



INTERNATIONAL INSTITUTE FOR CARBON-NEUTRAL ENERGY RESEARCH

**-HYDROGEN ACTIVATION FOR EFFICIENT MATERIALS  
TRANSFORMATION-  
I<sup>2</sup>CNER INTERNATIONAL WORKSHOP  
CATALYTIC MATERIALS TRANSFORMATIONS DIVISION**

DATE: FRIDAY, FEBRUARY 2, 2018

TIME: 12:55 PM-5:15 PM

VENUE: I<sup>2</sup>CNER HALL A

CO-SPONSOR: CENTER FOR SMALL MOLECULE ENERGY, KYUSHU UNIVERSITY

Time	Speaker	Affiliation	Title
12:55-1:00	Prof. Miho Yamauchi	I <sup>2</sup> CNER, Kyushu University	Opening remarks
1:00-1:35	Prof. Chang Ho Chol	Chuo University	Photo-induced Hydrogen Transfer <i>via</i> Redox-active Ligand
1:35-1:50	Prof. Tatsuya Uchida	I <sup>2</sup> CNER, Kyushu University	Catalytic Dehydrogenation using Oxygen as a Hydrogen Acceptor
1:50-2:25	Prof. Kyungsu Na	Chonnam National University	Catalytic Conversion of C1 Feedstocks to Value-Added Chemicals using Nanostructured Catalysts
2:25-2:40	Coffee break		
2:40-3:15	Prof. Hideaki Ogata	Hokkaido University	Hydrogen activation by hydrogenases
3:15-3:30	Dr. Miho Isegawa	I <sup>2</sup> CNER, Kyushu University	DFT Study on Fe(IV)-Peroxo Formation and H-Atom Transfer Triggered O <sub>2</sub> Activation in a Bio-Inspired Model of [NiFe]-Hydrogenase
3:30-4:05	Dr. Takanori Shima	Riken	Molecular Multimetallic Polyhydrides: Activation and Functionalization of Dinitrogen and Aromatics
4:05-4:20	Coffee break		
4:20-4:35	Prof. Yukina Takahashi	I <sup>2</sup> CNER, Kyushu University	Site-selective Nanoscale-photopolymerization on Gold Nanoparticles via Plasmon Induced Charge Separation
4:35-5:10	Dr. Yong Nam Choi	KAERI	Hydrogen Storage by Catalytic Ionic Hydrogenation
5:10-5:15	Prof. Ki-Seok Yoon	I <sup>2</sup> CNER, Kyushu University	Closing remarks