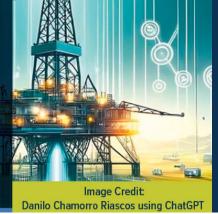


Recent Advances in Geophysical Reservoir Characterization and Monitoring of CO<sub>2</sub> Sequestration in Carbonate Reservoirs

21–23 May 2024 • Abu Dhabi, UAE



## **TECHNICAL PROGRAMME**

SPONSORS	DAY 1 - TUESDAY 21 MAY 2024  Venue: Crystal Ballroom A, Sofitel Abu Dhabi Corniche	DAY 2 - WEDNESDAY 22 MAY 2024  Venue: Crystal Ballroom A, Sofitel Abu Dhabi Corniche	DAY 3 - THURSDAY 23 MAY 2024 Venue: Crystal Ballroom A, Sofitel Abu Dhabi Corniche
DIAMOND  LIGHT  COFFEE BREAK  Baker Hughes	08:00 - 09:00 09:00 - 09:05 09:05 - 09:05 09	Risk Management in CO2 Storage Projects: What can go wrong from Capture to Storage and what options we have to Control?  MODERATOR: Beth Rees, Regional Manager (GeoSoftware) Panelist details to be shared soon  10:30 - 10:50  Coffee Break - 20 min  REGULATORY FRAMEWORKS AND MMVS Session Chairs: Abdelrauof Badawi (ARGAS), Jamal Al Aamri (Oxy)  KEYNOTE: Carbon Storage - Urgent Mandate to Leverage Knowledge and Technologies Ahmed Sabry (SLB) ADNOC Falaha CO2 Sequestration Project, Approach to MMV Plan Development and Opportunities Identification Siqing Xu (ADNOC) Measurement, Monitoring and Verification (MMV) of CCS Projects: ENI Approach and way Forward Gianluca Dell'Efce (ENI)  11:50 - 12:20  Discussion - 30 min  12:20 - 13:20  Lunch - thr  Session 4  13:20 - 14:20  Session Chairs: Beth Rees (Geosoftware), Shotaro Nakayama (INPEX)  KEYNOTE: Enhancing 4D Seismic Monitoring in Desert Environments with the Smart DAS Uphole Acquisition System Ezzedeen Alfataierge (Saudi Armsco) A Time-lapae FWI Study using Walkaway VSP data for CO2-EOR and CO3 Sequestration Monitoring in Carbonate Reservoirs Takuji Mouri (Japan Organization for Metals and Energy Security (JOGMEC) 4D Seismic Best Practices for Low Repeatability of Seismic Acquisition in Carbonate Reservoirs Mohamed Mahgoub (ADNOC)  14:20 - 14:50  Discussion - 30 min  14:50 - 15:10  Coffee Break - 20 min  Ngoc-Tuyen Cao (Baker Hughes) Application Prospects of Microselsmic Monitoring Ngoc-Tuyen Cao (Baker Hughes) Application Prospects of Microselsmic Monitoring Feng Henn (GCP)  16:10 - 16:40  Discussion - 30 min	Session 6 09:00 - 10:20 Session Chairs: Claire Birnie (KAUST), Satya Perumalia (Baker Hughes) KEYNOTE: Combining Geophysical Monitoring, Reservoir Modeling and Geomechanical Modeling for Optimized CO <sub>2</sub> Storage Operations Jean-Philippe Avouac (CalTech) KEYNOTE: Reservoir Characterization and Monitoring in Carbonates for CCS: An Overview of Occidental's Projects, Geophysical Technologies, and Chailenges Matthew Burreson (Oxy) Seismic Inversion to Reduce Uncertainties in a Central Oman Saline Aquifer CO <sub>2</sub> Storage Site Fadi Aljiroudi (Petroleum Development Oman) Enhancing Carbon Capture Effectiveness: Integrated 4D Seismic and CSEM Approaches in Sarawak's Carbonate Platforms Nasim Rallin (PETRONAS)  10:20 - 10:50 Discussion - 30 min  Coffee Break - 20 min  NON-SEISMIC METHODS Session Chairs: Hugo Ruiz (Reach Subsea), Andres Chavarria (Optasense) KEYNOTE: Reservoir Monitoring of CO <sub>2</sub> storage Applications by Measuring 4D Gravity and Seafloor Deformation John Even Lindgård (Reach Subsea) Multiphysics Framework for Carbon Storage Monitoring in Carbonate Reservoirs Daniele Colombo (Saudi Aramco) Monitoring CO <sub>2</sub> in Offshore Depleted Gas Fields by Seafloor Deformation and Time-lapse Gravimetry: the Case of the Morecambe Fields Hugo Ruiz (Reach Subsea) Monitoring Containmentry: the Case of the Morecambe Fields Hugo Ruiz (Reach Subsea) Monitoring Containment Integrity using InSAR and Data-driven Geomechanics for CCS in Carbonates: Learnings from Thermal Injection Kevin Bisdom (Petroleum Development Oman)  12:30 - 13:00 Discussion - 30 min  23:30 - 13:00  Lunch - 1hr Session 8  CASE STUDIES AND LESSON LEARNED PART 2 Session Chairs: Amro Abdel-Halim (SLB), Manayer Esam Hasan Al-Abduillah (KOC)  KEYNOTE: Seaphysical Applications for Carbon Capture and Storage: Some Insights from Malaysia Sandeep K. Chandola (PETRONAS) KEYNOTE: Shallow Fautt Leakage Monitoring with Distributed Fiber Optic Strain Sensing at the CO-2CRC Otway Site, Australia Ziqu Xue (Research Institute of Innovative Technology for the Earth (RITE)) Balancing

