

**Title** CCS for Sustainable Future

**Speaker** Prof. Toshifumi Matsuoka  
 Professor emeritus, Kyoto University



**Date & Time** Monday, June 20, 2016 10:00 a.m.

**Place** I<sup>2</sup>CNER Hall, Ito campus, Kyushu University

### Abstract

CCS (Carbon dioxide Capture and Storage), that substantial quantities of CO<sub>2</sub> can be injected into subsurface porous rock formations, has been well accepted as the most effective way to reduce the greenhouse gas CO<sub>2</sub> from atmosphere. Already several CCS sites are injecting more than one million ton CO<sub>2</sub> per year. Also CCS is a typical multi-disciplinary engineering including Physics for prediction CO<sub>2</sub> flow under the ground, Chemistry for CO<sub>2</sub> separation at coal electric power plant, and Geoscience for CCS site selection. The presentation will give an overview of CCS and introduce the application of NanoGeoscience into CCS technology.

### About the Speaker

Professional Experience:

1975 – 1982 Exploration Geophysicist, Japex (Japan Petroleum Exploration Co. Ltd.)

1982 – 1985 Visiting Researcher, University of British Columbia

1985 – 1998 Research Geophysicist, Japex

1998 – 2001 Associate Professor, Kyoto University

2001 – 2015 Professor of Engineering Geology, Kyoto University

2015 – Present: Vice President, Fukada Geological Institute

**Host:** Assoc.Prof. Takeshi Tsuji

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

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