



INTERNATIONAL INSTITUTE FOR CARBON-NEUTRAL ENERGY RESEARCH

**- THERMAL ISSUES FOR HYDROGEN AND NEW REFRIGERANTS
FOR ENERGY SYSTEMS -
HYDROGENIUS AND I²CNER JOINT RESEARCH SYMPOSIUM
I²CNER THERMAL SCIENCE AND ENGINEERING DIVISION
& HYDROGENIUS THERMOPHYSICAL PROPERTIES DIVISION**

DATE: FRIDAY, FEBRUARY 2, 2018

TIME: 9:50 AM – 4:55 PM

VENUE: CONFERENCE ROOM, 2F, I²CNER BLDG. 1

Time	Speaker	Affiliation	Title
9:50-10:00	Yasuyuki Takata	Kyushu University	Opening Remarks
	Chair: Masamichi Kohno, Kyushu University Koji Takahashi, Kyushu University		
10:00-10:40	Shalabh C. Maroo	Syracuse University	Experimental and Molecular Study of Microlayer in Pool Boiling and Thin-Film Evaporation
10:40-11:20	Prashant Valluri	The University of Edinburgh	Watching Sessile Droplets Evaporate: Beautiful (and Never Boring) Phenomena
11:20-11:40	Alexandros Askounis	Kyushu University	Can Ultrathin Water Films Remain Stable in Nanoconfinement?
11:40-12:00	Daniel Orejon	Kyushu University	Coalescence-induced Droplet-jumping Suppression by Microstructures on Superhydrophobic Surfaces
12:00-1:20	Lunch		
	Chair: Bidyut Baran Saha, Kyushu University Yukihiro Higashi, Kyushu University		
1:20-2:00	Emadabathuni Anil Kumar	Indian Institute of Technology Tirupati	Effective Thermal Conductivity of Metal Hydride Beds: Measurement, Simulation and Augmentation
2:00-2:40	Khairul Habib	Universiti Teknologi Petronas (UTP)	Photo Thermoelectric Air Duct Systems for Self-Sustainable Buildings

2:40-3:00	Biao Shen	Kyushu University	Boiling on Surfaces with Heterogeneous Wettability
3:00-3:10	Coffee Break		
	Chair: Harish Sivasankaran, Kyushu University Kan'ei Shinzato, Kyushu University		
3:10-3:40	Kenji Takizawa	National Institute of Advanced Industrial Science and Technology (AIST)	Evaluation of Low Flammability for Next Generation Refrigerants
3:40-4:10	Ryo Akasaka	Kyushu Sangyo University	Current Status and Future Development of a New Fundamental Equation of State for cis-1,1,1,4,4,4-Hexafluoro-2-butene (R-1336mzz(Z))
4:10-4:30	Yutaku Kita	Kyushu University	Drop Mobility on Microtextured Surfaces with Wettability Contrasts
4:30-4:50	Taichi Kuroki	Kyushu University	Temperature Rise of Hydrogen Storage Cylinders by Thermal Radiation from Fire at Hydrogen-Gasoline Hybrid Refueling Stations
4:50-4:55	Naoya Sakoda	Kyushu University	Closing Remarks