

# Bridging the Gap: Geosciences to Engineering

10–12 February 2026 • Al Khobar, Saudi Arabia



# TECHNICAL PROGRAMME

## SPONSORS



## DAY 1 - TUESDAY, 10TH FEBRUARY 2026

Venue: Kempinski, Al Khobar, Saudi Arabia

08:00 - 09:00	<b>Onsite Registration</b>
09:00 - 09:05	<b>HSE Address by Hotel</b>
09:05 - 09:15	<b>Welcome Address by Committee Co-Chairs</b>
09:15 - 09:35	<b>Opening Address by Abdulaziz Al Saad, Aramco</b>
09:35 - 09:45	<b>Committee and Sponsor Recognition</b>
09:45 - 09:55	<b>Group Photo</b>
09:55 - 10:15	<b>Coffee Break - 20 min</b>
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Session 1 10:15 - 11:15	<b>MULTI-DISCIPLINARY INTEGRATION PRACTICES AND WORKFLOWS- PART 1</b> Session Chairs: Abdullah Hadab (Aramco), Margarita Kongawoin (DUG)  <b>KEYNOTE: Bridging the Gap between Geophysics and Reservoir Engineering: from Integration Challenges to Values Creation</b> Youness El Ouair (Aramco) <b>Integrated Logging and ML Workflow to Reduce Formation Evaluation Uncertainty and Optimize ICD Design</b> Mohamed Elkholy (Baker Hughes) <b>Predict, Drill, Validate and Act: How Quantitative Reservoir Characterization is Closing the Loop with Drillers</b> Othman Al-Harrasi (Petroleum Development Oman) Discussion - 30 min Lunch - 1 hr
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Session 2 12:45 - 13:45	<b>ADVANCEMENTS IN SEISMIC WORKFLOWS &amp; RESERVOIR CHARACTERISATION</b> Session Chairs: Othman Al-Harrasi (Petroleum Development Oman), Thomas Hancock (Gaffney Cline)  <b>Well Placement Optimization for UBCTD Utilizing Advanced Reservoir-to-Shadow Mono-Frequency Approach</b> Abdulaziz Mohammad Alrashed (Aramco) <b>Bridging Geosciences and Engineering: The Role of Geostatistical Seismic Inversion in Modern Reservoir Modeling</b> Mohammed Ibrahim (Geosoftware) <b>Finding Signal in the Noise: Using multiples and mode conversions to improve AVO inversion</b> Raul Cova (QEYE Labs) Discussion - 30 min Coffee Break - 20 min
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Session 3 14:35 - 15:55	<b>AI, ML AND AUTOMATION- PART 1</b> Session Chairs: Abdullah Hadab (Saudi Aramco), Wathik Alaaraji (TGS)  <b>KEYNOTE: Bridging Geoscience and Engineering through Agentic Artificial Intelligence Based Workflow Automation</b> Umair bin Waheed (KFUPM) <b>Advancing Precision and Efficiency through Geosteering Automation: Automating Petrophysical Interpretation, Structural Analysis, Boundary Mapping, and Well Placement While Drilling</b> Mohamed Fouda (Halliburton) <b>Leveraging Machine Learning and Computer Vision for Borehole Imaging and Drilling Data Interpretation in Subsurface Characterization</b> Ahmed Farid Ibrahim (KFUPM) <b>Wireline Log Interpretation using Machine Learning</b> Margarita Kongawoin (DUG) Discussion - 30 min Welcome Reception
13:45 - 14:15	
14:15 - 14:35	

## DAY 2 - WEDNESDAY, 11TH FEBRUARY 2026

Venue: Kempinski, Al Khobar, Saudi Arabia

Session 4 09:00 - 10:20	<b>MULTI-DISCIPLINARY INTEGRATION PRACTICES AND WORKFLOWS- PART 2</b> Session Chairs: Saleh Al Nasser (Saudi Aramco), Haifeng Wang (SLB)  <b>Pore Network Characterization Utilizing LWD Acoustic Pore Aspect Ratio and NMR Rock Typing for Enhanced Well Placement</b> Marie van Steene (SLB) <b>Integrating Real-time Subsurface Data and Iterative Model Updates: A Case Study in Drilling Success After Repetitive Stuck and Sidetrack Events</b> Mahmoud M. AlGaier (Baker Hughes) <b>Beyond Conventional Logs: Integrating LWD Azimuthal Formation Testing, and NMR based "Free Fluid Ratio" for Advanced Geosteering in Heterogeneous Carbonate Reservoirs</b> Ahmed Taher (Halliburton) <b>More Robust Data-driven Reservoir Properties' Prediction through Multi-source Data Integration</b> Fatai Anifowose (Aramco) Discussion - 30 min Coffee Break - 20 min
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Session 5 11:10 - 11:50	<b>SUBSURFACE UNCERTAINTIES AND RISK MITIGATION</b> Session Chairs: Thomas Hancock (Gaffney Cline)  <b>Karst Denial: The Elephant in the Room - Uncovering the Significant Risks and Implications</b> Paul J Tarabbia (Aramco) <b>Reducing Reservoir Model Uncertainties through Integration of Dynamic Definitive Surveys, Gyro-While-Drilling, and High-Definition Ultra-Deep Resistivity</b> Haifeng Wang (SLB) Discussion - 30 min Lunch - 1 hr
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Session 6 13:20 - 14:20	<b>GEOMECHANICS AND ITS ROLE IN RESERVOIR PERFORMANCE</b> Session Chairs: Mohamed Fouda (Halliburton), Mohamed Kholy (Baker Hughes)  <b>Formation-Dependent Tectonic Lateral Strain Calibration for CCUS Operations applying Microfrac Tests</b> Endurance O. Ighodalo (Aramco) <b>Microfacies Controls on Rock Dynamic Mechanical Properties in Unconventional Carbonate Reservoirs</b> Samer Saleh Hussien Aljurf (KFUPM) <b>Quantification of Transient Pressure/Rate Behaviour of Multifractured Horizontal Wells (MFHWs) by Considering Complex Fracture Networks and Flow Dynamics</b> Daoyong Tony Yang (University of Regina) Discussion - 30 min Coffee Break - 20 min
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Session 7 15:10 - 16:30	<b>GEOSCIENCE FOR RESERVOIR SURVEILLANCE AND MANAGEMENT</b> Session Chairs: Othman Al-Harrasi (Petroleum Development Oman), Wathik Alaaraji (TGS)  <b>KEYNOTE: Dynamic Characterization of Induced Seismicity in Seasonal Underground Gas Storage: Bergermeer Case Study</b> Ahmed Baghdadi (Baker Hughes) <b>4D Joint Inversion and "Close-the-Loop" for Production History Matching and Forecasting</b> Irina Berezina (QEYE Labs) <b>Impact of Induced and Natural Earthquakes in the Structural Setting of a Depleted Gas Field by 4D Seismic Analysis</b> Sebastian Ramirez Florez (KFUPM) <b>Production Enhancement for Mature Assets Via Through-Casing Reservoir Surveillance: Multiphase Reservoir Fluid Characterization Using Pulsed Neutron Well Logging</b> Yonghwee Kim (Baker Hughes) Discussion - 30 min
14:20 - 14:50	
14:50 - 15:10	
16:30 - 17:00	

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## SPONSORS

Diamond



Silver



Welcome Reception



Coffee Break



## DAY 3 - THURSDAY, 12TH FEBRUARY

Venue: Kempinski, Al Khobar, Saudi Arabia

Session 8 09:00 - 9:40	<p><b>AI, ML AND AUTOMATION- PART 2</b> Session Chairs: Mohamed Fouda (Halliburton), Ahmed Farid Ibrahim (KFUPM)</p> <p><b>Adversarial Diffusion Model for Seismic Denoising</b> Yawen Zhang (Zhejiang University)</p> <p><b>Acoustic Borehole Reflection Imaging: Bridging Engineering Execution and Wave Physics</b> Noor Albasheer (Aramco)</p>
9:40 - 10:10 10:10 - 10:30	<p>Discussion - 30 min Coffee Break - 20 min</p>
Session 9 10:30 - 11:30	<p><b>INNOVATIONS IN STATIC AND DYNAMIC MODELING</b> Session Chairs: Thomas Hancock (Gaffney Cline), Abdelrahman Agam (SLB)</p> <p><b>Breaking Silos: From Raw Data to Reservoir Models — Multi-Disciplinary Data Integration in the Volve Field</b> Lee Chung Shen (Geosoftware)</p> <p><b>Constraining Static Models of Deep Gas Reservoirs with Probabilistic Seismic Inversion: Case Studies from the Sultanate of Oman</b> Othman Al-Harrasi (Petroleum Development Oman)</p> <p><b>From Seismic to Simulation: An Integrated Multidisciplinary Approach to CO<sub>2</sub> Storage in Carbonate Systems</b> Nizam Din (Aramco)</p>
11:30 - 12:00 12:00 - 13:00	<p>Discussion - 30 min Lunch - 1 hr</p>
Session 10 13:00 - 14:00	<p><b>CROSS-FUNCTIONAL COLLABORATION CASE STUDIES</b> Session Chairs: Mohamed Kholy (Baker Hughes), Abdelrahman Agam (SLB)</p> <p><b>KEYNOTE: Closing the Loop at Atlantis: Integrating 25 years of 4D Seismic Acquisition, Structural Interpretation, and Production History to improve Late-life Field Development and Management</b> Drew Eddy (Woodside Energy)</p> <p><b>The Impact of Detecting and Quantifying Dissolution Features in Subsurface Carbonates</b> Mandefro Woldeamanuel (Aramco)</p> <p><b>Characterization of the Wolfcamp Formation in the Midland Basin Using Probabilistic and Deterministic Inversion Methods</b> Raul Cova (QEYE Labs)</p>
14:00 - 14:30	<p>Discussion - 30 min</p>
14:30 - 14:40	<p>Closing Remarks by Committee Co-Chairs - 10 mins</p>