



INTERNATIONAL INSTITUTE FOR CARBON-NEUTRAL ENERGY RESEARCH

**-CO<sub>2</sub> MANAGEMENT USING THE EARTH-**  
**I<sup>2</sup>CNER INTERNATIONAL WORKSHOP**  
**CO<sub>2</sub> STORAGE DIVISION**

**DATE: FRIDAY, JANUARY 31, 2020**

**TIME: 13:00-17:20**

**VENUE: I<sup>2</sup>CNER HALL B**

Time	Speaker	Affiliation	Title
13:00-13:20	Takeshi Tsuji	Kyushu University	Activity of CO <sub>2</sub> storage division
13:20-13:40	Hiro Nimiya	AIST	Estimation of 3D S-wave velocity model by using ambient noise surface-wave tomography
13:40-14:00	Arata Kioka	Kyushu University	A coupled geochemical and geophysical approach for quantifying CH <sub>4</sub> deep inside submarine mud volcanoes
14:00-14:20	Tatsunori Ikeda	Kyushu University	Continuous monitoring of seismic velocity in high lateral resolution
20 min	Break		
14:40-15:00	Anna Suzuki	Tohoku University	Characterization of relationships between flow and fracture structures by persistent homology
15:00-15:20	Andri Hendriyana	Kyushu University	Monitoring of induced seismicity due to pore pressure perturbation
15:20-15:40	Chanmaly Chhun	Kyushu University	Pore pressure variation to distinguish between CO <sub>2</sub> injection induced earthquake and natural earthquake
20 min	Break		
16:00-16:20	Osamu Nishizawa	Kyushu University	Development of a high-pressure cell incorporated into an x-ray CT for in-situ simultaneous measurements of seismic velocity and CO <sub>2</sub> saturation in a porous rock
16:20-16:40	Fei Jiang	Yamaguchi University	An improved empirical model for hydraulic conductance of three-phase flow in pore network modeling
16:40-17:00	Jihui Jia	China University of Petroleum	Molecular dynamics simulation on AOS and IOS at oil-water interface: effect of molecular architecture
17:00-17:20	Yukiko Ozaki	Kyushu University	Persistent homology analysis of pore-configurations in sintered iron during ductile deformation