

**Title**                    **Why energy storage system is needed  
using hydrogen in the future**

**Speaker**                **Dr. Masanori MONDE**  
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**Date & Time**        **Friday, July 15, 2011 4:00p.m.**

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

#### **Abstract**

Hydrogen has been intensively attractive and focused as one of the energy storage materials from the points that hydrogen can be produced by many different processes and then efficiently converted into electricity using different kind of fuel cell systems. From the environmental point of view and then nuclear plant issue, renewable energies are increasingly introduced. But those characteristics usually need energy storage system. Then, we focus on how hydrogen is stored, especially on high pressure storage, which will be required for fuel cell vehicles to widespread among the general public from 2015 and discuss an issue from the thermal engineering point of view.

#### **About the Speaker**

- 1976, May: Graduate of doctor course of the University of Tokyo, Department of Mechanical Engineering,
- 1989, April: Professor, Dept. of Mechanical Engineering, Saga University
- 2002, April: Director, Institute of Ocean Energy in Saga University  
Continuity of this position until now
- 2005: The 2005 Best Paper Award from Heat Transfer Division in ASME
- 2008: Associate member of Science Council of Japan
- 2009: Scientific council member of International center of heat and mass transfer (ICHMT)

**Host: Professor Yasuyuki TAKATA**

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