

# Workshop on Thermal Issues for Hydrogen Energy Systems

## 水素・燃料電池システムの熱問題に関するワークショップ

Time & Date: 9:50~16:40, February 2 (Thu.), 2012

Venue: 2nd Floor of CE40 Building, Kyushu University Ito Campus

### Program

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- 9:50-10:00      Opening Remarks: Yasuyuki Takata, Kyushu University
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- 10:00-11:50**      Chairman: Kohei Ito, Kyushu University
1. 10:00-10:50    **Keynote Lecture 1 :**  
**Solar-hydrogen System and Solar-hydrogen Storage (Tentative)**  
Yong X. Tao, University of North Texas
2. 10:50-11:10    **PVT Property Measurements of Hydrogen at High Temperatures and High Pressures up to 773 K and 100 MPa by the Isochoric Method**  
Naoya Sakoda, Kyushu University
3. 11:10-11:30    **Measurements of Hydrogen Viscosity in the Range of Room Temperature up to 500 C, and Pressures up to 100 MPa with a Capillary Tube Method**  
Elin Yusibani, HYDROGENIUS
4. 11:30-11:50    **Development of Measurement Apparatus for Sound Speed of Hydrogen with Spherical Resonator**  
Tomohiko Yamaguchi, Nagasaki University
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- 11:50-13:00      **Lunch**
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- 13:00-15:00**      Chairman: Tomohiko Yamaguchi, Nagasaki University
5. 13:00-13:50    **Keynote Lecture 2 :**  
**Experimental and Theoretical Investigation of Mass Transport in GDL of PEM Fuel Cells**  
Sushanta K. Mitra, University of Alberta
6. 13:50-14:40    **Keynote Lecture 3 :**  
**Laser and Optical Diagnostics for High-Pressure/ Low-Temperature CO<sub>2</sub> Flows**  
Dimitrios C. Kyritsis, University of Illinois at Urbana-Champaign
7. 14:40-15:00    **Experimental Analysis of Hydrogen-gas Dissolving Process into Polymer Electrolyte Membrane by NMR Technique**  
Ryosuke Nagahisa, Kyushu University
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- 15:00-15:10      **Break**
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- 15:10-16:40**      Chairman: Naoya Sakoda, Kyushu University
8. 15:10-16:00    **Keynote Lecture 4 :**  
**High Capacity Hydrogen Storage in Cryogenic Pressure Vessels**  
Salvador M. Aceves, Lawrence Livermore National Laboratory
9. 16:00-16:20    **Frost Point Measurements and Estimation for H<sub>2</sub>+H<sub>2</sub>O Systems**  
Kenji Ishida, Saga University
10. 16:20-16:40    **Database for Thermophysical Properties of Hydrogen - Application for Engineering Calculation Softwares -**  
Satoru Momoki, Nagasaki University

\*Program and speakers may change without prior notice.