



INTERNATIONAL INSTITUTE FOR CARBON-NEUTRAL ENERGY RESEARCH

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## I<sup>2</sup>CNER INTERNATIONAL WORKSHOP

### CO<sub>2</sub> STORAGE RESEARCH DIVISION

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**DATE: WEDNESDAY, FEBRUARY 4, 2015**

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

**VENUE: ITO GUEST HOUSE**

Time	Speaker	Title
<b>13:00-13:10</b>	Takeshi Tsuji	Research topics and recent activities of CO <sub>2</sub> storage division
<b>13:10-13:30</b>	Kenneth Christensen	New insights from velocity field measurements in multiphase flow of water and liquid CO <sub>2</sub> in 2D porous micro models
<b>13:30-14:00</b>	Diogo Bolster	Dissolution patterns from geochemical reactions during CO <sub>2</sub> convective mixing in saline aquifers
<b>14:00-14:30</b>	Masao Sorai	Sealing performance of caprocks: Correlation between threshold pressure and permeability
<b>14:30-14:50</b>	Fei Jiang	Pore scale investigation of CO <sub>2</sub> trapping mechanisms
<b>14:50-15:10</b>		Break
<b>15:10-15:40</b>	Hajime Yamamoto	Leveraging supercomputing for integration and coupling of multi-physics models of geologic carbon sequestration
<b>15:40-16:00</b>	Ziqiu Xue	Microbubble carbon dioxide injection for enhanced dissolution in geological sequestration and improved oil recovery
<b>16:00-16:20</b>	Hiroki Fukagawa	The dynamics of the dissolution process when the gas CO <sub>2</sub> flows through the pore space of a porous material filled with water
<b>16:20-16:50</b>	Osamu Nishizawa	Non-unique relationship between P-wave velocity and the degree of CO <sub>2</sub> saturation in a reservoir sandstone during supercritical CO <sub>2</sub> drainage and brine imbibition
<b>16:50-17:10</b>	Tatsunori Ikeda	Reservoir characterization and monitoring by geophysical methods

**PRESENTATION TIME (INCLUDING 5MIN QUESTION)**

**INVITED SPEAKER 30 MIN**

**I<sup>2</sup>CNER SCIENTISTS 20 MIN**