



INTERNATIONAL INSTITUTE FOR CARBON-NEUTRAL ENERGY RESEARCH

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## THERMAL ISSUES FOR HYDROGEN AND RELATED ENERGY SYSTEMS (THERMAL SCIENCE AND ENGINEERING DIVISION)

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DATE: THURSDAY, FEBRUARY 4, 2016

TIME: 9:50 AM – 5:30 PM

VENUE: CONFERENCE ROOM, 2F I<sup>2</sup>CNER

Time	Speaker	Title
9:50 am - 10:00 am	Yasuyuki Takata (Kyushu University)	Opening Remarks
10:00 am - 10:40 am	Srinivasa Murthy Srikantiah (Indian Institute of Science)	Thermal Issues Related to Hydrogen as Energy Storage Medium: Application of Metal Hydrides
10:40 am - 11:10 am	Yukihiro Higashi (Iwaki Meisei University)	Determination of the Critical Point for Low GWP Refrigerant and their Mixtures
11:10 am - 11:40 am	Tohru Nakano (National Institute of Advanced Industrial Science and Technology (AIST))	Realization of the Triple Point of Equilibrium Hydrogen as the Low Temperature Fixed Point of the International Temperature Scale
11:40 am - 12:00 pm	Yutaku Kita (Kyushu University)	Effect of Ambient Water Vapour on Evaporation of Volatile Droplets
12:00 pm - 1:20 pm	Lunch	
1:20 pm – 2:00 pm	Xiaojia Wang (University of Minnesota)	Probing Thermophysical Properties of Micro/nanostructured Materials Using Ultrafast Time-Resolved Magneto-Optical Kerr Effect
2:00 pm - 2:30 pm	Junko Morikawa (Tokyo Institute of Technology)	Microscale IR Thermal Imaging: A Novel Instrument for the Measurement of Thermophysical Property

2:30 pm - 2:50 pm	Biao Shen (Kyushu University)	Boiling Heat Transfer Enhancement on Heterogeneous Surfaces with Spatially Varying Wettability
2:50 pm - 3:00 pm	Break	
3:00 pm - 3:30 pm	Nenad Miljkovic (University of Illinois at Urbana-Champaign)	Superhydrophobic Surfaces for Enhanced Anti-Icing
3:30 pm - 3:50 pm	Askounis Alexandros (Kyushu University)	Understanding the Evaporation of Nanofluid Sessile Droplets and Coffee-Stain Formation Mechanism
3:50 pm - 4:10 pm	Yutaka Yamada (Kyushu University)	Curvature Effect of Wettability on Inner and Outer Surface of Carbon Nanotube
4:10 pm - 5:30 pm	Laboratory Tour	