



International Institute for Carbon-Neutral Energy Research (I²CNER)

I²CNER Workshop

Date : July 28, Thursday, 2011 13:30-14:50

July 29, Friday, 2011 10:00-12:00

Venue: INAMORI Center (Ito campus, Kyushu University)

"International Institute for Carbon-Neutral Energy Research(I²CNER)" was established on December 1, 2010, under the " World Premier International Research Center Initiative (WPI program)" by MEXT.

At this Institute, leading experts in diverse research fields such as chemistry, physics, materials science, mechanics, geoscience, oceanic science and biomimetics conduct research on production, delivery and storage of hydrogen and capture and sequestration of CO₂ in order to contribute realizing a society for carbon-neutral energy.

We will hold the I²CNER workshop by young researchers within as well as outside Japan in these fields. Your participation will be highly appreciated.

Program :

***All presentation will be conducted in English.**

July 28 (Thu) 13:30-14:50

Time	Theme	Presenter	Affiliation
13:30-13:50	Hydrogen trapping at defects in metals	Wen-Tong Geng	University of Science & Technology Beijing
13:50-14:10	Application of clathrate hydrates for industrial use and CO ₂ separation/concentration	Taro Kawamura	Methane Hydrate Research Center, National Institute of Advanced Industrial Science and Technology (AIST)
14:10-14:30	Nanomembranes as a game changing material in separations and transport phenomena	Shigenori Fujikawa	Interfacial Nanostructure Research Lab., Innovation center, RIKEN
14:30-14:50	Laboratory Work on Formation Processes of CO ₂ Hydrates under Submarine Conditions: Toward Carbon Storage	Hiroshi Ohno	Methane Hydrate Research Center, National Institute of Advanced Industrial Science and Technology (AIST)

July 29 (Fri) 10:00 - 12:00

Time	Theme	Presenter	Affiliation
10:00-10:20	Adsorption thermodynamics for understanding solid-state chillers and adsorbed natural gas storage system	Wai Soong Loh	National University of Singapore
10:20-10:40	Effects of hydrogen on Ni-Cr-Mo steel and perspectives on alloys	Arnaud PaulAlain Macadre	Kyushu University
10:40-11:00	The effect of Hydrogen and Low Temperatures on the Mechanical Behavior of High Strength Steels	Augusto Sciuccati	Politecnico Di Milano, Italy
11:00-11:20	Local tribo-mechanical properties of solid surfaces in hydrogen environment	Fjodor Sergejev	Tallinn University of Technology, Estonia
11:20-11:40	Microscopic Oxygen Exchange Properties of CGO-LSCF Composites	John William Druce	Imperial College London, UK
11:40-12:00	Nano Electrochemistry in Energy Conversion Devices	Joong Sun Park	Stanford University, USA

Free of charge, Registration Not required

For inquiry : Research Support and International Affairs division

International Institute for Carbon-Neutral Energy Research

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