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The Munib and Angela Masri Institute of Energy and Natural Resources

cordially invites you to

THE STATUS OF CO_2 EMISSIONS, CAPTURE, AND STORAGE IN SAUDI ARABIA

OCTOBER 4, 2019 | 2:00–3:30 PM

Engineering Lecture Hall, The Munib and Angela Masri Building, AUB

Abstract: The continuous influx of greenhouse gases (GHG) to the atmosphere from various anthropogenic sources is a major environmental challenge facing the globe for years to come. The Kingdom of Saudi Arabia (KSA) has ratified the Paris Agreement and committed to taking measures to reduce CO_2 emissions. Among other technologies, carbon capture, utilization, and storage (CCUS) are expected to play a crucial role in addressing the GHG-emission challenges. Since the early days of the oil and gas industry, CO_2 injection in oilfields has been recognized to be an effective method for enhanced oil recovery (EOR). However, the CO_2-EOR and CO_2 storage implementations worldwide, including KSA, remain very modest. In this talk, we review the key obstacles for CCUS deployments with a focus on KSA. We show the current CO_2 emission inventory from the primary stationary sources in KSA, including their geographical locations, flue gas characteristics, and emission rates. We then review the current effort done in KSA to promote CCUS.

Bio: Hussein Hoteit is an associate professor in Reservoir Engineering at Ali I. Al-Naimi Petroleum Engineering Research Center (ANPERC), King Abdullah University of Science and Technology (KAUST). Before joining KAUST, Professor Hoteit worked for ConocoPhillips and Chevron oil companies in Houston, TX. He has about 15 years of industry experience in reservoir engineering. He currently leads a group of 14 PhD students and researchers with a focus on projects related to chemical EOR, carbon storage, unconventional resources, and reservoir simulation development. Hoteit was an SPE DL, Society of Petroleum Engineers distinguished lecturer, in 2009. He served as an associate editor for SPE Journal. for more than ten years and has received several SPE awards.