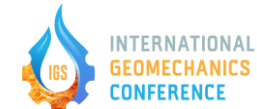


18 November 2025 - Grand Hyatt Khobar											
8:00	1:00:00	9:00	Grand Ballroom Onsite Registration & Exhibition Open								
9:00	0:15:00	9:15	Welcome by KGS Chairman, Ashraf Al-Tahiri, Aramco								
9:15	0:15:00	9:30	Opening Address by Executive VP Mr. Abdulhameed Al-Dughather from Aramco								
9:30	1:00:00	10:30	Executive Panel: Geomechanics at the Crossroads: Powering Exploration, Mining, and Geothermal through Digital and AI Integration Samer Ashgar, Senior Vice President, Exploration - Aramco James P. Brady, Chief Digital Officer - Baker Hughes Treyce Randen, Senior Vice President for Digital Products & Solutions - SLB Heinz Pley, Senior Advisor - Oliver Wyman Moderator: Ahmed Hakami, VP for Characterization and Field Development Geosciences - Aramco								
10:30	0:20:00	10:50	Academic Partner, Sponsor and Exhibitor Recognition								
10:50	0:10:00	11:00	Aramco MOU signing								
11:00	0:15:00	11:15	Exhibition Opening Ceremony								
11:15	1:00:00	12:15	Lunch on 1st Floor								
Fellows Venue: Grand Ballroom											
12:15	1:00:00	13:15	Joseph F. Labuz - University of Minnesota Mineral carbon storage and rock fracture experiments								
13:15	1:00:00	14:15	John McLennan - University of Utah An Opportunity at Any Temperature and Location								
Venue: Coffee Foyer Area		Poster Session 1: AI and Data-Driven Methods in Petroleum Geomechanics Session Chair: Basimudin Rachman, Aramco			Poster Session 2: Hydraulic Fracturing: Modeling, Lab, Monitoring, Diagnostics, Operations Session Chair: Francis Elsiebeth, Aramco			Poster Session 3: Advances and Geomechanics Applications in Mining Session Chair: Bing Hou, CUP Beijing			
14:15	0:10:00	14:25	Jialin Zhang (CUP Beijing) Data Mining Evaluation for Diverting Effectiveness of Hydraulic Fracturing		5		Shenyu Wang (China Zhenhua Oil, Ltd) Research and application of temporary plugging fracturing technology combined with distributed optical fiber monitoring in the transformation of unconventional tight conglomerate reservoirs		Poster Session 4: Advances and Geomechanics Applications in Geothermal Resources Session Chair: Musab Mudraa, Aramco		
14:25	0:10:00	14:35	Ahmadreza Younessi (Baker Hughes) Compaction and Subsidence Induced by Hydrate Dissociation in Deepwater Wells in Offshore Brunei		6		Luyao Wang (CUP Beijing) Research on Real-Time Hydraulic Fracturing Prediction Based on Neural Networks		Hamed Seroush (Teverra LLC) Mitigating Wellbore Instability in Superhot Rock Drilling Using Millimeter Wave Technology		
14:35	0:10:00	14:45	Hongda Li (CUP Beijing) Numerical Simulation of Hydraulic Fracture Propagation Mechanism in Hydrate-Bearing Sediments: A Case of the Shenhu area in the South China Sea		7		Dapang Zhang (China University of Petroleum) Research on Real-Time Hydraulic Fracturing Prediction Based on Neural Networks		Bo Zhang (University of Alberta) Geo-Resource Agent for Automated Geo-Resource Reservoir and Geomechanical Characterization Workflows Integrating Large-Language Models (LLM), User Input Geological Data and Domain Specialized Toolbox		
14:45	0:10:00	14:55	Allah Ayyazabi (Shell) AI-Driven Geomechanics Sweetspotting to Derisk Tight Gas Exploration in In-Complex Stress Regimes		8		Dapang Zhang (China University of Petroleum) Numerical Simulation of Hydraulic Fracture Propagation Mechanism in Hydrate-Bearing Sediments: A Case of the Shenhu area in the South China Sea		Ziyao Liu (KAUST) Optimization of Integrated Geothermal Reservoir and Power Plant		
14:55	0:35:00	15:30	Coffee Break - 35 min		9		Seytanant Ghosh (Indian School of Mines) Geomechanical evaluation of the Pliocene El Wastani clastic reservoir from a deepwater gas field, Nile Delta		Wenxin Yan (CUP East China) A mathematical model for shale permeability with stress sensitivity and the boundary-layer effect		
Society President Panel:											
15:30	1:00:00	16:30	DGS - Ezzadeen Alfatleerg SEG - Mohammed Badri ARMA - Rita Sousa EAGE - Anke Wendt CIRMV - Fengshou Zhang SPE Bahrain - Abdulla Althawadi GSD - Said Yaqoub Saeed Al-Rahbi SPWLA - Robert Gules Saudi Arabia Intersore Chapter - Tameem Almani SPE ISA - Mohammed Muzlem Moderated by Gang Han							Session 2: AI Data-Driven Methods in Fundamental Geomechanics Venue: Ar Riyad (1st Floor)	
Session 1: AI and Data-Driven Methods in Petroleum Geomechanics Venue: Grand Ballroom B & C			Co-Chair: Tariq Alshahmubarak, Aramco Co-Chair: Sultan Enezi, Aramco			Session 3: Geothermal Resource Development: Case Studies and Future Technologies Venue: Al-Raya 1 & 2			Co-Chair: Harald Stockhausen, THREED Energy Co-Chair: Jerome Sfeir, KGS Energy		
16:30	0:20:00	16:50	Anke Wendt (SLB) Proxy Geomechanical Modeling for Sustainable & Efficient Well Construction		6		Weichang Li (Zhejiang University) Automated Drill-Cutting Characterization Using Segmentation and Shape Analysis		11		
16:50	0:20:00	17:10	Lingdan Xia (SLB) Facilitating operational decision-making for CCUS operations through real-time acoustics processing supported by machine learning		7		Peerzadi Azeena Imiyev (Indian Institute of Technology Hyderabad) Dynamic Energy Dissipation in Porous Geomaterials: High-Strain-Rate Experiments and Bio-Inspired Machine Learning Predictions		12		
17:10	0:20:00	17:30	Jijun Miao (Sintech LLC) Next-Generation Hydraulic Fracture Optimization Enabled by AI and GPU-Based Simulation		8		Mostafa Mobasher (New York University Abu Dhabi) FEMN with DeepONets: accelerating simulations in coupled geomechanics processes		13		
17:30	0:20:00	17:50	Johannes Vossen (Baker Hughes) Assessing Machine Learning Derived Prediction of Acoustic Log While Drilling: Impact on geomechanics modelling in real time operations		9		Frans Mulders (Geoactive) Combining Machine Learning and Scratch Test Data for Enhanced Rock Strength Prediction		14		
17:50	0:20:00	18:10	Adrian (Emilio) Sanchez Garcia (KAUST) A Deep Learning Approach for the Automated Extraction of Natural Fracture Traces from Two Dimensional Orthoimages Derived from Digital Outcrop Models		10		Yousef Golabchi (York University) Influence of data augmentation on machine learning algorithms & predicting excavation damage zone depth		15		
Session 3: Geothermal Resource Development: Case Studies and Future Technologies Venue: Al-Raya 1 & 2										Co-Chair: Harald Stockhausen, THREED Energy Co-Chair: Jerome Sfeir, KGS Energy	
Marine Dehevels (KAUST) On the use of Distributed Acoustic Sensing displaying amplitude polarity flip: case study in KAUST, Saudi Arabia										11	
Hamid Nick (DTU) Thermal Sweep Efficiency in Fractured Reservoirs: A Coupled Process Perspective										12	
Marc Hettema (EBN) Determination of Seal Stresses for Geothermal Applications in The Netherlands: Methodology and Model										13	
Kareem Aboaynah (University of Toronto) Unraveling Deformation and Seismicity in Hot Dry Geothermal Reservoirs: New Insights from Real-time Full-Field Displacement Laboratory Monitoring										14	
Yunpeng Zhang (CUP Beijing) The Study of the Impact of Lost Circulation On Wellbore Temperature During Drilling And The Establishment Of An Inversion Model										15	

19 November 2025 - Grand Hyatt Khobar				
7:30	1:00:00	8:30	Onsite Registration	
8:30	0:15:00	8:45	Opening Speaker: Ashraf Tahiri, Aramco	
8:45	0:10:00	8:55	AI Lab award ceremony	
			Mining Panel: Craig Conway – President, DI-Corp Industrial Adam Donald – Technical Director, SLB Zaka Emad – Professor, KFUPM Ahmed Abou-Sayed - Advantek Jian Zhao – Professor, Monash University Moderator, Musab Modra, Aramco	
8:55	1:00:00	9:55		
9:55	0:24:00	10:19	Coffee Break - 15 min	



15	0:24:00	10:19	Coffee Break - 15 min			Session 4: Well Stimulation and Completion Geomechanics Co-Chair: Tengfei Hou, CNPC Venue: Grand Ballroom B & C			Session 5: CO2 Containment Risks Co-Chair: Frans Mulders, GeoActive Co-Chair: Femi Olorode, USU Venue: Grand Ballroom A			Session 6: Mining and Rock Fragmentation Co-Chair: Hossein Masoumi, Monash University Co-Chair: Muni Aldin, MetaRock Laboratory Venue: AI Abuha				
10:19	0:20:00	10:39	1	Osman Hamid (Aramco)	Geomechanical Characterization and Monitoring of Thermally and Hydraulically Induced Fracture Evolution during Cold Fluid Injection	6	Claudia Sorgi (SLB)	Integration of Quantitative Risk Assessment and Predictive Measurement Modelling for Optimized MHV in CCS Injection Projects	11	Muhammad Zaka Emad (KFUPM)	Advances in In-Situ Stress Measurement for Underground Engineering Applications					
10:39	0:20:00	10:59	2	Kaiming Xia (Aramco)	Mitigating Challenges in Open-hole Multistage Fracturing Treatment	7	Tan Chee Phuat (PETRONAS)	Sensitivity of Thermal Effect Simulation to Local Grid Refinement in Coupled Thermal Geomechanical Modelling of CO2 Geological Storage	12	Shankar Vikram (National Institute of Rock Mechanics)	Assessing Ground Truth While Transitioning from Open Pit Mining to Underground					
10:59	0:20:00	11:19	3	Svetlana Zhigilevskiy (GPN)	Hydraulic fracture design based on anisotropic stress model for a tight oil reservoir	8	Adam Bere (Rockfield)	Efficient 3D Field Scale Geometry Construction for Geomechanical Modelling of Fault Reactivation and Induced Seismicity		Rached Rached (SINOPEC STIME)	How Small is Too Small? Thickness Limits for Micro-Indentation Analysis of Drill Cuttings					
11:19	0:20:00	11:39	4	Egor Dontsov (ResFrac)	Hydraulic fracture propagation along bedding planes in shales occurs more often than we think	9	Abbas Mhalar (Baker Hughes)	Risk Assessment of CO2 Sequestration in a Heavily Depleted North Sea Gas Field		Zhong Hou (China University of Petroleum in Beijing)	Numerical Investigation of Ice Air Jet Penetration into Coal Using a Hybrid CFD-DPM & DEM-FEM Approach					
11:39	0:20:00	11:59	5	Chiara Cavallini (SLB)	Acoustical Sonic Measurements for Geomechanics Modeling in Layered Formations for Horizontal Well Stimulation	10	Alfiah Alyanbi (Shell)	AI-Driven Geomechanical Risk Assessment for CO2 Sequestration in Complex Reservoirs Using Field Data and Calibrated Models								
Venue: Coffee Foyer Area			Poster Session 5: CO2 Geomechanics Based Risk Analysis Session Chair: Fatima A Ruwal, Saudi Aramco			Poster Session 6: Advances in Subsurface Energy and Environmental Geotechnics Session Chair: Ahmed Yaseri, KFUPM			Poster Session 7: In-situ Stress Characterization Session Chair: Eduardo Granado, SINOPEC STIME			IGS Student Contest Group 1 Venue: AI Abuha		IGS Student Contest Group 1 Venue: Grand Ballroom A		
11:59	0:10:00	12:09	1	Samantha Han (SLB)	In-situ Horizontal Stress Characterization to Optimize CCS Injection Plan - Maximize Injection Rates And Minimize Containment Risk	4	Olufemi Olorode (Louisiana State University)	In-situ Horizontal Stress Characterization to Optimize CCS Injection Plan - Maximize Injection Rates And Minimize Containment Risk	7	Michal Kępiński (Ron Science)	The Hidden Influence: TOC and Clay Content in Pore Pressure Estimation				Abdulaziz AlKhuraifi, American University of the Middle East (Kuwait) - Mitigating Dynamic Amplification through Adjusting the Natural Frequency of Wind Turbines Supported on Monopiles	
12:09	0:10:00	12:19	2	Wei Lu (Institute of Geology and Geophysics, Chinese Academy of Sciences)	Mechanism of Shear Failure in Sandstone Structural Planes Induced by Supercritical CO2 Injection	5	Yudina Hanifah (Yokohama National University)	Simulation of soil deformation under suffusion incorporating porosity-driven changes in hydraulic and mechanical properties	8	Sadeq Al-Adi (Baker Hughes)	Influence of Minimum Horizontal Stress and Fracture Initiation Pressure on Well Design in Depleted Reservoirs: A Comparative Analysis of Deepwater and Shallow-Water Applications				Deborah BABULUMBA, Makerere University (Uganda) - POLYMER-INDUCED GEOMECHANICS FOR SUSTAINABLE ENERGY SYSTEMS AND RESILIENCE	
12:19	0:10:00	12:29	3	Ahmedreza Younessi (Baker Hughes)	Addressing uncertainties in minimum horizontal stresses for cap rock integrity analysis for CO2 injection in depleted reservoirs	6	Hamid BIAN (University of Lille)	Pore Structure and Hydraulic Properties of Latent Soil Reinforced with Ryegrass Roots: Insights from CT Scanning	9	Hamid BIAN (University of Lille)	Pore Structure and Hydraulic Properties of Latent Soil Reinforced with Ryegrass Roots: Insights from CT Scanning				Sanchez ZunigaGiles Elong, UNAM (Mexico) - 1D Geomechanical Modeling for HHPT Onshore Wells: A Foundational Tool for Drilling Optimization and Energy Transition Applications	
12:29	0:10:00	12:39	4	Ahmedreza Younessi (Baker Hughes)	Assessing the Impact of Rock Mechanical Properties Uncertainty on Upper Limit of Injection Pressure for a CO2 Storage in a Depleted Gas Reservoir in Gulf of Thailand		Jia Cunxi (The University of Texas at Austin)	Numerical evaluation of different physical mechanisms on geological carbon storage in saline aquifers		Koji Kashihara (JAPXEC)	Visualization of the Deformation Behavior of Sidewall Cores for Estimating In-situ 3D Stress Components					
12:39	1:29:00	14:08	Lunch on 1st Floor													
Session 7: Multi-Scale & Multi-Physics Geomechanics – THMC coupling, nano- to field-scale geomechanics Venue: Grand Ballroom B & C			Co-Chair: Mohammed Al-Azmi, PDO Co-Chair: John Cain, Rockfield			Session 8: Applications of Drilling Geomechanics Venue: Grand Ballroom A			Co-Chair: Satya Penumalla, Baker Hughes Co-Chair: Wei Liu, China University of Petroleum in Beijing			Session 9: Advancements in Hydraulic Fracturing Venue: AI Abuha			Co-Chair: Mark McClure, ResFrac Co-Chair: Mao Sheng, China University of Petroleum in Beijing	
14:08	0:20:00	14:28	13	Invited Speaker: Younane Aboueleiman (University of Oklahoma)	Organic Rich Shale Micro-Beams – SEM to Field: A Moment of Serendipity	17	Invited Speaker: Hussain Al-Ahrami (Aramco)	Taking Drilling Geomechanics to The Digital World and the Dynamic Drilling Environment	23	Invited Speaker: Ahmed Abou-Sayed (Advantek International)	A Geomechanics Look at The Morphology of Hydraulic Fracturing in Public Eye					
14:28	0:23:00	14:51	14	Rached Rached (STIME)	Fluid-Exposure Effects on Micro-Indentation Properties of Drill Cuttings	18	Abdallah Ghreizat (American University of Beirut)	Influence of graphene nanoplatelets and multi-walled carbon nanotubes on the performance of oil well cement: An experimental approach	24	Gang Han (ARAMCO)	Turning of Hydraulic Fracture: Near-Wellbore Complexity					
14:51	0:20:00	15:11	15	Keyu Tong (Tongji University)	Thermo-Hydro-Mechanical DBM Modeling of Hydraulic Fracturing in Hot Dry Rock under High-Temperature Conditions	19	Qingqi Li (Aramco)	Impact of Diagenesis, Pore Shapes and Heterogeneity on Wellbore Stability in Carbonate Rocks	25	Jie Bai (Research Institute of Petroleum Exploration & Development)	Rock mechanical Characteristics of deep coal-rock reservoirs in the Ordos Basin and Understanding of hydraulic fracturing					
15:11	0:20:00	15:31	16	Hector Gonzalez (Aramco)	Numerical Modelling of Stress-Dependent Permeability in Reservoir Rocks Using COMSOL Multiphysics	20	Christian Bikong (KAUST)	Sensitivity analysis of fixed cutter PDC drill bit design on drill string lateral vibrations and induced wellbore instability using a 3D finite element model	26	Daniel Warriner (KAUST)	Fiber Optic Distributed Acoustic Sensing in Laboratory-Scale Hydraulic Fracture Experiments: Implications for Monitoring					
15:31	0:11:00	15:42		Olufemi Olorode (Louisiana State University)	Geomechanical Studies of Using Biologically Induced Mineral Precipitation for Safe Geo-Energy Storage	21	Mingfei Yan (CUP Beijing)	Influence of drill string vibration on wellbore stability in conglomerate formation based on CFD-DBM	27	Carlos Rodriguez-Hernandez (Sinopec Tech Middle East LLC)	Discrete Element Method Simulations of Stress-Fabric Coupling during Hydraulic Fracture Propagation in Pre-Structured Rocks					
15:42	0:20:00	16:02				22	Beiyu Han (CUP Beijing)	Geomechanical Analysis of Wellbore Instability in Smectite-Rich Interbedded Formations: Addressing Drilling Challenges in the East China Sea	28	Harald Stockhausen (Three60Energy)	Thermochemical Fracturing as an alternative of the conventional hydraulic fracture treatment, initial experimental phase					
16:02	0:15:00	16:17	Coffee Break - 15 min													
Venue: Coffee Foyer Area			Poster Session 8: CO2 Processes Session Chair: Aly Abdallaoui, Petronas Canada			Poster Session 9: Hydraulic Fracturing: Modeling, Lab, Monitoring, Diagnostics, Operations Session Chair: Michal Kępiński, Ron Science			Poster Session 10: Fracture Mechanics & Crack Propagation – Experimental and numerical investigations into rock and material failure Session Chair: Adam Bere, Rockfield			Best of CSRME Session Chair: Fengshou Zhang, Tongji University Venue: Grand Ballroom B				
16:17	0:10:00	16:27	11	Yunpeng Zhang (CUP Beijing)	Phase Field Modeling of CO2 Energized Fracturing and Sequestration in Naturally Fractured Shale Reservoirs: Effect of Multiphase Fluid-Loss	16	Ashok Shinde (Baker Hughes)	Hydraulic Fracturing Candidate Selection and Success Using Novel Integrated Workflow	21	Yusuf Nisray (NUST MISB)	Coupling of the Nonlinear Static Hysteretic Parameter and the Growth of the "generalized" Density of Microcracks in Rock Samples					
16:27	0:10:00	16:37	12	Ying Xin (Tongji University)	Inverse modeling of coupled thermo-poro-mechanical responses in CO2 sequestration using a CNN-Transformer surrogate model	17	Kejun Tian (China University of Petroleum, Beijing)	Data Mining on Water Hammer Diagnostic for Enhancing Cluster Efficiency of Multistage Completion	22	Ravindra Burnwal (Indian Institute of Technology Roorkee)	FAILURE MECHANISMS OF CYLINDRICAL CAVITY IN ROCK MASS UNDER POLYAXIAL STRESS CONDITION					
16:37	0:10:00	16:47	13	Ashok Shinde (Baker Hughes)	Integrated Risk Assessment in Carbon Capture & Storage (CCS) Operations: Two-way Coupling with Reservoir & Geomechanical Modeling	18	Zhengpei Yu (CUP Beijing)	Productivity Enhancement in Unconventional Reservoirs by Supercritical CO2 Shock Fracturing		Abdelrahman ASSAKOU (Dassault Systems)	Machine Learning based on Surrogate Modeling for Real-time Hydraulic Fracture Propagation Prediction					
16:47	0:10:00	16:57	14	Nicola Castelletto (Lawrence Livermore National Laboratory)	Massively Parallel Multiphysics Simulation of Subsurface Energy and Storage Systems Using GEOS	19	Shaohua You (CUP Beijing)	How Does Hydraulic Fracture Propagation Affect LF-DAS Signals: A Comprehensive Analysis and Interpretation Workflow	24	Prajati Shestawat (Rajiv Gandhi Institute of Petroleum Technology)	Mathematical Modelling and Statistical Validation of Specimen Geometry Effect on Axial Point Load Index of Anisotropic Rock					
16:57	0:10:00	17:07	15	Olufemi Olorode (Louisiana State University)	Molecular Investigation of Pore Pressure Effects on Geomechanics During Combined CO2 and Surfactant Enhanced Oil Recovery	20	Ehadi (Marwan) Diallo (KAUST)	Liquid Nitrogen Preconditioning Strategy for Breakdown Pressure Reduction for Hydraulic Fracturing on Ultra-Dense Marble – A Laboratory Study								
Session 10: EOR, Water Flooding and Induced Seismicity Venue: Grand Ballroom B & C			Co-Chair: Thomas Finkbeiner, KAUST Co-Chair: Ahmedreza Younessi, Baker Hughes			Session 11: AI and Data Driven Methods for CO2 Sequestration and Utilization Venue: Grand Ballroom A			Co-Chair: Hamid Nick, DTU Co-Chair: Mohith Bernal, Aramco			Session 12: CO2 Reservoir Characterization and Modeling Venue: AI Abuha & B			Co-Chair: Johannes Vossen, Baker Hughes Co-Chair: Zhenqin Huang, China University of Petroleum (East China)	
17:07	0:20:00	17:27	29	Sadeqh Asadi (Baker Hughes)	Assessing Stress Path Uncertainty in Fault Stability during Reservoir Depletion	33	Ziyu Liu (KAUST)*	Accelerating Uncertainty Quantification in Geological Carbon Sequestration Through Deep Learning	37	Rayan Yehya (American University of Beirut)	Assessing the Interplay of Impurities and Thermal Effects on CO2 Sequestration in Saline Aquifers					
17:27	0:20:00	17:47	30	Manoj Sarfare (Petroleum Development Oman)	Insights from Multi-Disciplinary Approach to Optimize Waterflood Operating Envelope in Highly Depleted Sandstone Reservoirs: An Integrated Study from Marginal Fields of South Oman	34	Maria Sierra Hernandez (KAUST)	Mechanical characterization of Upper Jurassic anhydrite-carbonate sequences in Saudi Arabia and its implications for seal integrity	38	Xinhao Wang (CUP)	A Study on EOR Mechanisms and Multi-Objective Optimization of Deoxygenated Air Injection in Fault-Controlled Reservoirs					
17:47	0:20:00	18:07	31	Weiwei Zhu (Institute of Geology and Geophysics, Chinese Academy of Sciences)	Advances in Hydraulic Fracturing Simulation with Consideration of Complex Natural Fracture Networks	35	Bo Zhang (University of Alberta)	Deep Reinforcement Learning Optimizing for Geological CO2 Storage: Considering Geomechanical and Leakage Risks	39	Hamid Nick (DTU)	Coupled Geomechanical Analysis of Cold CO2 Injection in the Harpal East Chalk Field					
18:07	0:20:00	18:27	32	Sadeqh Asadi (Baker Hughes)	Safe Operating Envelope for Injector Wells – A Geomechanical Risk Assessment	36	Vincenzo De Gemario (SLB)	Artificially Intelligent Performance Management of Carbon Storage Sites	40	Lei Hou (Shanghai Jiao Tong University)	Feasibility and key issues of CO2 storage in depleted shale reservoirs					



20 November 2025 - Grand Hyatt Khobar										 ISB GEOMECHANICS CONFERENCE		
8:30	9:15:00	8:45	Opening Speaker: Ali Ayousef, KFUPM									
8:45	9:20:00	9:05	Session 13: Rock Fragmentation and Mining Techniques Venue: Grand Ballroom B & C			Co-Chair: Andra Lajla, Geomechanica Co-Chair: Cunq Jia, KAUST			Session 14: Fracture Mechanics & Crack Propagation – Experimental and numerical investigations Venue: AI Ahsa 1 & 2			
9:05	9:20:00	9:25	1	Invited Speaker: Manchao He (China University of Mining and Technology)	The Future of Energy in China			5	Invited Speakers: Kan Wu (Texas A&M)	State-of-the-Art Applications of Distributed Strain Sensing in Fracture Characterization and Well Integrity Monitoring		
9:25	9:20:00	9:45	2	Johnson Ha (Geomechanica)	Reducing Uncertainty in Mining Applications Through Advanced Numerical Modelling			6	Tameem Alnami (Aramco, KFUPM)	A Partially Parallel in Time Unconstrained Split Iterative Coupling Scheme for Modelling Hydraulic Fracture Propagation		
9:45	9:20:00	9:45	3	Li Xinlong (CUP Beijing)	Experimental Study on Rotational Cutting Characteristics of Conglomerate by PDC Cutters			7	Gary Couples (Heriot-Watt University)	La Mort du ‘Stress Function’? Challenging the Kirsch and Inglis Models		
10:05	9:20:00	10:25	4	Abmadreza Younessi, Baker Hughes	Geomechanical Analysis of CO2 Storage in a Multi-Layer Depleted Field in Offshore Malaysia			8	Keita Yoshioka (Mitsubishi Heavy Industries)	Nucleation of remote hydraulic fracturing		
10:25	9:20:00	10:45						9	Xiaodong Ma, University of Science and Technology of China	In situ stress characteristics and hydraulic fracturing performance – insights from key unconventional reservoirs in China and the US		
10:45	9:15:00	11:00	Coffee Break - 15 min						Session 15: Advances in Subsurface Energy Storage Venue: AI Ahsa 1 & 2			
11:00	9:20:00	11:20	Session 16: Advances in Subsurface Energy Storage - 2 Venue: Grand Ballroom B & C			Co-Chair: Murtattha Tammar, Aramco Co-Chair: Amer Anazi, Aramco			Co-Chair: Yaser Zayez, Aramco Co-Chair: Marwan Alsinan, Stanford University			
11:20	9:20:00	11:40	16	Pramod Dikhan (The University of Melbourne)	Impacts of Actinogenesis Reaction on Shale Caprock Integrity during Underground Hydrogen Storage			20	Wu Bangchen (Institute of Geomechanics, Chinese Academy of Geological Sciences)	Numerical Simulation Study on the Long-Term Sealing Integrity of Fault-Block Oil-Reservoir-Based Underground Gas-Storage Cluster		
11:40	9:20:00	12:00	17	Aisha Al Hashmi (Wazeda University)	Numerical Simulation Study of Underground Hydrogen Storage for Uncertainty Evaluation in Salt Domes in Oman			21	Ugur Goktug Gunal (Turkish Petroleum Corporation)	Combine Core Data with Geomechanics to Investigate Drilling Problems in SE Turkey Carbonates		
12:00	9:20:00	12:20	18	Chaimereen Daezle (New Jersey Institute of Technology)	Simulated Superimposition: Effect of Microbial Activities on Geomechanical Response of Hydrogen-Generating Ultramafic Rocks			22	Mohammed Al-Azmi (PDG)	Multi-Scale Validation of Reservoir Compaction in a Shallow Gas Carbonate Reservoir: Integrating CMI and iSAAR with 3D Modelling in Oman's North Field		
12:20	9:20:00	12:40	19	Ahmed Fatah (KFUPM)	Displacement Behavior and Gas Saturations during Drainage Displacement in Sandstone Reservoirs: Application to Subsurface Hydrogen Storage			23		Invited Speaker: Waleed El Seikely (New York University Abu Dhabi)		
Venue: Coffee Foyer Area			Poster Session 11: Geomechanics for Tight Reservoirs and Unconventional Session Chair: Koji Kashihara, Iapex			Poster Session 12: Well Integrity Session Chair: Hany Gamal, Weatherford			Poster Session 13: Regional Case Studies in Petroleum Geomechanics Session Chair: Weiwei Zhu, Chinese Academy of Sciences			
12:20	9:10:00	12:30	1	Mohammed Al-Azmi (PDG) No-Go to Go: A Geomechanical Workflow to Unlock One of Deepest Horizontal Tight Gas Wells in Sultanate of Oman	Abbas Khaksar (Baker Hughes) Geomechanical Assessment of Oriented Perforation in FracPack Sand Control Technique			5	Siqueira Eudes (SLB) Comprehensive Laboratory Study to Determine Compaction Behavior, Permeability and the Effects of Multi-stage Triaxial Testing on Elastic Properties of Carbonate Oil Field in UAE.	12		
12:30	9:10:00	12:40	2	Yuanan Deng (CUP East China) Multi-scale Mechanical Characterization of Shale Reservoirs with High-density Bedding Fractures Using FET Framework	Hongmo Zhu (CUP East China) Simulation of Micro-Annulus Evolution at the Casing-Cement Interface in High-Temperature and High-Pressure Gas Wells			6	8 Satya Perumalla (Baker Hughes) Comparative Evaluation of Scratch Test and Micro-Rebound Hardness Techniques for Assessing Rock Mechanical Strength Profile	13		
12:40	9:10:00	12:50	3	Khagan Khan (Aramco) Formation Breakdown Prediction for Penetrating and Non-Penetrating Fluid during Hydraulic Fracturing	Jili Characterization of Cement Sheath Seal Failure Based on Distributed Optical Fiber Sensing Technology			10	Mohammed Al-Azmi (PDG) Real Time Prediction of Basic Sediment and Water (BS&W) Content from Surface Data Using Ensemble Machine Learning	15		
12:50	9:10:00	13:00	4	Mohammed Al Ahmad (Aramco) A Comparative Geomechanical Assessment of the Deep Tight Sandstones of Arabia: Qualitative Implications for Hydraulic Fracturing Simulation				11	Prajit Chakraborti (Baker Hughes) Combination of 3D Geomechanical Modeling and DFN Modeling to Identify Sweet Spots for Well Planning in Fractured Reservoirs			
13:10	1:00:00	14:10	Lunch on 1st floor									
Venue: Coffee Foyer Area			Poster Session 15: Sanding and Solid Production Geomechanics Session Chair: Marc Hettnera, IBN			Poster Session 16: Special Applications of Well Integrity Session Chair: Zhi Fang, Petro Geomechanics LTD			Poster Session 17: Structural Geomechanics, Tectonics, and Pore Pressure Session Chair: Khagan Khan, Aramco			
14:10	9:10:00	14:20	16	Ousman Hamid (Aramco) Impact of Drilling Fluids on Sanding Potential and Mechanical Integrity in Clastic Sandstone Reservoirs	Mishael Charupsa (SLB) Innovative Approaches to Enhance Micro-Frac Tests for Geomechanical Modeling			21	26 Talab Fedorin (Aramco) Structural characterization of interference structures in the Arabian Platform	29		
14:20	9:10:00	14:30	17	Anusam Sangmaneevan (PTTEP) Production Optimization in Sand-Prone Wells Using Sand Transport Model	Satya Perumalla (Baker Hughes) Completion Evaluation and Optimization for Repurposing of Wells into Gas Storage Candidates in a Brown Field: A Case Study from Nile Delta			22	27 Olga Lyubachova (Math2Market GmbH) Improved modeling of elastic properties in rock formations for seismic analysis	30		
14:30	9:10:00	14:40	18	Gakanit Leeleuchapong (PTTEP) Integrated Experimental and Numerical Study of Water Saturation-Induced Rock Weakening Effects on Sand Production	M Fatouma Naei Pahr (PETRONAS) Fracture Propagation during Water-Alternate-Gas Injection: A Practical Workflow Based on Wellbore Storage Analysis			23	28 Chin Yee Ang (PETRONAS) Leveraging Spatio-Temporal Attention Neural Network for Seismic Interpretation	31		
14:40	9:10:00	14:50	19	Sudhah Asadi (Baker Hughes) Geomechanical Assessment of Sanding Risks in Injectivity Tests	Pengcheng Ji (Chengdu University Of Technology) Research on Classification Optimization of Fracturing Parameters for Shale Oil Based on Geological-engineering double Sweet Spot Evaluation			24	31 Dagang Ji Investigation of Wellbore Thermal Behaviour Considering Thermophysical Properties and Lost Circulation	32		
14:50	9:10:00	15:00	20	Mohammed Al-Azmi (PDG) Breaking Point: When shale Volume Triggers Sand Failure in Clastic Plays				25				
Session 19: Constitutive Modeling & Failure Criteria –Advances in stress-strain behavior, stability and damage mechanics Org Leek Weh (Petrotec)			Co-Chair: Omar Dajani, Aramco Co-Chair: Mohamed El-Kher, SINOPEC SINO			Co-Chair: Xuesong Li, China University of Petroleum in Beijing Co-Chair: Benli Yildirim, Aramco			Session 20: AI Methods and Advances in Drilling Geomechanics Venue: Grand Ballroom A			
15:00	9:20:00	15:20	26		To Fluid Substitute or Not in Geomechanical Workflows: Experimental Evidence			35	36 Tapan Kibandi (Baker Hughes)	Implications of critically stressed fractures in drilling risk management and production enhancement – Case study from fractured Cretaceous carbonates		
15:20	9:20:00	15:40	27	Jerry Kuo (Rockfield)	A Comparative Study of Mohr Coulomb and Critical State Material Models for Predicting Wellbore Stability and Sand Production Volume Prediction			37	37 Jijun Miao (Sintec LLC)	AI-Driven Real-Time Hydraulic Fracturing Platform: Development and Field Validation in Complex Shale Reservoirs		
15:40	9:20:00	16:00	28	Alex(Abofah) Hashemi (University of New South Wales)	Diapermal Core Deformation Analysis (DCDA) versus Acoustic Emission Analysis (AEA) to determine the in-situ stress state: a comparative study			38	38 Guifen Xi (ADNOC) & Prajit Chakraborti (Baker Hughes)	Getting the minimum horizontal stress right to troubleshoot drilling problems encountered in overburden formations– Results from the successful Microfracture tests in the Cretaceous located in AB field, offshore UAE		
16:00	9:20:00	16:20	29	M Noor Fajrismi Bin Che Mat (PETRONAS)	Rock Strength and Elasticity Characterization Using Geophysical Logs, Machine Learning, and Core Data			39	39 Tanshou Ma (Southwest Petroleum University)	A stacking ensemble machine learning approach for pore pressure prediction in real-time during drilling based on mud log data		
16:20	9:20:00	16:40	30	Xianjie Xue (CUP Beijing)	Research on Modeling of Subcritical Crack Propagation Incorporating Mesoscopic Constituents in Conglomerate			40	40 Huanzhong Li (China University of Petroleum Beijing)	Numerical simulation study on fracture propagation in laminated shale using supercritical CO2 fracturing		
16:40	9:30:00	17:10	Closing by Gang Han: Award Ceremony and Announcement for 2026 KGS									