

# The Second International Symposium of Integrated Research and Education Center for Energy Conversion, Storage, Saving, and Transport Technologies

The 3rd International Symposium of Research and Education  
Center for Advanced Energy Materials, Devices, and Systems

November 26<sup>th</sup>, 2015 9:00-17:00

Chikushi Hall, C-CUBE 1F,  
Chikushi Campus, Kyushu University,  
Fukuoka, Japan



***Organized by***

Research and Education Center for Advanced Energy Materials,  
Devices, and Systems, Kyushu University

***Co-organized by***

Research and Education Center of Carbon Resources, Kyushu University  
Green Asia Education Center, Kyushu University

# Time Table

9:00 – 09:15	Opening Address Prof. Hideo Nagashima (Director, Research and Education Center for Advanced Energy Materials, Devices, and Systems, Kyushu University, Japan)
<i>Advanced Energy Session</i>	
<i>Chair: Prof. Shigeto Okada</i>	
9:15 – 10:15	“Present and Future of R&D for Solar Cells” Prof. Masafumi Yamaguchi (Toyota Technological Institute, Japan)
10:15 – 10:30	<i>Coffee Break</i>
<i>Chair: Prof. Shiyoshi Yokoyama</i>	
10:30 – 11:15	“Optical Waveguides in Dielectric Crystals by Femtosecond Laser Writing” Prof. Chen Feng (Shangdong University, China)
<i>Chair: Prof. Hirotsugu Kikuchi</i>	
11:15 – 12:00	“Liquid Crystal Devices for TFT-LCDs and Flexible LCDs” Prof. Seung Hee Lee (Chonbuk National University, Korea)
12:00 – 13:30	<i>Lunch Break</i>
<i>Carbon Resources Session</i>	
<i>Chair: Prof. Tatsuro Harada</i>	
13:30 – 14:15	“Materials Science Research Spearheading Challenges Facing the UN Sustainable Development Goals” Dr. Valdemar Prado (Sustainable Green Energy Council, USA) and Ms. Liliana Bucur (Eco Planet Inc., USA)
<i>Chair: Prof. Seong-Ho Yoon</i>	
14:15 – 15:00	“The Challenge of Using Coal and Petroleum Derivatives in Advanced Carbon Materials” Dr. Rosa Menéndez (Instituto Nacional del Carbón, Spain)
15:00 – 15:15	<i>Coffee Break</i>
<i>Chair: Prof. Jun Fukai</i>	
15:15 – 16:00	“Innovative Heat Pump and Heat Storage Systems for Thermal Energy Recovery” Prof. Yoshinori Itaya (Gifu University, Japan)
<i>Chair: Prof. Tsuyoshi Hirajima</i>	
16:00 – 16:45	“Acid Mine Drainage: Sources, Environmental Impacts and Mitigation Approaches” Dr. Carlito Baltazar Tabelin (Hokkaido University, Japan)
16:45 – 17:00	Closing Remarks Prof. Jun-ichiro Hayashi (Director, Research and Education Center of Carbon Resources, Kyushu University, Japan)