INTERNATIONAL WORKSHOP

Challenges of Sustainable Energy Development and Meeting Net-Zero Carbon Emissions

Sharif University of Technology & Shandong University

17 October 2026 | 25 Mehr 1405

Webinar Link: https://vc.sharif.edu/ia

Workshop Coordinator: Dr. Mohsen Masihi (masihi@sharif.edu)

More information can be found on

Link: ugs2025.events.sharif.ir

IRAN TIME	CHINA TIME	PRESENTATION TITLE	SPEAKER / AFFILIATION
07:30 - 07:45	12:00 - 12:15	Welcome	**Dr. Sadeghi** |Dean of Academic and International Collaborations Sharif University of Technology
07:45 - 08:00	12:15 - 12:30	Opening Speech, IRAN-CHINA Scientific Cooperation	**Dr. Omid Rezaifar** | Director of the Center for International Scientific Studies and Collaborations (CISSC), Ministry of Science, Research and Technology, IRAN
08:00 - 08:30	12:30 - 13:00	From Pore to Planet: Multi-scale Science and AI for Next Generation of CO2 Geological Storage	**Dr. Ayatollahi** Sharif University of Technology
08:30 - 09:00	13:00 - 13:30	Evolution of Temperature and Pressure Fields in Sediment-Filled Salt Cavern Compressed Air Energy Storage Reservoirs Under Cyclic Operation	**Dr. Qingrong Xiong** Shandong University
09:00 - 09:30	13:30 - 14:00	Convective dissolution of Sc-Co2 in aquifers: bridging qualitative and quantitative understanding	**Dr. Sharifi** Amirkabir University of Technology
09:30 - 09:50	14:00 - 14:20	Feasibility modeling of storing H2 in the depleted SRV of shale gas plays.	**Dr. Lei Wang** Chengdu University of Technology
09:50 - 10:00	14:20 - 14:30	Break	
10:00 - 10:30	14:30 - 15:00	Effects of Micro-Scale Heterogeneities (Fractures and Micro-Pores) on the Performance of Underground Hydrogen Storage	**Dr. Mahani** Sharif University of Technology
10:30 - 10:50	15:00 - 15:20	Peridynamic modelling of clay erosion	**Dr. Huaxiang Yan** Fuzhou University
10:50 - 11:20	15:20 - 15:50	Pore-Scale Study of CO_2 Foam for Mobility Control: Implications for Efficient Underground Carbon Storage	**Dr. Simjoo** Sahand University of Technology
11:20 - 11:40	15:50 - 16:10	Numerical analysis on CO2 sequestration and H2 storage in aquifers	**Dr. Xianda Shen** Tongji University
11:40 - 12:10	16:10 - 16:40	Challenges of EV Development in Iran: A Move Toward Zero-Carbon Emissions	**Dr. Majid Abbaspour** Sharif University of Technology
12:10 - 12:30	16:40 - 17:00	Modelling of Cyclic Heat Transfer and Gas Injection Characteristics for Underground CAES Lined Rock Cavern	**Dr. Lige Wang** Shandong University
12:30 - 12:55	17:00 - 17:25	Machine Learning-Based Approaches for Underground Gas Storage	**Dr. Davoodi** Skoltech AI Center, Tomsk Polytechnic University
13:00 - 13:25	17:30 - 17:55	Underground Thermal Storage: Turning Oil and Gas Assets into Thermal Battery	**Dr. Ali Ghalambor** Editor-in-Chief (JPEPT), American Petroleum Institute