

WORKSHOP AGENDA

CUTTING-EDGE ADVANCES AND BENCHMARKING IN GEOLOGICAL SEQUESTRATION: CO₂ AND HYDROGEN CAPTURE, UTILIZATION, AND STORAGE

9 APRIL 2026 | HAMMAMET, TUNISIA

SESSION 1: 09:00 – 12:45

SESSION 2: 14:00 – 17:00

Time	Session	Notes / Speakers
09:00 – 09:30	Registration, Opening and Workshop Objectives	Essaieb Hamdi PhD, Jun Liu PhD, Kais Ben Abdallah PhD
09:30 – 09:45	Opening and Workshop Objectives	Essaieb Hamdi PhD, Jun Liu PhD, Kais Ben Abdallah PhD
09:45 – 10:15	Technical Presentation 1: Review of 10 Years of Dynamic Injection Data at the Aquistore Project -- CO ₂ /H ₂ storage and production challenges and opportunities in Canada	Rick Chalaturnyk PhD, University of Alberta, Canada
10:15 – 10:45	Technical Presentation 2: Numerical Simulation of CO ₂ Flooding-Enhanced Gas Recovery from Multi-Lithology Coal Measure Reservoirs - CO ₂ /H ₂ storage and production challenges and opportunities in China	Jun Liu PhD, and Li Li, Sichuan University, China
10:45 – 11:15	Technical Presentation 3: Integrated Geological, Geomechanical, and Multidimensional Risk Assessment of CO ₂ Storage in the El Garia Formation, Hasdrubal Field, Tunisia - CO ₂ /H ₂ storage and production challenges and opportunities in Tunisia	Kais B. Abdallah PhD, and Safa Mhadhbi, National Engineering School of Tunis, Tunisia

Coffee Break

Time	Session	Notes / Speakers
11:35 – 12:05	Technical Presentation 4: Evolution of Storage Space as a Result of Mineral Carbonation through Injection of CO ₂ -Saturated Water into Basalts	Qiao, H.G. PhD, China University of Petroleum, China
12:05 – 12:45	Round-Table Discussion: Key Scientific, Engineering, and Deployment Challenges in Geological Sequestration	Moderator: Qinhong (Max) Hu, PhD. Focus: storage integrity, monitoring, uncertainty, scale-up, regulation, and regional opportunities
Lunch Break		
14:00 – 14:30	Technical Presentation 5: Characterization of the apparent diffusion coefficient of CO ₂ in granular shale samples using the pressure-decay method.	Xiao, G.S. PhD, China University of Petroleum, China
14:30 – 15:00	Technical Presentation 6: Initiation, Dynamic Propagation, and Interaction of Fractures in Shale: Implications for CO ₂ migration - CO ₂ /H ₂ storage and production challenges and opportunities in China	Saipeng Huang PhD, Chongqing University, China
Coffee Break		
15:20 – 15:50	Interactive Session 7: Storage in caverns and in clastic sediments, with an emphasis on experimental and numerical challenges - CO ₂ /H ₂ storage and production challenges and opportunities in Brazil.	Sergio Fontoura PhD, PUC-Rio University, Brazil
15:50 – 16:30	Round-Table Discussion: Workshop Synthesis and Future Collaboration Opportunities between contributors and institutions	Essaieb Hamdi PhD, Jun Liu PhD, Kais Ben Abdallah PhD
16:30 – 17:00	Workshop Closing	Essaieb Hamdi PhD, Jun Liu PhD, Kais Ben Abdallah PhD

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