

عنوان وبینار: Gas Hydrates Prospects and Challenges

ارائه دهنده: Dr. Pinnelli. S. R. Prasad

زبان ارائه: انگلیسی

زمان: ۱۳۹۹/۹/۲۴

Department of Chemical and Petroleum Engineering

Gas Hydrates Prospects and Challenges

Dr. Pinnelli S.R. Prasad

Gas Hydrate Group, National Geophysical
Research Institute (CSIR-NGRI)



The gas hydrates, a proven source for future energy needs, also find exciting applications in some societal relevant applications, particularly in mitigating the greenhouse gas emissions. The complexities in instrumentation, slow kinetics, and insufficient conversions are some of the stumbling blocks in real-time applications. The experimental approach adopted in our laboratory to effectively address such constraints will be discussed in the presentation. The utility of hydrate-based technology in gas separation, storage, and transportation will be elucidated. Although the amount of fuel gas stored in gas hydrates is enormous, its safe recovery attracts many challenges. Thermal stimulation or depressurization are popular methods to destabilize the hydrate deposits. However, the molecular guest exchange is also attracting attention, incredibly, in deep hydrate deposits. Some initial laboratory results connected with the fundamentals of the guest exchange mechanism will be discussed.

Monday, December 14, 2020

13:30 IRST



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