



INTERNATIONAL INSTITUTE FOR CARBON-NEUTRAL ENERGY RESEARCH

**-MONITORING AND MODELING CO<sub>2</sub> STORAGE RESERVOIRS -**  
**I<sup>2</sup>CNER INTERNATIONAL WORKSHOP**  
**CO<sub>2</sub> STORAGE DIVISION**

DATE: FRIDAY, FEBRUARY 1, 2019

TIME: 12:30-17:20

VENUE: I<sup>2</sup>CNER HALL A

Time	Speaker	Affiliation	Title
12:30-12:50	Takeshi Tsuji	Kyushu University	Activities of CO <sub>2</sub> storage division in 2018
12:50-13:10	Michael Celia	Princeton University	Representation of pore- and core-scale processes in large-scale models for geological carbon storage
13:10-13:40	Atsuhiko Miyagi	Taisei	Parallel workflow for well placement optimization in a heterogeneous reservoir using covariance matrix adaptation evolution strategy
13:40-14:00	Break		
14:00-14:30	Kenneth Christensen	University of Notre Dame	Ongoing rock-inspired, micromodel experiments at reservoir conditions to explore CO <sub>2</sub> flow dynamics during injection
14:30-14:50	Fei Jiang	Yamaguchi University & Kyushu University	Viscous coupling effects on hydraulic conductance of three-phase flow in porous media (Simulation)
14:50-15:10	Keigo Kitamura	Kyushu University	Seismic and electrical monitoring of CO <sub>2</sub> behavior in two types of sandstones (Lab)
15:10-15:30	Jihui Jia	China University of Petroleum & Kyushu University	CO <sub>2</sub> mineralization modeling using <i>Ab Initio</i> Molecular Dynamics
15:30-15:50	Break		
15:50-16:20	Romain Chassagne	Heriot-Watt University	Reservoir characterization and seismic monitoring for oil & gas
16:20-16:40	Claus Aranha	University of Tsukuba	Machine learning and evolutionary algorithms for reservoir modeling
16:40-17:00	Tatsunori Ikeda	Kyushu University	Continuous monitoring of seismic velocity in the Nankai subduction zone from ocean bottom cable recordings of ambient noise
17:00-17:20	Andri Hendriyana	Kyushu University	Automated method to detect and locate long-period seismicity emitted by fluid migration