



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 IGS Chairman, Ashraf Al-Tahini, Aramco																				
9:15	0:15:00	9:30	Opening Address by Executive VP Mr. Abdulhameed Al-Dughalither 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 Trygve 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: Basirudin Rachman, Aramco			Poster Session 2: Hydraulic Fracturing: Modeling, Lab, Monitoring, Diagnostics, Operations Session Chair: Francis Elisabeth, Aramco																	
14:15	0:10:00	14:25	1	Jialin Zhang (CUP Beijing) Data Mining Evaluation for Diverting Effectiveness of Hydraulic Fracturing			Zhenyu 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																
14:25	0:10:00	14:35	2	Ahmadreza Younessi (Baker Hughes) Compaction and Subsidence Induced by Hydrate Dissociation in Deepwater Wells in Offshore Brunei			Luyao Wang (CUP Beijing) Research on Real-Time Hydraulic Fracturing Prediction Based on Neural Networks																
14:35	0:10:00	14:45	3	Hongda Li (CUP Beijing) FDEM-DL based prediction and analysis of mechanical properties of ultra-deep heterogeneous dolomite			Dagang Ji (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																
14:45	0:10:00	14:55	4	Afiah Alyaaaribi (Shell) AI-Driven Geomechanics Sweetspotting to Derisk Tight Gas Exploration in in Complex Stress Regimes																			
14:55	0:35:00	15:30	Coffee Break - 35 min																				
Society President Panel:																							
15:30	1:00:00	16:30	DGS - Ezzadeen Alfataleer SEG - Mohammed Badri ARMA - Rita Sousa EAGE - Anke Wendt CSRME - Manchao He SPE Bahrain - Abdulla AlThawadi GSO - Said Yaqoob Said Al-Rahbi SPWLA - Robert Gales Saudi Arabia Interpore Chapter - Tameem Almani SPE KSA - Mohammed Muslem Moderated by Gang Han																				
Session 1: AI and Data-Driven Methods in Petroleum Geomechanics Venue: Grand Ballroom B & C			Co-Chair: Tariq Alshaikhmubarak, Aramco Co-Chair: Sultan Enezi, Aramco			Session 2: AI Data-Driven Methods in Fundamental Geomechanics Venue: Ar Riyad (1st Floor)			Co-Chair: Wael El Sherbeny, Baker Hughes Co-Chair: Anas Marzoug, Aramco			Session 3: Geothermal Resource Development: Case Studies and Future Technologies Venue: Al Ahsa 1 & 2			Co-Chair: Harald Stokhausen, THREEM60 Energy Co-Chair: Jerome Sfeir, XGS Energy								
16:30	0:20:00	16:50	1	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	Marine Deheuvels (KAUST)			On the use of Distributed Acoustic Sensing displaying amplitude polarity flips: case study in KAUST, Saudi Arabia		
16:50	0:20:00	17:10	2	Lingdan Xia (SLB)			Facilitating operational decision-making for CCUS operations through real-time acoustics processing supported by machine learning			7	Peerzadi Arzenea Imtiyaz (Indian Institute of Technology Hyderabad)			Dynamic Energy Dissipation in Porous Geomaterials: High-Strain-Rate Experiments and Bio-Inspired Machine Learning Predictions			12	Hamid Nick (DTU)			Thermal Sweep Efficiency in Fractured Reservoirs: A Coupled Process Perspective		
17:10	0:20:00	17:30	3	Jijun Miao (SimTech LLC)			Next-Generation Hydraulic Fracture Optimization Enabled by AI and GPU-Based Simulation			8	Mostafa Mobasher (New York University Abu Dhabi)			i-FENN with DeepONets: accelerating simulations in coupled geomechanics processes			13	Marc Hettema (EBN)			Determination of Seal Stresses for Geothermal Applications in The Netherlands: Methodology and Model		
17:30	0:20:00	17:50	4	Johannes Vossen (Baker Hughes)			Assessing Machine Learning Derived Prediction of Acoustic Logs 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	Kareem Aboayannah (University of Toronto)			Unravelling Deformation and Seismicity in Hot Dry Geothermal Reservoirs: New Insights from Real-time Full-Field Displacement Laboratory Monitoring		
17:50	0:20:00	18:10	5	Thomas Finkbeiner(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	Yunpeng Zhang (CUP Beijing)			The Study of The Impact of Lost Circulation On Wellbore Temperature During Drilling And The Establishment Of An Inversion Model		



INTERNATIONAL
GEOMECHANICS
CONFERENCE

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 Tahini, Aramco											
8:45	0:10:00	8:55	AI Lab award ceremony											
8:55	1:00:00	9:55	Mining Panel: Craig Convey – 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											
9:55	0:15:00	10:10	Coffee Break - 15 min											
			Session 4: Well Stimulation and Completion Geomechanics Venue: Grand Ballroom B & C		Co-Chair: Tengfei Hou, CNPC Co-Chair: Moustafa Dawoud, Aramco		Session 5: CO2 Containment Risks Venue: Grand Ballroom A		Co-Chair: Frans Mulders, GeoActive Co-Chair: Femi Olorode, LSU		Session 6: Mining and Rock Fragmentation Venue: Al Ahsa Ballroom		Co-Chair: Hossein Masoumi, Monash University Co-Chair: Muni Aldin, MetaRock Laboratory	
10:10	0:20:00	10:30	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 MMV in CCS Injection Projects	11	Muhammad Zaka Emad (KFUPM)	Advances in In-Situ Stress Measurement for Underground Engineering Applications			
10:30	0:20:00	10:50	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			
10:50	0:20:00	11:10	3	Svetlana Zhigulskiy (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 STME)	How Small is Too Small? Thickness Limits for Micro-Indentation Analysis of Drill Cuttings			
11:10	0:20:00	11:30	4	Egor Dontsov (ResFrac)	Hydraulic fracture propagation along bedding planes in shales occurs more often than we think	9	Abbas khaksar (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			
11:30	0:20:00	11:50	5	Chiara Cavalleri (SLB)	Azimuthal Sonic Measurements for Geomechanics Modeling in Layered Formations for Horizontal Well Stimulation	10	Aflah Alyaaribi (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 Gramajo, SINOPEC STME		IGS Student Contest Group 1 Venue: Al Ahsa			IGS Student Contest Group 1 Venue: Grand Ballroom C		
11:50	0:10:00	12:00	1	Samantha Han (SLB)	In-situ Horizontal Stress Characterization to Optimize CCS Injection Plan - Maximize Injection Rates And Minimize Containment Risk	4		Michal Kepiński (Ikon Science) The Hidden Influence: TOC and Clay Content in Pore Pressure Estimation	7					
12:00	0:10:00	12:10	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		Sadeqh Asadi (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	8	Salman Alrasheed, KFUPM (Saudi Arabia) - Time-Dependent Effects of Hydraulic Fracturing Fluid on the Geomechanical and Petrophysical Properties of Tight Sandstone	Abdullateef AlKhuraifej, American University of the Middle East (Kuwait) - Mitigating Dynamic Amplification through Adjusting the Natural Frequency of Wind Turbines Supported on Monopiles			
12:10	0:10:00	12:20	3	Ahmadrza Younessi (Baker Hughes)	Addressing uncertainties in minimum horizontal stresses for cap rock integrity analysis for CO2 injection in depleted reservoirs	6		Samantha Han (SLB) Improving geomechanical modeling through log verticalization and stress inversion	9	Orkhan Nasibov, Baku Higher Oil School (Azerbaijan) - OUTCROP DIGITALIZATION RESEARCH PROJECT	Deborah NABULUMBA, Makerere University (Uganda) - POLYMER-ENHANCED GEOMECHANICS FOR SUSTAINABLE ENERGY SYSTEMS AND RESILIENCE			
12:20	0:10:00	12:30	4	Ahmadrza 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			Koji Kashihara (JAPEX) Visualization of the Deformation Behavior of Sidewall Cores for Estimating In-situ 3D Stress Components	10	Edmund Li Tian Law, Universiti Teknologi PETRONAS (Malaysia) - Predictive Modelling of Induced Seismicity in Energy Transition	Sanchez Zunigajosias Elionay, UNAM (Mexico) - 1D Geomechanical Modeling for HPHT Onshore Wells: A Foundational Tool for Drilling Optimization and Energy Transition Applications			
12:30	1:10:00	13:40	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-Aamri, PDO Co-Chair: John Cain, Rockfield		Session 8: Applications of Drilling Geomechanics Venue: Grand Ballroom A		Co-Chair: Satya Perumalla, Baker Hughes Co-Chair: Wei Liu, China University of Petroleum in Beijing		Session 9: Advancements in Hydraulic Fracturing Venue: Al Ahsa		Co-Chair: Mark McClure, ResFrac Co-Chair: Mao Sheng, China University of Petroleum in Beijing	
13:40	0:20:00	14:00	13	Invited Speaker: Younane Abouleiman (University of Oklahoma)	Organic Rich Shale Micro-Beams – SEM to Field: A Moment of Serendipity	17	Invited Speaker: Hussain AlBahrani (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			
14:00	0:20:00	14:20	14	Rached Rached (STME)	Fluid-Exposure Effects on Micro-Indentation Properties of Drill Cuttings	18	Abdallah Ghreizy (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			
14:20	0:20:00	14:40	15	Keyu Meng (Tongji University)	Thermo-Hydro-Mechanical DEM Modeling of Hydraulic Fracturing in Hot Dry Rock under High-Temperature Conditions	19	Qiuguo 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			
14:40	0:20:00	15:00	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 Wamriew (KAUST)	Fiber-Optic Distributed Acoustic Sensing in Laboratory-Scale Hydraulic Fracture Experiments: Implications for Monitoring			
15:00	0:20:00	15:20		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-DEM	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			
15:20	0:20:00	15:40				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			
15:40	0:15:00	15:55	Coffee Break - 15 min											
Venue: Coffee Foyer Area			Poster Session 8: CO2 Processes Session Chair: Aly Abdelaziz, Petronas Canada		Poster Session 9: Hydraulic Fracturing: Modeling, Lab, Monitoring, Diagnostics, Operations Session Chair: Michal Kepiński, Ikon 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					
15:55	0:10:00	16:05	11	Yunpeng Zhang (CUP Beijing)	Phase Field Modelling of CO2 Energized Fracturing and Sequestration in Naturally Fractured Shale Reservoirs: Effect of Multiphase Fluid-Loss	16		Vysotin Nikolay (NUST MISIS) Coupling of the Nonlinear Static Hysteretic Parameter and the Growth of the "generalized" Density of Microcracks in Rock Samples	21					
16:05	0:10:00	16:15	12	Ying Xin (Tongji University)	Inverse modeling of coupled thermo-poro-mechanical responses in CO2 sequestration using a CNN-Transformer surrogate model	17		Ravindra Burnwal (Indian Institute of Technology Roorkee) FAILURE MECHANISMS OF CYLINDRICAL CAVITY IN ROCK MASS UNDER POLYAXIAL STRESS CONDITION	22					
16:15	0:10:00	16:25	13	Ashok Shinde (Baker Hughes)	Integrated Risk Assessment in Carbon Capture & Storage (CCS) Operations: Two-way Coupling with Reservoir & Geomechanical Modeling	18		Arunkumar SUBRAMANIAN and Abdelhakim AISSAOUI (Dassault Systemes) Machine Learning based Surrogate Modeling for Real-time Hydraulic Fracture Propagation Prediction	23	Manchao He, China University of Mining and Technology, Beijing - Deformation Mechanics Analysis				
16:25	0:10:00	16:35	14	Nicola Castelletto (Lawrence Livermore National Laboratory)	Massively Parallel Multiphysics Simulation of Subsurface Energy and Storage Systems Using GEOS	19		Pranjal Srivastava (Rajiv Gandhi Institute of Petroleum Technology) Mathematical Modelling and Statistical Validation of Specimen Geometry Effect on Axial Point Load Index of Anisotropic Rock	24	Jie Zhou, Tongji University - Geothermal solutions for energy sustainability and resilience in China's infrastructure construction				
16:35	0:10:00	16:45	15	Xuehang Song (Chinese Academy of Sciences)	Supercritical CO2 distribution mechanisms in sandstones: joint acoustic-electrical responses under reservoir conditions	20								
			Session 10:EOR, Water Flooding and Induced Seismicity Venue: Grand Ballroom B & C		Co-Chair: Thomas Finkbeiner, KAUST Co-Chair: Ahmadrza 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: Menhal Ismael, Aramco		Session 12: CO2 Reservoir Characterization and Modeling Venue: Al Ahsa 1 & 2		Co-Chair: Johannes Vossen, Baker Hughes Co-Chair: Zhaogin Huang, China University of Petroleum (East China)	
16:45	0:20:00	17:05	29	Sadeqh Asadi (Baker Hughes)	Assessing Stress Path Uncertainty in Fault Stability during Reservoir Depletion	33	Ziyou 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			
17:05	0:20:00	17:25	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			
17:25	0:20:00	17:45	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 Harald East Chalk Field			
17:45	0:20:00	18:05	32	Sadeqh Asadi (Baker Hughes)	Safe Operating Envelope for Injector Wells – A Geomechanical Risk Assessment	36	Vincenzo De Gennaro (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															
8:30	0:15:00	8:45		Opening Speaker: Ali Alyousef, KFUPM											
				Session 13: Rock Fragmentation and Mining Techniques Venue: Grand Ballroom B & C					Co-Chair: Andrea Lisjak, Geomechanica Co-Chair: Cunqi Jia, KAUST						
8:45	0:20:00	9:05	1	Invited Speaker: Manchao He (China University of Mining and Technology)					The Future of Energy in China						
9:05	0:20:00	9:25	2	Johnson Ha (Geomechanica)					Reducing Uncertainty in Mining Applications Through Advanced Numerical Modelling						
9:25	0:20:00	9:45	3	Li Xinlong (CUP Beijing)					Experimental Study on Rotational Cutting Characteristics of Conglomerate by PDC Cutters						
9:45	0:20:00	10:05	4	Ahmadreza Younessi, Baker Hughes					Geomechanical Analysis of CO2 Storage in a Multi-Layered Depleted Field in Offshore Malaysia						
10:05	0:20:00	10:25													
10:25	0:20:00	10:45													
10:45	0:15:00	11:00		Coffee Break - 15 min											
				Session 16: Advances in Subsurface Energy Storage - 2 Venue: Grand Ballroom B & C					Co-Chair: Murtadha Tammar, Aramco Co-Chair: Amer Anazi, Aramco						
11:00	0:20:00	11:20	16	Pramod Dilshan (The University of Melbourne)					Impacts of Acetogenesis Reaction on Shale Caprock Integrity during Underground Hydrogen Storage						
11:20	0:20:00	11:40	17	Aisha Al Hashmi (Waseda University)					Numerical Simulation Study of Underground Hydrogen Storage for Uncertainty Evaluation in Salt Domes in Oman						
11:40	0:20:00	12:00	18	Chinemerem Okezie (New Jersey Institute of Technology)					Stimulated Serpentinization: Effect of Microbial Activities on Geomechanical Response of Hydrogen-Generating Ultramafic Rocks						
12:00	0:20:00	12:20	19	Ahmed Fatah (KFUPM)					Displacement Behavior and Gas Saturations during Drainage Displacement in Sandstone Reservoirs: Application to Subsurface Hydrogen Storage						
Venue: Coffee Foyer Area				Poster Session 11: Geomechanics for Tight Reservoirs and Unconventionals Session Chair: Koji Kashiwara, Japex					Poster Session 12: Well Integrity Session Chair: Jijun Miao, Simtech						
12:20	0:10:00	12:30	1	Mohammed AL-Aamri (PDO)					Abbas Khaksar (Baker Hughes)						
				No-Go to Go: A Geomechanical Workflow to Unlock One of Deepest Horizontal Tight Gas well in Sultanate of Oman					Geomechanical Assessment of Oriented Perforation in FracPack Sand Control Technique						
12:30	0:10:00	12:40	2	Yuxuan Deng (CUP East China)					Hongmo Zhu (CUP East China)						
				Multi-scale Mechanical Characterization of Shale Reservoirs with High-density Bedding Fractures Using FE ² Framework					Simulation of Micro-Annulus Evolution at the Casing-Cement Interface in High-Temperature and High-Pressure Gas Wells						
12:40	0:10:00	12:50	3	Khaqan Khan (Aramco)											
				Formation Breakdown Prediction for Penetrating and Non-Penetrating Fluid during Hydraulic Fracturing											
12:50	0:10:00	13:00	4	Mohammed Al Ahmad (Aramco)											
				A Comparative Geomechanical Assessment of the Deep Tight Sandstones of Arabia: Qualitative Implications for Hydraulic Fracturing Simulation											
13:00	0:10:00	13:10													
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 Hettema, EBN					Poster Session 16: Special Applications of Well Integrity Session Chair: Zhi Fang, Petro Geomechanics LTD						
14:10	0:10:00	14:20	16	Osman Hamid (Aramco)					Mikhail Charupa (Slb)						
				Impact of Drilling Fluids on Sanding Potential and Mechanical Integrity in Clastic Sandstone Reservoirs					Innovative Approaches to Enhance Micro-Frac Tests for Geomechanical Modeling						
14:20	0:10:00	14:30	17	Anusarn Sangnimnuan (PTTEP)					Satya Perumalla (Baker Hughes)						
				Production Optimization in Sand-Prone Wells Using Sand Transport Model					Completion Evaluation and Optimization for Repurposing of Wells into Gas Storage Candidates in a Brown Field: A Case Study from Nile Delta						
14:30	0:10:00	14:40	18	Eakasit Leelachutipong (PTTEP)					M Faizuddin Mat Piah (PETRONAS)						
				Integrated Experimental and Numerical Study of Water Saturation-Induced Rock Weakening Effects on Sand Production					Fracture Propagation during Water-Alternate-Gas Injection: A Practical Workflow Based on Wellbore Storage Analysis						
14:40	0:10:00	14:50	19	Sadegh Asadi (Baker Hughes)					Pengcheng Ji (Chengdu University Of Technology)						
				Geomechanical Assessment of Sanding Risks in Injectivity Tests					Research on Classification Optimization of Fracturing Parameters for Shale Oil Based on Geological-engineering double Sweet Spot Evaluation						
14:50	0:10:00	15:00	20	Mohammed AL-Aamri (PDO)											
				Breaking Point: When Shale Volume Triggers Sand Failure in Clastic Plays											
				Session 19: Constitutive Modeling & Failure Criteria – Advances in stress-strain behavior, plasticity, and damage mechanics Ong Leak Wah (Petroneas)					Co-Chair: Omar Dajani, Aramco Co-Chair: Rached Rached, SINOPEC STME						
15:00	0:20:00	15:20	26						To Fluid Substitute or Not in Geomechanical Workflows: Experimental Evidence						
15:20	0:20:00	15:40	27	Jerry Koo (Rockfield)					A Comparative Study of Mohr Coulomb and Critical State Material Models for Predicting Wellbore Stability and Sand Production Volume Prediction						
15:40	0:20:00	16:00	28	Alex(Abolfazl) Hashemi (University of New South Wales)					Diametrical Core Deformation Analysis (DCDA) versus Acoustic Emission Analysis (AEA) to determine the in-situ stress state: a comparative study						
16:00	0:20:00	16:20	29	M Noor Fajarimi Bin Che Mat (PETRONAS)					Rock Strength and Elasticity Characterization Using Geophysical Logs, Machine Learning, and Core Data						
16:20	0:20:00	16:40	30	Xianjie Xue (CUP Beijing)					Research on Modeling of Subcritical Crack Propagation Incorporating Mesoscopic Constituents in Conglomerate						
16:40	0:30:00	17:10		Closing by Gang Han: Award Ceremony and Announcement for 2026 IGS											
				Session 14: Fracture Mechanics & Crack Propagation – Experimental and numerical investigations Venue: Al Ahsa 1 & 2					Co-Chair: Haiyan Zhu, Chendu University of Technology Co-Chair: Viktor Morev, Kuwait Oil Company		Session 15: Advances in Subsurface Energy Storage Venue: Al Ahsa 1 & 2				
				Invited Speakers: Kan wu (Texas A&M)					State-of-the-Art Applications of Distributed Strain Sensing in Fracture Characterization and Well Integrity Monitoring						
				Tameem Almani (Aramco, KFUPM)					A Partially Parallel in Time Undrained Split Iterative Coupling Scheme for Modelling Hydraulic Fracture Propagation						
				Gary Couples (Heriot-Watt University)					La Mort du 'Stress Function'? Challenging the Kirsch and Inglis Models						
				Keita Yoshioka (Montanuniversität Leoben)					Nucleation of remote hydraulic fracturing						
				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						