslo) | 15:15 Slim Pulsed Neutron Spectroscopy Lands for the First Time in the Egyptian Western Desert - H. Mokhtar (General Petroleum Company) | 15:15 Rock Physics attributes as potential rock-fluid discriminants for carbonate reservoirs in Central Luconia - R. Jordan Leite (Petronas) |
| 15:35 Coffee break | 15:35 Coffee break | 15:35 Coffee break |
| 15:55 3-D diffraction classification using wavefront attributes: extension to finite offsets - P. Znak (St. Petersburg University) | 15:55 Evaluation of Well Interference and Injection Performance from Analysis of Time-lapse Pressure Transients - G. Namazova (Wintershall Dea) | 15:55 Pore type classification using multi-class classifiers: Application in rock physics modeling - J. Sharifi (Ferdowsi University of Mashhad) |
| 16:15 Diffraction Imaging by Changing the Acquisition Geometry with Marchenko Methods - X. Yue (Previous: Memorial University; Now: Ansteel Beijing Research Institute) | 16:15 Towards More Accurate Phase-Field Modeling of Syntaxial Quartz Cementation in Arenitic Sandstones - N. Prajapati (Karlsruhe Institute Of Technology) | 16:15 Calculating the electrical conductivity of digital rocks based on two-dimensional images - H. Bao (China University Of Petroleum (east China)) |
| 16:35 Practical aspects of the topological analysis of diffraction images for fracture characterization by seismic data - M. Protasov (Trofimuk Institute of Petroleum Geology & Geophysics SB RAS) | 16:35 Best Practices-design for Scale Reduction During Produced Water Reinjection (PWRI) - S.A. Mostafavi (University Of Tehran) | 16:35 Simulation of wave propagation based on the Lord-Shulman thermoelastic theory - W. Hou (China University of Petroleum(east China)) |
| 16:55 A diffraction separation method using variational mode decomposition - P. Lin (China University of Mining & Technology (Beijing)) | | 16:55 Petrophysical Evidences for the Presence of Bornova Flysch Zone in the Gulf of Izmir, Aegean Sea - A. Uyanik (Turkish Petroleum Corporation) |

Technical Programme

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| ROOM 7 | | ROOM 8 | | ROOM 9 | |
|--|---|---|--|--|--|
| Seismic Acquisition & Processing - High Resolution for Shallow Subsurface | | Seismic Acquisition & Processing - Micro and Passive Seismic | | Seismic Processing - Machine Learning | |
| 08:30 |  Active and Passive MASW Analysis of DAS Data from an Active Landslide - S. Cole (OptaSense) | 08:30 |  Trialling Passive Seismic with DAS in CO2CRC Otway Project: Ambient Noise Composition and Prospects for Utilisation - R. Pevzner (Curtin University) | 08:30 |  Building and Understanding Deep Neural Networks Components for Seismic Processing: Lessons Learned - M. Chambeform (CGG) |
| 08:50 |  Distributed Acoustic Sensing for Surface Seismic: Case Study from Mineral Exploration - A. Bona (Curtin University) | 08:50 |  Low Frequency DAS Data Study with Integrated Data Analysis for Monitoring Hydraulic Fracture - M. Ichikawa (JGI, Inc.) | 08:50 |  Compressive sensing with seismic-adapted machine-learned denoiser - N. Kazemi (University of Calgary) |
| 09:10 |  Integrated Near-Surface Characterization, Onshore Colombia - E.J. Wiarda (Ecopetrol S.A.) | 09:10 |  High-resolution time reverse imaging for microseismic event location - P. Yang (University Of Hamburg) | 09:10 |  An efficiency-improved genetic algorithm for enhancing challenging 3D prestack data using nonlinear beamforming - Y. Sun (ARAMCO) |
| 09:30 |  High-resolution processing for shallow targets through imaging of primaries, multiples and near field hydrophones - G. Apeland (Schlumberger) | 09:30 |  Earthquake Waveform Energy Focusing Tomography with Least Squares Moment Tensor Imaging - J. Li (University Of Science And Technology Of China) | 09:30 |  Proposal of the DUnet neural network architecture: Deghosting example and theoretical analysis - H. Peng (Cgg) |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| 10:10 |  Research and Application of the Uphole Constrained Tomographic Static Correction Technology - S. Zhang (Research institute of Petroleum exploration & development-NorthWest(NWGI),PetroChina) | 10:10 |  Efficient Probabilistic Inversion of Induced Earthquake Parameters in 3D Heterogeneous Media - L.O.M. Masfara (Delft University Of Technology) | 10:10 |  Improving robustness of deep neural networks to amplitude pre-processing: Introduction of a "reweighting" layer - P. Jeunesse (CGG) |
| 10:30 |  Utilizing near-field hydrophone data for high-resolution shallow hazard imaging - C. Tyagi (Schlumberger) | 10:30 |  Moment tensor prediction from borehole microseismic data with machine learning - M. Carrizo (TU Delft) | 10:30 |  Generative Adversarial Network For Seismic Data Interpolation - Q. Wei (China University of Petroleum-Beijing) |
| 10:50 |  Case Study: The use of miniaturized seismic sources for reduced environmental impact - A. Crook (OptiSeis Solutions Ltd) | 10:50 |  Fault Reactivation Controlled by Elastic Stress Transfer During Hydraulic Fracturing at Preston New Road, UK - J. Verdon (University of Bristol) | 10:50 |  From Model-Driven to Data-Driven Seismic High-Resolution Processing - X. Jiao (China University Of Petroleum(Beijing)) |
| 11:10 |  A high resolution method of seismic data via joint dictionary learning and sparse representation - Y. Wang (University of Electronic Science and Technology of China) | | | 11:10 |  HQS-HRI-Net: An unrolled deep learning method for seismic high-resolution inversion with an inaccurate wavelet - H. Chen (Xi'an Jiaotong University) |
| | | | | |  Slope Estimation by Convolutional Neural Networks - S. Zu (Chengdu University of Technology) |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 3: Great Career Challenge - the changing education and opportunities for tomorrow's energy professionals - Room 1 | | | | | |
| 12:45 Lunch | | 12:45 Lunch | | 12:45 Lunch | |
| Borehole Seismic Methods | | Seismic Acquisition & Processing - Acquisition Geometries and Hardware II | | Seismic Processing - Signal Processing Methods | |
| 14:15 |  Effects of Cable Deployment Method on DAS VSP Data Quality: Study at CO2CRC Otway in-situ Laboratory - R. Pevzner (Curtin University) | 14:15 |  A Practical Marine-Vibrator System Optimized for Geophysical Applications - T. Elboth (Shearwater) | 14:15 |  Variable depth streamer deghosting using a linear Radon transform with a time domain sparsity constraint - T. Seher (TGS) |
| 14:35 |  Experimental Comparison of Directivity Patterns of Straight and Helically Wound DAS Cables - E. Sidenko (Curtin University) | 14:35 |  Low frequency vibrator transformation - D.K. Reust (Servo Force, LLC) | 14:35 |  Integrated source and receiver deghosting using sparse inversion - J. Cao (Delft University of Technology) |
| 14:55 |  Game-changing technology for low cost, high quality borehole seismic data acquisition - A. Green (Well-SENSE) | 14:55 |  First wide scale field trial of autonomous underwater vehicles seismic programme - C. Tsingas (Saudi Aramco) | 14:55 |  On the stable implementation of the obliquity factor operators for 3D marine processing - N. El Allouche (Schlumberger) |
| 15:15 |  A DAS VSP Pilot Survey for 3D Imaging and 4D Monitoring at the Culzean Field, UKCS - A. Merry (Maersk Oil North Sea UK Ltd) | 15:15 |  3D compressive sensing reconstruction of shot gathers under realistic acquisition constraints - A. Guitton (Total SA) | 15:15 |  VwGradient Picking - An Approach to Resolve the Near-Surface in the Presence of Velocity Inversions - C. Diggins (DUG) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| 15:55 |  Delineating a cased borehole in unconsolidated formations using dipole acoustic data from a nearby borehole - X. Gu (China University of Petroleum (East China)) | 15:55 |  Spatial Resolution Analysis of Prestack Seismic Migration Images in Viscous Media - W. Wei (Chinese Academy of Sciences) | 15:55 |  Datum Reconstruction Based on Virtual Medium - S. Zhang (Research institute of Petroleum exploration & development-NorthWest(NWGI),PetroChina) |
| 16:15 |  Non Traditional Processing of VSP Data with Dase Studies - C. Bednar (Panorama Technologies) | 16:15 |  Land acquisition without data jitter made possible with MEMS sensors - N. Tellier (Sercel) | 16:15 |  Modelling of marine vibrator data - A. Jafargandomi (Shearwater) |
| 16:35 |  High-Frequency Resonances in Borehole Geophones Bias Source Parameters of Induced Seismicity at Preston New Road, UK - J. Holmgren (University Of Bristol) | 16:35 |  Will the new seismic technology shake the geothermal industry? - C. Strobbia (Real Time Seismic) | 16:35 |  Partial Fraction Signal Decomposition and Time-Frequency Representation - B. Ursin (Norwegian University of Science & Technology) |
| 16:55 |  Acquiring and processing seismic with the drill-bit source and wireless geophones in a desert environment - I. Silvestrov (Saudi Aramco) | | | 16:55 |  Seismic event detection on shot gathers with U-net segmentation - P. Zwartjes (Aramco Overseas Company) |
| |  Fundamentals and higher order harmonics separation and integration from vertical seismic profiling (VSP) data - H. Alnasser (Saudi Aramco) | | | |  Improving Vertical Resolution of Non-Stationary Seismic Data by Spectral Modelling in Logarithm Time-Frequency Domain - L. Sun (China University Of Mining & Technology (beijing)) |



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| ROOM 10 | | ROOM 11 | | ROOM 12 | |
|--|--|-----------------------------|---|--|---|
| Seismic Attributes & Interpretation | | Static Geomodels | | Dynamic Reservoir Characterization and Modelling | |
| 08:30 | Accelerating the Seismic Interpretation Workflow using Machine Learning - L. Dyer (Schlumberger) | 08:30 | Entropy-driven particle swarm optimization for reservoir modelling under geological uncertainty – application to a fractured reservoir - B. Steffens (Heriot-Watt University) | 08:30 | A Unified Pore Network Model for Evaluation of Flow Properties from Pore Size Distribution - Y. Yang (Saudi Aramco) |
| 08:50 | Deep Probabilistic Neural Networks for Geoscience - L. Mosser (Earth Analytics AS) | 08:50 | Sketch-Based Reservoir Modelling: Fast Prototyping of Reservoir Models to Explore Interpretation-Based Uncertainty - C. Jacquemyn (Imperial College London) | 08:50 | From Seismic Interpretation to Property Filled Griding using the Relative Geological Model - F. Cubizolle (ELIIS) |
| 09:10 | CO2 Storage Characterisation Driven by Images of a Prior Injection: CO2CRC's Otway Project - M. Aldakheel (Curtin University) | 09:10 | Time-Depth Conversion with Uncertain and/or Incomplete Data - J. Chautru (Geovariances) | 09:10 | Simulation of Viscous Crossflow in Fractured Media by Foam Injection - A. Saeibehrouzi (Coventry University) |
| 09:30 | Interpretation of Geohazards Related to Offshore Salt Karst - A. Laake (Schlumberger) | 09:30 | Hierarchical Workflows for Realistic Facies Modeling: A Case Study - S. Karimi (Baker Hughes) | 09:30 | The importance of capillary forces in oil mobilization from Sandstone cores - P. Aslanidis (University Of Stavanger) |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| 10:10 | Seismic Reservoir Characterization Based on Improved LFCA Technology - D. Zhang (China National Offshore Oil Corporation (cnoc) Ltd Tian Jin Branch) | 10:10 | Implicit 3D Subsurface Structural Modeling by Finite Elements - M. Irakarama (Independent Researcher) | 10:10 | Comparison of permeability for different fracture models in laboratory experiments on hydraulic fracturing - E. Novikova (Sadovsky Institute Of Geospheres Dynamics Of Russian Academy Of Sciences) |
| 10:30 | Neotectonism and Its Effect on Gas Migrating Features in Offshore KG Basin India - A. Shukla (Indian Institute Of Technology Kanpur Uttar Pradesh India) | 10:30 | Reservoir and Seal Characterizations for Composite Common Risk Maps to Support Wells Planning and Optimization - A. Widyanita (PETRONAS Research SDN BHD) | 10:30 | Fractures Reservoir Distribution Modeling using Kriging-Geostatistical Patterns Recognition Analysis - H. Sarkheil (Kharazmi University) |
| | | 10:50 | Sedimentology, Diagenesis and Reservoir Quality of the Bentiu Formation in the Fula Sub-Basin, Muglad Basin, Sudan - Y. Makeen (Jilin University) | 10:50 | The estimation of permeability using grain size distribution and pore space analysis - H. Mikada (Kyoto University) |
| | | 11:10 | Characteristics of Authigenic Minerals in Deep Clastic Rocks and Its Influence on Reservoir Physical Property - Y. Guo (CNOOC China Limited, Tianjin Branch) | 11:10 | Hydrothermal Fluid-Rock Experiments and Geochemical Modeling of Illite Forming Processes in a Paleozoic Sandstone, Middle East - P. Birkle (Saudi Aramco) |
| | | | Leveraging Machine Learning for Enhanced Geostatistical Modelling of Reservoir Properties - C. Daly (Schlumberger) | | Numerical Simulation of Multiscale Fracture Network Two-Phase Flow Based on Finite Volume Method - C. Tang (Chengdu University Of Technology) |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 3: Great Career Challenge - the changing education and opportunities for tomorrow's energy professionals - Room 1 | | | | | |
| 12:45 | Lunch | 12:45 | Lunch | 12:45 | Lunch |
| Geophysical Characterization for Mineral Exploration and Mining | | Regional Structural Geology | | Flow Simulation | |
| 14:15 | Integrated Geophysical Study for Landfill Mining: A Case Study in Denmark - A. Sandrin (Geological Survey Of Denmark And Greenland) | 14:15 | Assessing preferential orientations of fracture reactivation by iterative-statistical stress inversion from earthquakes in Taranaki, New Zealand - M. Valcarcel Rodriguez (Petroleum Experts) | 14:15 | Challenge Solutions for a Significant Water Cut Reduction History Match on Heavy Oil Polymer EOR - S. Namie (Und) |
| 14:35 | Enhancement of Automatic Signal Classification by Data Augmentation from Collapsed Mine - W. Choi (Inha University) | 14:35 | Tie between MCS and Drilling Data on the Laptev Sea Coast and on the Lomonosov Ridge - V. Savin (Research Institute for Geology and Mineral Resources of the Ocean) | 14:35 | Enhanced Oil Recovery from Polygonal Pores: effects of contact angle - A. Davarpanah (Aberystwyth University) |
| 14:55 | Role of advanced geophysical processing in searching for the next giant Gold-Copper deposit in North Sumatra - H. Gibson (Intrepid Geophysics) | 14:55 | Eastern Black Sea Foreland Basin Architectures and Play Concepts - A. Intawong (TGS) | 14:55 | Deep Learning Reservoir Parameters Prediction using Bidirectional Long Short-Term Memory Network - L. Yang (China University Of Petroleum (Beijing)) |
| 15:15 | Cover mapping using ambient noise surface wave tomography - A. Lavoué (Sisprobe) | 15:15 | Structural/Sedimentological Interactions in the Laurentian Deep Water Basin and South Whale Sub-basin, Offshore East Canada - D. Little (TGS) | 15:15 | PIMPS3D2P: A Practical, Efficient, Three-Dimensional, Two-Phase Reservoir Simulator Written in MATLAB - A. Michael (Cypriana Petroleum Technology, LLC) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| | | 15:55 | Seismic stratigraphy and structural analysis of the pre-salt of Santos Basin and implications on basin evolution - N. Mattos (Universidade Estadual de Campinas) | 15:55 | Reduced order reservoir modeling with MRST: basis reduction control using an image similarity metric - E. Kuznetsova (Skolkovo Institute of Science and Technology) |
| | | 16:15 | Surface and Subsurface Integration for the Mesozoic Rifting in the Eastern Cordillera, Colombia - M. Reyes Correa (Georg-August-Universität Göttingen) | 16:15 | Adaptive reservoir model based on POD-Galerkin ROM - D. Voloskov (Skolkovo Institute Of Science And Technology) |
| | | | | 16:35 | Comparison of a Double-Scale Method and the PEBI Grid Method in Near-Well Flows Simulation - N. Salmani (Engineering Support & Technology Development Company) |
| | | | | 16:55 | Implementation of PC-SAFT Equation of State into MRST Compositional for Modelling of Asphaltene Precipitation - M. Masoudi (University Of Oslo) |
| | | | | | Optimization of Two Simultaneous Water and Gas Injection Scenarios in a High GOR Iranian Oil Field - A. Izadpanahi (Persian gulf university) |

Technical Programme

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| ROOM 13 | | ROOM 14 | | ROOM 15 | |
|--|---|---|---|---|---|
| Unconventional HCs - Reservoir Characterization and Production Case Studies | | Characterization and Monitoring of Subsurface CO2 Storage | | Well Performance and Optimisation (SPE) | |
| 08:30 | Experimental Features for Cation Exchange Capacity Determination for Organic-Rich Mudstones - E. Kazak (Lomonosov Moscow State University) | 08:30 |  Experimental Study on the Effect of Supercritical CO2 on Shaly Caprocks - P. Hadian (Curtin University) | 08:30 |  Overcoming Challenges of Mechanical Lifting Capabilities on Offshore Installation by Utilizing Coiled Tubing Boat Spooling Technique - S. Dinger (Schlumberger) |
| 08:50 |  New insight into experimental quantification of dew point pressure under confinement effects in unconventional reservoirs - H. Doryani Daryuni (Heriot Watt University) | 08:50 |  Geochemical modeling of CO2-brine gabbro-diorite interaction for in-situ mineral carbonation. - H. Abdoulghafour (University Of Evora) | 08:50 |  Experimental Investigation of Oil/Water Emulsion Rheology in Electric Submersible Pump - M. Ridlah (The University of Tulsa) |
| 09:10 | An Energy-Based Brittleness Index Introduction and Application for Unconventional Shale Reservoir: A Case Study - A. Kolomytsev (Gazprom Neft) | 09:10 |  Importance of Continuous Monitoring: Case Study of Shallow CO2 Injection at the CSIRO in-situ Laboratory Site - K. Tertyshnikov (Curtin University of Technology) | 09:10 |  Investigation of Well Control Parameterization with Reduced Number of Variables Under Reservoir Uncertainties - D. Santos (University of Campinas) |
| 09:30 |  Coalbed Methane Enrichment Rule and Sweet Spot Optimization-Case Study From Australia North Bowen Basin - M. Li (RIPED PetroChina) | 09:30 |  Resource maturity and sensitivity analysis of CO2 storage capacity in the Lusitanian basin, Portugal - P. Pereira (ICT - Universidade de Évora) | 09:30 |  Real-time EM Look-ahead Resistivity Mapping of Oil Water Contact While Drilling at Low Deviated Well - N. Al-Khalifa (Kuwait Oil Company) |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| 10:10 | Modelling of CO2-ECBM displacement from Jhariala coalfield, India - M. Asif (Indian Institute of Technology (ISM), Dhanbad) | 10:10 |  Application of time-lapse acoustic FWI to cross-well seismic monitoring data sets in a CCS field - M. Ichikawa (JGI, Inc.) | 10:10 |  Innovative Method to Optimize Down Hole Control Valves by Well Modeling - A. Albarghouti (Saudi Aramco) |
| 10:30 |  Evaluation of the Unconventional Gas Potential of Diyab in West UAE and Exploration Effectiveness - D. Xiao (BGP) | 10:30 | Pore-Scale Study of the Residual Trapping of Air in a Doddington Sandstone Using In-Situ Micro-CT Imaging - P. Bakhshi (Heriot-Watt University) | 10:30 |  An Integrated IR4.0 Software Enables Autonomous Casing Crossflow Rate Calculation - A. Albarghouti (Saudi Aramco) |
| 10:50 | Quaternary and Neogene Reservoirs of the Norwegian Continental Shelf: Evidence from New 3D Seismic Data - B. Bellwald (Volcanic Basin Petroleum Research (VBPR) AS) | 10:50 |  Pore-Scale Simulations of Residual Trapping in Homogeneous and Heterogeneous Porous Media - R. Nhunduru (Heriot-watt University) | 10:50 |  Development of a Gas Flow Rate Model for Multi-stage Choke System in HPHT Gas Wells - A. Alghamdi (Saudi Aramco) |
| 11:10 |  Integration of mechanical stratigraphy with lithofacies in Goldwyer shale for selecting producible and hydraulic fracturing layers - M.A. Iqbal (Curtin University) | | | | |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 3: Great Career Challenge - the changing education and opportunities for tomorrow's energy professionals - Room 1 | | | | | |
| 12:45 | Lunch | 12:45 | Lunch | 12:45 | Lunch |
| Subsalt/Basalt Imaging and Tight Formation Challenges | | Subsurface Characterization for CO2 and Waste Storage | | Unconventional Reservoirs (SPE) | |
| 14:15 |  Overpressure Transmission through Igneous Intrusions: An Unrecognized Drilling Hazard in Volcanic Affected Basins? - N. Schofield (University of Aberdeen) | 14:15 |  Distribution of Faulted Mesozoic and Tertiary Seals for CCS in the Horda Platform, Northern North Sea - J. Osmond (University of Oslo) | 14:15 | Unified Assessment of Unconventional Resource Plays: Implications for Global Exploration and Development - T. Grover (Equinor) |
| 14:35 |  Intra-volcanic multiple scattering: using simulated wavefields to better understand the challenge at Blackrock, West of Shetlands - H. Poore (Siccar Point Energy Ltd.) | 14:35 | Effect of Mineral Heterogeneity on Fracture Dissolution in Carbonate-Rich Caprocks During Subsurface CO2 Injection - M. Nooraiepour (University Of Oslo) | 14:35 | Thermal Effects on Far-Field Distributed Acoustic Strain-Rate Sensors - D. Zhu (Texas A&M University) |
| 14:55 | Renewed Salt Body Interpretation with Improved Salt Flank Imaging Offshore Mexico - K. Rodriguez (Searcher) | 14:55 | CCS Monitoring by Inversion of Reservoir Pressure and Saturation Changes from Timelapse AVO Differences and Time-Shifts - S. Carpentier (TNO) | 14:55 |  Geomechanically Driven Casing Deformation During Multistage Perf and Plug Fracturing Operations: Investigation and Mitigation - R. Gomez Barker (Baker Hughes) |
| 15:15 |  Fine Characterization of Volcanic Rock Morphology by Walkaway VSP Technique - B. Du (NW-Research Institute of Petroleum E&D, PetroChina) | 15:15 | Integrated Caprock Characterization to Reduce the Uncertainty in the Geomechanical Model of Underground Storage - H. Boro (SGS) | 15:15 |  Refracturing Activities in the United States — How Much Do We Know So Far? - F. Shamman (Missouri University of Science and Technology) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| 15:55 | Overtuned Salt Roof Flaps in the Dnieper-Donets Basin – Hiding a New Giant? - O. Petrovskyy (DEPROIL) | 15:55 | Testing CO2 compatibility of a glauconitic reservoir: Case study from depleted Nini Field, Danish North Sea - S. Mohammadkhani (GEUS) | 15:55 |  Aqueous Solution Of Ketone For Enhanced Water Imbibition In Shale Reservoirs - M. Wang (The University Of Texas At Austin) |
| 16:15 |  Method for Classification of Tight Sandstone Reservoir Based on NMR Logging - H. Wei (China University of Petroleum) | 16:15 |  A fill-and-spill CCS mega-fairway in the Southern North Sea: a new concept to optimise CO2 storage - A. Green (IGI Ltd.) | 16:15 |  The Key Factors of Low-frequency Electric Heating Assisted Depressurization Method - E. Zhao (China University of Petroleum (East China)) |
| 16:35 | Diffraction wave separation and imaging with deep learning network: application of GPR data - M. Ma (Chang'an University) | 16:35 | The Critical Role of Geophysical Simulations in Enhanced Carbon Storage - A. Goertz (Octio) | 16:35 |  Optimization Approach for Determination of the Dosage of Diversion Agents in Temporarily Plugging Fracturing of Shale - M. Wang (Research Institute Of Petroleum Exploration And Development, Petrochina) |
| 16:55 |  Volcanic structure underneath Benue Trough (Nigeria) derived from high-resolution airborne gravity data using horizontal tilt angle - M. Abdullahi (Modibbo Adama University) | 16:55 |  Time-Lapse Topography Inversion from Gas-Plume Monitoring - J. Gunning (CSIRO Energy) | | |



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Thursday, 21 October | Oral presentations

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| ROOM 16 | ROOM 20 |
|---|--|
| Petroleum Systems of NW Europe 2 (Dedicated Session) | IOR/EOR II (SPE) |
| 08:30 East Greenland as an Analogue and Source to the Jurassic and Cretaceous Petroleum Systems of Mid-Norway - A. Szulc (Casp) | 08:30 Monitoring Polymer Flooding Performance Using Inflow Tracer Technology in Horizontal Injection and Production Wells - A. Janczak (OMV) |
| 08:50 Sorry to Intrude, but Is It Time to Checkout of the "Motel Theory" in the Faroe-Shetland? - D. Gardiner (IGI Ltd.) | 08:50 Horizontal Versus Vertical Wells: Assessment of Sweep Efficiency in a Multi-layered Reservoir - B. Davidescu (OMV Austria) |
| 09:10 Oil-Oil Correlation and Filling Modes of the Valhall Field in the Central Graben, North Sea - J. Rinna (AkerBP) | 09:10 The Use of Controlled Dissolution Glass for the Consolidation of a High Porosity Chalk - R. Hatlebakk (Vitritech) |
| 09:30 Regional Basin Modelling as Input to Play Based Exploration in the Dutch Offshore - L. Janssen (EBN) | 09:30 Numerical Simulations of Surfactant Flooding in Carbonate Reservoirs - J. Pola (Heriot-Watt University) |
| 09:50 Coffee break | 09:50 Coffee break |
| Modified Salinity Water Flooding in Carbonate Reservoirs 2 (Dedicated session) | |
| 10:10 Effect of Wettability on Oil Recovery in Chalk - S. Strand (University of Stavanger) | 10:10 Successful Development and Deployment of a Novel Chemical Package for Stimulation of Injection Wells - D.A. Alexis (Chevron USA Inc) |
| 10:30 Scale-Dependent Models for Modified Salinity Waterflooding - S. Hosseinzadehsadati (Technical University of Denmark) | 10:30 From Biomedical to Oil Industry: Promising Mesoporous Materials for Oil Field Applications - A. Alsmail (Cornell University) |
| 10:50 Numerical Analysis of Forced and Spontaneous Imbibition of Modified-Salinity Water in Chalk - A.A. Eftekhari (Technical University of Denmark) | 10:50 Experimental Design and Evaluation of Surfactant Polymer for a Heavy Oil Field - D. Rousseau (IFP Energies nouvelles) |
| | Effects of Non-Newtonian Fluid Characteristics on Flow Dynamics in Polymer Flooding: A Lattice Boltzmann Study - B. Wei (China University of Petroleum (East China)) |
| | Study on Formulation with Lower Initial Viscosity Gel/Alkali/Surfactant/Polymer - Q. Gao (Exploration And Development Research Institute Of Daqing Oilfield Company Ltd.,cnpc) |
| 11:30 Coffee break | 11:30 Coffee break |
| 11:45 Forum Session 3: Great Career Challenge - the changing education and opportunities for tomorrow's energy professionals - Room 1 | |
| 12:45 Lunch | 12:45 Lunch |
| Depositional Processes and Stratigraphic Modelling (Dedicated Session) | IOR/EOR III (SPE) |
| 14:15 Forward Modelling of Sedimentary Processes for Reservoir Issues: A Multi-Scale Issue - G. Massonnat (Total) | 14:15 Modelling and Upscaling Unstable Miscible Displacement Processes: Characterisation of Physical Instabilities - P. Ogbeivi (Heriot-Watt University) |
| 14:35 Sensitivity Analysis of the Amplitude of Early Cretaceous Eustatic Changes Using Forward Stratigraphic Modelling (Resolution Guyot) - M.M.S. Desouky Nourlyamani (Imperial College London, Carbonate Research Group) | 14:35 An Experimental Study of Steam-Solvent Coinjection for Bitumen Recovery Using a Large-Scale Physical Model - R. Okuno (University of Texas at Austin) |
| 14:55 Reproducing Sedimentary Processes and Architecture in Turbidite Deposits with Forward Stratigraphic Modeling - S. Courtade (Schlumberger) | 14:55 Advanced Fracturing Design Simulator-Assisted Modeling Coupled with Application of Enhanced Stimulation Fluids Raises Performance - R. Kalabayev (Schlumberger) |
| 15:15 Six Years Exploring Offshore Newfoundland and Labrador: Insight from Forward Stratigraphic Modeling to Petroleum System Assessment - P. Jermannaud (Beicip-Franlab) | 15:15 Design of Optimal Operational Parameters for Steam-alternating-solvent Processes in Heterogeneous Reservoirs - I. Mayo Molina (University Of Alberta) |
| 15:35 Coffee break | 15:35 Coffee break |
| 15:55 Stratigraphic Forward Modelling Applied to Reservoir Characterisation of Pre-Salt Carbonate Reservoirs, Santos Basin, Brazil - A.C. Sartorato (Petrobras) | 16:15 Characterization of Fluid Drainage Mechanism at Core and Pore Scales - A. Isah (King Fahd University of Petroleum & Minerals) |
| 16:15 Benefits of Forward Stratigraphic Modelling in Geostatistical Reservoir Characterization - A. Fourmillon (Beicip-Franlab) | 16:35 Comparative Evaluation of Gas-Condensate Enhanced Recovery Methods for Deep Ukrainian Reservoirs: Synthetic Case Study - O. Burachok (Ivano-Frankivsk National Technical University of Oil and Gas) |
| 16:35 Carbonate Ocean: A High-Fidelity Process-Based Sediment Model Suitable for Reservoir Management Application - M. Frazer (Chevron Energy Technology Company) | 16:55 Sharpening a Cyclic Solvent Injection Technique in a Heavy Oil Reservoir - A. Solano (Mansarovar Energy) |

Technical Programme

Thursday, 21 October | ePoster presentations

 This presentation is pre-recorded

| EPOSTER A | | EPOSTER B | | EPOSTER C | |
|---|--|---|---|--|--|
| ePoster: FWI and Velocity Analysis | | ePoster: Seismic Interpretation - Feasibility Studies | | ePoster: Seismic Attributes and Fault Interpretation | |
| 08:30 | Full waveform inversion with a convolution coding-based adaptive data identification - Y. Yin (Jilin University) | 08:30 | Research on the attributes of attenuation gradient hydrocarbon detection and its application in Bohai Oilfield - G. Liu (CNOOC China Limited, Tianjin Branch) | 08:30 | Fault identification in the bedrock weathering crust by the spectral decomposition based on matching pursuit - R. He (Research Institute Of Petroleum Exploration & Development-Northwest(NWGI), Petrochina) |
| 08:50 | Approximate Langevin Monte Carlo with Adaptation for Bayesian Full-waveform Inversion - M. Izzatullah (King Abdullah University of Science and Technology) | 08:50 | Acoustic impedance contrast inversion with multiplicative regularization - K. Guo (China University of Petroleum-Beijing) | 08:50 | Seismic fault interpretation by using a multi-scale coherence attribute - N. Liu (Xi'an Jiaotong University) |
| 09:10 | Incorporating acquisition geometry in deep learning-based full waveform inversion - M. Saadat (Institute Of Geophysics Of Tehran University) | 09:10 | A Novel Nonlinear Joint AVA Inversion Method for Russell Fluid Factor - L. Zhou (Hunan University of Science and Technology) | 09:10 | First Operational A.I. Fault Interpretation Study Performed at Total - P. Goutorbe (Total) |
| 09:30 | Velocity and Q estimation from the separated upgoing and downgoing wavefields in VSP data - C. Jin (Khalifa University) | 09:30 | Use of classification technique to characterize porous carbonate reservoir in Machukhy field, onshore Ukraine - N. De Freslon (Beicip-Franlab) | 09:30 | Automatic extraction of horizons through faults - J. Li (China University Of Petroleum (beijing)) |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| 10:10 | A Velocity Model Building Method in the Igneous Rock Based on Facies-controlled Inversion - W. Jia (BGP Inc. CNPC) | 10:10 | Post-Stack Inversion with Uncertainty Estimation through Bayesian Deep Image Prior - F. Picetti (Politecnico di Milano) | 10:10 | Research and Application of the Efficient Reflection Coefficient Inversion Method via Toeplitz-Sparse Matrix Factorization - Q. Wang (CNOOC Research Institute Co., Ltd.) |
| 10:30 | Enhanced constrained velocity inversion - A. Tertois (Emerson) | 10:30 | Case of Study: Quantitative Seismic Interpretation for Mapping Carbonate Reservoir Facies in Pre-Salt Province of Brazil - A.P. Santana (University of Cambridge) | 10:30 | Seismic Quality Factor Estimation with a Simulated Annealing Approach: A Practical Example of the Sichuan Basin - J. Gui (PetroChina Research Institute of Expl. & Developm.) |
| 10:50 | A Pre-stack inversion method based on Bayesian Parameter Relation Constrained - X. Cui (China University of Petroleum) | 10:50 | Lithofacies prediction based on a stochastic simulation method - J. Li (Sinopec Geophysical Research Institute) | 10:50 | Investigating the effect of increasing number of angle stacks seismic toward improving seismic inversion prediction - M.I. Ahmad Fuad (PETRONAS RESEARCH SDN BHD) |
| 11:10 | Vector Wave Velocity Tomography Based on Horizon Constraints - H. Li (China University Of Petroleum (east China)) | | | 11:10 | Interval velocity determination by using stratigraphic emphasis for pore pressure prediction - R. Negrete Cadena (National Autonomous University of Mexico) |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 3: Great Career Challenge - the changing education and opportunities for tomorrow's energy professionals - Room 1 | | | | | |
| 12:45 | Lunch | 12:45 | Lunch | 12:45 | Lunch |
| ePoster: Imaging Approaches and Imaging with Neural Networks | | ePoster: Seismic Interpretation - Statistical Methods | | ePoster: Seismic Attributes & Interpretation | |
| 14:15 | Anisotropic parameter modeling based on BP neural network - S. Zhang (China University Of Petroleum (east China)) | 14:15 | Frequency-Dependent Inversion Using Spherical-Wave Reflection Coefficient with Critical and Post-Critical Offsets - B. Yan (China University of Petroleum) | 14:15 | Stratigraphical nature and Palaeogeographical significance of the Top Albian surface in the South Cameroon Atlantic Margin. - M.E. Mike-Franck (University Of Yaounde I) |
| 14:35 | Least-Squares Migration with Deep Learning Based Structural Constraints - Y. He (TGS) | 14:35 | Nonlinear amplitude inversion using the exact Zoeppritz equation and Hybrid Quantum Genetic algorithm - J.W. Cheng (China University of Petroleum-Beijing) | 14:35 | Dispersion Imaged Field with No Amplitude DHI - S. Peters (Apex Spectral Technology, Inc.) |
| 14:55 | Anisotropic parameter modeling based on deep residual network - S. Zhang (China University Of Petroleum (east China)) | 14:55 | Joint Bayesian stochastic AVA inversion of well-log and seismic data for facies estimation - Y. Luo (BGP, CNPC) | 14:55 | Application of Self- Facies-Control inversion in complex deep-water turbidite reservoir prediction - Z. Wang (CNOOC Research Institute Co., Ltd.) |
| 15:15 | Encoded reverse time migration with random plane-wave segments - C. Tang (TGS) | 15:15 | Acoustic Impedance Inversion Based on Transfer Learning Combined with Convolutional Neural Network and Residual Network - J. Meng (China University Of Petroleum (beijing)) | 15:15 | Uncovering 3D Fracture Zones and Faults via Enhanced Network Tortuosity Decomposition: Concept and Methodology - C.T. Ang (PETRONAS Research Sdn. Bhd.) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| 15:55 | Huber inversion-based reverse-time migration with de-primary imaging condition and sparse constraint in curvelet domain - B. Wu (China University Of Petroleum (beijing)) | 15:55 | Virtual well-logging curves construction using a genetic algorithm and its application to reservoir inversion - J. Sun (China University Of Petroleum (east China)) | 15:55 | Application of quantitative fracture prediction based on indicator factor in engineering fracturing - G. Wang (BGP,CNPC) |
| 16:15 | Elastic Least-Squares Reverse Time Migration in the Rugged Seabed Structure - Y. Qu (China University Of Petroleum (East China)) | 16:15 | Seismic Stochastic Inversion Constrained by Multiple-Point Patterns - Y. Cao (China University Of Petroleum,Beijing) | 16:15 | Seismic depositional sequence characterization based on enhanced Multi-channel variational mode decomposition - Y. Tian (Xi'an Jiaotong University) |
| 16:35 | Source wavefield reconstruction using the Remez exchange algorithm for reverse time migration - Z. Ren (Chang an University) | 16:35 | Prestack Inversion Based on Bayesian Theory in Ray Parameter Domain and Its Application in Hydrocarbon Detection - D.J. Hou (Cnooc) | 16:35 | An attribute-guided method for reservoir parameter prediction using relevance vector machine - J.W. Cheng (China University of Petroleum-Beijing) |
| 16:55 | 3D Encoding Least-squares Reverse Time Migration in Curvilinear- τ Domain Based on Student's t Distribution - H. Chongpeng (China University Of Petroleum (east China)) | 16:55 | Integration of Seismic Stratigraphy and Core Data to Determine Evolution of Mud Bank: A Case Study - A. Al-Ali (Heriot-Watt University) | | |
| | 2.5D Multi-Focusing Imaging of Crooked-Line Seismic Surveys - H. Jodeiri Akbari Fam (Laurentian University) | | | | |



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Thursday, 21 October | ePoster presentations

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| EPOSTER D | | EPOSTER E | | EPOSTER F | |
|--|--|---|--|---|---|
| ePoster: Seismic Acquisition & Processing - Acquisition Geometries and Hardware | | ePoster: Seismic Processing - Signal Processing Methods I | | ePoster: Source Rocks | |
| 08:30 | Automated Real Time Path Planning for Land Seismic Survey Field Design - M. Caporal (Delft University of Technology) | 08:30 | Structurally Constrained Multitrace Sparse Inversion - S. Zhang (China University of Petroleum(Beijing)) | 08:30 | Organic Geochemistry and Hydrocarbon Generating Potential of the Miocene Bongaya Formation in the Onshore Pitas Sabah - N.A.F. Md Nor Azam (University of Malaya) |
| 08:50 | Minimum-Phase Sweep Signal for Phase Controlled Vibroseis Acquisition - I. Korotkov (SGDS Ltd.) | 08:50 | Synchroextracting S Transform and Its Application in Seismic Time-Frequency Analysis - Q. Wang (Hubei University of Art and Science) | 08:50 | High-Quality Source Rock Thickness Prediction of Xujiahe Formation in the Western-Central Transition Zone of Sichuan Basin - J. Yao (PetroChina Research Institute of Expl. & Developm.) |
| 09:10 | Convertible Geometry Studies - Y. Liu (Bgp,cnpc) | 09:10 | 3D High Order De-Aliased Radon Transform for AVO-Preserving Data Reconstruction - W. Geng (China University Of Petroleum(Beijing)) | | |
| 09:30 | Compressive sensing design of receiver carpets under field constraints - P. Roche (OPERA (ADERA)) | 09:30 | Noise-Tolerant Sparse Spike Deconvolution Based on Convolutional Phase Retrieval - F. Bayati (University Of Calgary) | | |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| | | | | ePoster: Lithology, Facies and Evolution of Clastic Depositional Systems | |
| 10:10 | Lightweight land nodal system: acquisition and processing insights from the Permian Basin, West Texas. - G. Busanello (Schlumberger) | 10:10 | Wigner-Ville Distribution with a Mask Filter - H. Al Salmi (Imperial College London) | 10:10 | Depositional Characteristics of Shallow Water Delta in Large Depression Lake Basin and Control of Reservoir Distribution - Z. Bai (Exploration And Development Research Institute Of Daqing Oilfield Company Ltd) |
| 10:30 | Design of optimal sensor layouts for measuring particle motion data - A.K. Ozdemir (Schlumberger) | 10:30 | Wavelet-Based Coherency Functional for Velocity Analysis of Seismic Reflection Data - A. Tognarelli (University of Pisa) | 10:30 | Biostratigraphy and Paleogeography of the Miocene-Oligocene Deposits, South-Eastern Edging of the Greater Caucasus - M. Afandiyeva (Oil & Gas Institute) |
| 10:50 | Acquisition geometry analysis when using multiples for imaging - B. Revelo (Delft University Of Technology) | 10:50 | The Application of High Frequency Bright Spot Based on T-K Energy Wavelet Transform in Hydrocarbon Detection - D.J. Hou (Cnooc) | 10:50 | Sedimentary Stratigraphic and Alaeoenvironmental Evolution of the Northern Outer Shelf of East China Sea since MIS6 - S. Chen (Qingdao Institute Of Marine Geology) |
| | | 11:10 | The Application of Compensation Method Based on Wavelet Frequency Division in Middle-Deep Layer of East Sea - X. Wang (Qingdao Institute Of Marine Geology) | 11:10 | Automatic facies interpretation as a basis for the transition to digital sedimentology - M. Tugarova (Gazpromneft Science and Technology Center) |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 3: Great Career Challenge - the changing education and opportunities for tomorrow's energy professionals - Room 1 | | | | | |
| 12:45 Lunch | | 12:45 Lunch | | 12:45 Lunch | |
| ePoster: Potential Field Methods - Case Studies and New Developments "Mix" | | ePoster: Seismic Processing - Signal Processing Methods II | | ePoster: Petrophysics - Coring, Core Descriptions & Interpretation | |
| 14:15 | Interpretation of Gravity Gradiometry Data from Bonaparte Basin and Halls Creek Orogen, Northern Australia. - M. Zengerer (Gondwana Geoscience) | 14:15 | Nonparametric estimation method for array acoustic dispersion information - X. Zhou (China University Of Petroleum (beijing)) | 14:15 | Predict Formation Water Salinity of Ultra-Low Permeability Reservoirs with Complex Wettability Based on Adjacent Mudstone Information - C. Feng (China University of Petroleum-Beijing at Karamay) |
| 14:35 | Combining Edge Enhancement Images for More Reliable Detection of Magnetic Features: A Python implementation - V. Ribeiro (CSIRO) | 14:35 | Well-Controlled Seismic Resolution Improvement: A Machine Learning Approach - Y. Gao (China University of Petroleum-Beijing) | 14:35 | Research on Lithology Identification Method of Unconventional Reservoir Based on Optimized KNN Algorithm - C. Xu (China University Of Petroleum (beijing)) |
| 14:55 | Integrated Potential Field Methods – West Siberian Reservoir Complex Case Study - A. Volkova (Tomsk Polytechnic University) | 14:55 | Application of tomographic static correction technology constrained by micro logging in 3D splicing processing - M. Li (Petrochina Changqing Oilfield Company) | 14:55 | CNN-based Logging Lithology Identification Technique and Its Application - W. Xiong (BGP,CNPC) |
| 15:15 | Multi-method pore space analysis of the Portland sandstone - B. Mehalli (Saint Petersburg State University) | 15:15 | Improved Signal to Noise Ratio Estimation Based on Edge-Preserving Method - Y. Zhang (China University Of Petroleum (Beijing)) | 15:15 | New parameter for estimating water saturation and permeability of carbonatite - S. Chen (China University of Petroleum - Beijing) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| 15:55 | Basement relief estimation through a two-parameters gravity inversion - F. Golfre' Andreasi (Schlumberger) | 15:55 | Prestack Data Enhancement with Phase Substitution and Phase Corrections Guided by Local Multidimensional Stacking - A. Bakulin (Saudi Aramco) | 15:55 | Permeability of Porous Limestones Under a Wide Range of in situ Conditions - P. Baud (University of Strasbourg (EOST)) |
| 16:15 | The role of model weighting functions in the gravity and DC resistivity inversion - M. Fedi (University of Naples Federico II) | 16:15 | Mixed Phase Seismic Wavelet Estimation Using the Bispectrum - M. Bekara (PGS) | 16:15 | Automated Carbonate Reservoir Pore and Fracture Classification by Multiscale Imaging and Deep Learning - J. Klaver (MaP – Microstructure and Pores GmbH) |
| 16:35 | Sediment Cover Structure in the East Siberian Sea Shelf–Podvodnikov Basin Transition Zone (Arctic Ocean) - A. Piskarev (VNIIOkeangeologia named after I.S. Gramberg) | | | 16:35 | 2D digital image segmentation techniques to characterize the porosity of carbonate rocks in Brazilian pre-salt - A. Gonzalez (North Fluminense State University (UENF)) |
| 16:55 | Multiphysics and Multidisciplinary Integration Unravels Kirthar Fold Belt Structural Complexity - A. Battaglini (Schlumberger) | | | 16:55 | An intellectual system for fast and reliable automated core description development - E. Baraboshkin (Digital Petroleum) |
| | | | | | A New Method for Predicting Oil Saturation of Tight Conglomerate Reservoirs via Nuclear Magnetic Resonance Logs - C. Feng (China University of Petroleum-Beijing at Karamay) |

Technical Programme

Thursday, 21 October | ePoster presentations

 This presentation is pre-recorded

| EPOSTER G | | EPOSTER H | | EPOSTER I | |
|--|---|-------------------------------------|--|--|--|
| ePoster: Production & Management - EOR/IOR I | | ePoster: Exploration - Case Studies | | ePoster: Time-Lapse Interpretation and Value | |
| 08:30 |  Effect of Dip Angle on Recovery Factor During Free Fall Gravity Drainage and Forced Gravity Drainage - M. Hasanzadeh (Persian Gulf University) | 08:30 |  A Enhanced Method Utilizing PGNAA for Evaluating Hydraulic Fracturing in Unconventional Reservoirs - Q. Chen (China University of Petroleum) | 08:30 |  Repeatability Analysis of Time-Lapse Vertical Seismic Profiling Data Acquired Using Distributed Acoustic Sensing: Harvey, South-West Hub - S. Yavuz (Curtin University, Exploration Geophysics) |
| 08:50 |  Direct Insight to the Effect of Gel Movement During High-Saline Waterflooding in Micromodel at High Temperature - Z. Ghaffari (Sahand University Of Technology) | 08:50 |  Application of 2W1H Seismic Data in Deep Reservoir Prediction - J. Gui (PetroChina Research Institute of Expl. & Developm.) | 08:50 |  4D Time-Lapse Full Waveform Inversion Case Study for SAGD Steam Chamber Imaging - H. Feng (Cenovus Energy Inc.) |
| 09:10 |  Dynamic Investigation of Silicate Preformed Particle Gels (SPPGs) Using transparent fracture model (Hele-Shaw Cell) and Simulator - A. Paprouski (Sharif University of Technology) | 09:10 |  Study of Typical Strike-Slip Fault and Their Influence on Reservoir and Hydrocarbon Enrichment in Tazhong Area - L. Bo (Tarim Oilfield) | 09:10 |  Time-Lapse Monitoring of Variation of Pore Fluids Distribution and Reservoir Properties Using FWI in Foam-Assisted EOR - H. Mikada (Kyoto University) |
| 09:30 |  Effect of Wettability Alteration in Chemical Enhanced Imbibition Using Surfactants with Different IFT Magnitudes for Carbonates - Z. Qi (Aramco Beijing Research Center) | 09:30 |  Improved Workflow for Identifying Fault Controlled Fractured-vuggy Body Sweets of Ultra Deep Tight Limestone - X. Li (China University of Petroleum-Beijing) | 09:30 |  Exploring Value in Pre-Stack Time-Shifts with Ekofisk PRM Data - S. Izadian (Heriot-Watt University) |
| | | | |  Joint PP-PS Time-Lapse Difference Inversion Based on Improved Blocky Constraint - W. Tang (China University of Petroleum(Beijing)) | |
| 09:50 | Coffee break | 09:50 | Coffee break | 09:50 | Coffee break |
| | | | | ePoster: Maximising Value from Producing Fields | |
| 10:10 |  The Utility of HLD/NAC to Guide Surfactant Selection and Design - A. Alsofi (Saudi Aramco) | 10:10 |  Research on joint identification of basement faults by Gravity, Magnetic and Seismic technologies in Sichuan Basin - Y. Zhong (BGP, CNPC) | 10:10 |  New Look at Abandoned Gas Reservoir: Case Study Pannonian Basin - A. Gogic (NTC NIS - Naftagas LLC Novi Sad) |
| 10:30 |  Material Balance Equation of Foamy Extra-Heavy Oil Reservoirs - Z. Yang (Petrochina Research Institute Of Petroleum Exploration And Development) | 10:30 |  A two-step method for prediction of fractured tight sandstone reservoir in northeast Sichuan Basin - K. Qian (Petroleum Exploration and Production Research Institute,SINOPEC) | 10:30 |  Water Flood Optimization Opportunity in PAD Well in Greater Burgan - K. Al-Resheedi (Kuwait Oil Company) |
| 10:50 |  An Improved Residual Oil Evaluating Method Using Carbon/Oxygen Spectroscopy Logging in Lime-Bearing Shaly Sand Formation - Q. Liang (School Of Geosciences, China university of petroleum (East China)) | 10:50 |  Detection of seismic velocity traps with MT data - W. Sun (Bgp Inc.,cnpc) | 10:50 |  Experimental Study of the Interaction between Oil and Reservoir Rock on the Relative Permeability and Wettability - M. Rajabi-Kochi (Amirkabir University of Technology) |
| | | 11:10 |  Seismic Stratigraphy and Deep Structure of the Kribi Basin (Cameroon Atlantic Margin) - M. Lionel (Université de Yaoundé I) | 11:10 |  The Impact of Ultrasonic Waves on the Elimination of Asphaltene Precipitates from Porous Media - H. Naderi (Research Institute of Petroleum Industry) |
| | | | | |  Case Study on Optimizing Flare Gas Recovery System of FPSO through FGRC - D. Pandey (University of Petroleum & Energy Studies) |
| 11:30 | Coffee break | 11:30 | Coffee break | 11:30 | Coffee break |
| 11:45 Forum Session 3: Great Career Challenge - the changing education and opportunities for tomorrow's energy professionals - Room 1 | | | | | |
| 12:45 | Lunch | 12:45 | Lunch | 12:45 | Lunch |
| ePoster: Production & Management - EOR/IOR II | | ePoster: Play & Prospect Evaluation | | ePoster: Geochemistry | |
| 14:15 |  Advantages and Pitfalls of Water Dumpflood in a Highly Faulted and Multi Layered Reservoirs - N.A. Mohd Radzuan (Petronas) | 14:15 |  Manometric Method for Sorbed Gas Estimation in Organic-Rich Shales Considering Matrix Swelling: An Overview - A. Michael (Cypriana Petroleum Technology, LLC) | 14:15 |  Insights into the Stable Isotope of the Coalbed Gas: A Neural Network Approach - M. Asif (Indian Institute of Technology (ISM), Dhanbad) |
| 14:35 |  Experimental Evaluation of Enhanced Oil Recovery by pH-sensitive Microgels in Carbonate Formations - S. Sadeghnejad (Tarbiat Modares University) | 14:35 |  Triassic Play Analysis in the Northern Dutch Offshore - L. Hanemaaijer (EBN) | 14:35 |  Silurian aged bitumen from Huy; Belgium's first and Western Europe's oldest petroleum system - M. Arts (Universite de Liege) |
| 14:55 |  Numerical Investigation of Impact of Three Phase Relative Permeability Hysteresis Models on Performance of WAG Process - S. Tofigh (Amirkabir University Of Technology) | 14:55 |  Sub-Thrust Exploration Plays in South Sumatra Basin, Indonesia. Case Study: Southwest Jirak Block - A. Permana (Pertamina EP) | 14:55 |  Mineralogy, Geochemistry and Hydrocarbon Potentiality of Eocene-Oligocene Black Shale Deposits of Beni Suef Area, Egypt - Z. Abd-Allah (Beni-suef University) |
| 15:15 |  Pore-Scale Investigation of Viscous Cross-Flow in an Oil-Free Matrix-Fracture System - P. Abolhosseini (University of Tehran) | 15:15 |  Stratigraphic Features of Impregnated Sand within the Ratawi Shale and Their Hydrocarbon Prospectivity in Bahrah, Kuwait - P.K. Nath (Kuwait Oil Company) | 15:15 |  Combination of Inorganic and Organic Geochemistry to Study Mechanism of Carbon Isotope Anomalies of Natural Gas - W. Han (Research Institute of Petroleum Exploration & Development, PetroChina) |
| 15:35 | Coffee break | 15:35 | Coffee break | 15:35 | Coffee break |
| 15:55 |  Increasing Oil Recovery in Naturally-Fractured Carbonate Reservoirs Using Microemulsions - I. Ismail (Hellenic Hydrocarbons Resource Management S.A.) | 15:55 |  Geological Equiprobable Multi-Models for Resources Assessment. Carson, Bonniton and Salar Basin, NL, Canada - E. Le Guerroué (Beicip-Franlab) | 15:55 |  Chemically active elements trace hydrocarbon migration with a perspective of fluid-rock interaction - H. Li (Petrochina Research Institute Of Expl. & Developm.) |
| 16:15 |  Tuning of Peng-Robinson Equation of State for Simulation of Oil Compositional Change during EOR Processes - M. Majidi (Heriot-Watt University) | 16:15 |  Frequency Analyzing Based Hydrocarbon Prospects Characterization of Palaeogene High Amplitude Seismic Anomalies in Bohai Oilfield - X. Xie (Bohai Oilfield Research Institute, Tianjin Branch of CNOOC Ltd.) | | |
| 16:35 |  Applying the Synergistic Effect of Chemically Low Salinity Water Flooding Assisted Fines Migration in Coated Micromodel - A. Maghsoudian (Petroleum University of Technology) | | | | |
| 16:55 |  What is the Benefits of Carbonated Water Injection in Heavy Oil Reservoirs: A Case Study - M. Shokriafr (University of Manchester) | | | | |



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Thursday, 21 October | ePoster presentations

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| EPOSTER J | |
|---|---|
| ePoster: Digitalization & AI: Inversion | |
| 08:30 | Deep Learning for Anisotropy Parameters Estimation in Oil/Gas Fractured Reservoirs - G. Sabinin (Lomonosov Moscow State University) |
| 08:50 | Shale Anisotropic Parameters Predicting Based on Deep Neural Networks - F. Wu (China University of Petroleum, Beijing) |
| 09:10 | Data-driven prestack simultaneous inversion for impedance and gas saturation - W. Sang (China University Of Petroleum(Beijing)) |
| 09:30 | A deep learning approach for joint inversion of DC Resistivity and MT data - A.P. Singh (IIT (ISM), Dhanbad) |
| 09:50 | Coffee break |
| 10:10 | Inversion of Magnetic Anomaly using Machine Learning Regression Techniques along with PSO - A. Kumar (Indian Institute Of Technology (Indian School Of Mines) Dhanbad) |
| 10:30 | Seismic inversion based on 2D-CNN and multi-task learning - Q. Wang (Tsinghua University) |
| 10:50 | High-Performance Deep Learning Models for Seismic Noise Detection and Quality Control in the Processing Workflow - P. Webster (Shell) |
| 11:30 | Coffee break |
| 11:45 | Forum Session 3: Great Career Challenge - the changing education and opportunities for tomorrow's energy professionals - Room 1 |
| 12:45 | Lunch |
| ePoster: Digitalization & AI: Interpolation and Interpretation | |
| 14:15 | Propagation of Well-Log Data Imputation Uncertainties Towards the Interpolated 3D-Petrophysical Map Using Epistemic Kernels and Kriging - J.L. Guevara Diaz (Ibm Research) |
| 14:35 | Seismic Interpolation Based on the Random Forest Method - K. Xu (Sinopec Petroleum E&p Research Institute) |
| 14:55 | Seismic Data Denoising and Interpolation Using Deep Learning - R. Zhang (Tsinghua University) |
| 15:15 | Consistent kernel size selection for seismic interpolation with an improved U-net - D. Han (Tongji University) |
| 15:35 | Coffee break |
| 15:55 | Segmentation of Digital Rock Images Guided by Edge Feature Using Deep Learning - Z. Hou (China University of Petroleum (East China)) |
| 16:15 | Deterministic Smart Tools to Predict Recovery Factor Performance of Saline Water Injection in Carbonated Reservoirs - A. Izadpanahi (Persian gulf university) |
| 16:35 | Artificial Intelligence Assisted Horizon Interpretation - J. Lowell (Geoteric) |

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