

Title **Discussion on Energy Portfolio of Japan
under a New Myth**

Speaker **Dr. Makoto AKAI**
Fellow Research Scientist, National Institute of Advanced
Industrial Science and Technology (AIST)
Professor, Tokyo Institute of Technologies
Board Director, Global Carbon Capture and Storage Institute



Date & Time **Friday, Sept. 28, 2012 4:00 p.m.**

Place **INAMORI Hall, Ito campus, Kyushu University**

Abstract

Since March 11, 2012 when the Great East Japan Earthquake and the severe accident of the Fukushima-1 Nuclear Power Station occurred, the Government of Japan has devoted its efforts to the recovery and reconstruction of those damaged areas. Under the circumstances, Japan's mid- and long term energy and environmental strategy needs to be totally reviewed in cooperation with the Energy and Environment Council, which is formulating an "Innovative Strategy for Energy and the Environment."

When considering the past commitment on the mid- to long-term GHG reduction target as well as prevailing public opinion towards the increase of renewable power while decreasing of nuclear power, there is a growing importance of the fossil power coupled with carbon dioxide capture and storage (CCS) technologies.

The lecture summarizes the development of energy and environmental strategies before and after Fukushima accident and the significance of CCS technology in an energy portfolio.

About the Speaker

Dr. Makoto Akai obtained academic B.S. in Mechanical Science and Engineering, M.S. and Ph.D. degrees in Nuclear Engineering from Tokyo Institute of Technology (Japan) in 1973, 1975 and 1980 respectively. After joining the Mechanical Engineering Laboratory, Agency of Industrial Science and Technology, Ministry of International Trade and Industry (MITI) in 1980, he was engaged in modeling of turbulent two phase flow, development of components such as high temperature heat exchanger and coal combustor, development of ultra high speed X-ray tomography for two phase flow measurement, etc. for 80's. In late 80's, he proposed a concept of Carbon Dioxide Capture and Sequestration (CCS) technology as a countermeasure toward Climate Change problem and has been carrying out relevant studies. From 90's, his research topics has shifted to socio-economic aspects of energy technologies, which include Life Cycle Assessment (LCA), energy system analysis including hydrogen energy system, CCS, etc., energy modeling, evaluation of externalities of energy system, etc. Following the reconstruction of Japanese Government (April 2001), he joined National Institute of Advanced Industrial Science and Technology (AIST).

Currently, most of his time except research is devoted to lead and contribute to the development of energy and environmental strategy by METI and/or the Ministry of Environment.

Host: Professor Kuniaki HONDA

For registration, please visit our website:<http://i2cner.kyushu-u.ac.jp/>

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