

**WPI-I²CNER(Photo&Electrochemical Energy Conversion Division),
Kyushu University –EnMaCh, Kumamoto University,
Joint International Symposium
“Carbon Neutral Energy Production, Conversion, and Storage”**

- 1. Date; February 3, 2016**
- 2. Place; KKR Kumamoto, Conference room**
- 3. Program;**

8:50-9:00 Opening; Tatsumi Ishihara

9:00-9:20 Hideaki Komiyama, Takuma Yasuda, Chihaya Adachi (I²CNER)

“ π -Extended Narrow-Bandgap Oligomers for Solution-Processed Organic Solar Cells”

9:20-9:40 Tomoyasu Hirai, Yuji Higaki, Atsushi Takahara (I²CNER)

“Characterization of Organic Semiconductors by Synchrotron Radiation X-ray”

9:40-10:00 Andrew Gewirth(University of Illinois)

“The identity of the active site in Fe-based non-precious metal oxygen reduction reaction catalysts

10:00-10:20 Naotoshi Nakashima(I²CNER)

“Design and fabrication of durable PEMFC catalysts-Comparison of carbon nanotubes and 3 different carbon black.”

10:20-10:40 Stephen Lyth(I²CNER)

“Doped, Decorated, and Functionalized Nanocarbons for Hydrogen Energy Applications”

10:40-11:00 Nicola Perry(I²CNER)

“Electro-chemo-mechanics for Electrochemical Energy Conversion Materials (tentative)

11:00-11:20 Helena Tellez (I²CNER)

“Relating ionic transport and surface and near-surface chemistry in perovskite oxide electrodes”

11:20-11:40 Shintaro Ida (I²CNER)

“Inorganic nano sheet for water splitting”

11:40-12:00 A. Rockett(University of Illinois)

“Simulation of Charge Transport in Photoelectrochemical Devices”

Lunch at KKR Kumamoto

13:00-13:30 (Plenary) Satoshi Hinokuma(Kumamoto Univ.)
” Ammonia as a Green and Sustainable Fuel”

13:30-14:00 (Plenary)Thomas Lippert (Paul Scherrer Institute)
“Oxynitrides, photocatalysts for visible light”

14:00-14:30 (Plenary) Stephen Skinner(Imperial College London)
“Fast ion conductivity in structurally modulated oxides”

14:30-15:00 Coffee Break

15:00-15:25 (Invited) Masato Machida (Kumamoto University)
”Research Activity of EnMaCh in Kumamoto University”

15:25-15:50 (Invited) Tetsuya Kida (Kumamoto University)
“Photosensitization of polyoxometallates with light-harvesting antenna”

15:50-16:10 Ken Sakai (I²CNER)
“Experimental and Theoretical Studies of Molecular Hydrogen Evolution Catalysts”

16:10-16:30 Limin Guo (I²CNER)
“GaP microstructure fabrication by metal assisted chemical etching”

16:30-16:50 Aleksandar Staykov (I²CNER)
“Oxygen activation and dissociation on transition metal free perovskite surfaces.

16:50-17:10 Elif Ertekin(University of Illinois)
“Oxygen evolution reaction on doped and undoped lepidocrocite nanosheets: computational identification of optimal dopant species”

17:10-17:30 Hiroshige Matsumoto(I²CNER)
“Water Electrolysis Using Proton Conducting Metal Oxides”

17:30-17:40 Closing: Hiroshige Matsumoto

(Leave site at 18:00 Arrive Hotel at 19:00)