



International Institute for Carbon-Neutral Energy Research (I²CNER)

I²CNER Workshop

Date : February 4, Friday, 2011

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.

Following our Institute’s kick-off symposium to be held on February 1, 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 :

Session 1 : 9:30-11:10

***All presentations will be given in English.**

Time	Theme	Presenter	Affiliation
9:30-9:50	Direct analysis of dynamic processes in energy-converting materials	Pance Naumov	Osaka University
9:50-10:10	Bio-inspired Model Compounds for Oxygen Activation and Reduction	Jin-Gang Liu	IMCE, Kyushu University
10:10-10:30	Novel nanostructured Mg-based materials for hydrogen storage	Huaiyu Shao	ScienMax-Planck-Institut für Kohlenforschung, Germany
10:30-10:50	Microstructure Analysis on Hydrogen Storage Materials	Junko Matsuda	National Institute of Advanced Industrial Science and Technology
10:50-11:10	Interaction of hydrogen atoms with dislocations and vacancies in austenitic steel after gaseous hydrogen charging (low frequency internal friction study)	Vladyslav Shyvaniuk	Kyushu University, International Research Center for Hydrogen Energy Research associate professor (HYDROGENIUS project)

Session 2 : 13:15—14 : 15

13:15-13:35	The experimental study of CO ₂ behavior in porous sandstone. A basic study for geological CO ₂ storage	Keigo Kitamura	Research Institute of Innovative Technology for the Earth
13:35-13:55	Effects of CO ₂ sorption on rocks and coals in storing CO ₂ processes	Takashi Fujii	Fracture and Reliability Research Institute (FRI) in Tohoku University
13:55-14:15	Strategies for environmental monitoring of CO ₂ ocean sequestration	Kiminori Shitashima	Central Research Institute of Electric Power Industry

Session 3 : 15 : 20—16:40

15:20-15:40	Ionic Mass Transfer in Electrochemical System	Kei Nishikawa	Japan Aerospace Exploration Agency
15:40-16:00	Nitrogen-doped carbon as an oxygen reduction catalyst	Stephen Lyth	Tokyo Institute of Technology
16:00-16:20	Model systems for solid oxide fuel cell materials design	Sean Bishop	Massachusetts Institute of Technology, USA
16:20-16:40	Evaluation of sulfonated polyimide membranes stabilized by charge transfer complex formation	Masamichi Nishihara	Institute for Materials Chemistry and Engineering, Kyushu University

Free of charge, Registration Not required

60 seats available

For inquiry : Research Support and International Affairs division

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