



INTERNATIONAL INSTITUTE FOR CARBON-NEUTRAL ENERGY RESEARCH

RECENT PROGRESS IN BIO-INSPIRED CATALYSIS AND UTILIZATION OF EARTH-ABUNDANT RESOURCES

I²CNER INTERNATIONAL WORKSHOP
(I²CNER CATALYTIC MATERIALS TRANSFORMATIONS DIVISION AND
THE KU CENTER FOR SMALL MOLECULE ENERGY)

DATE: THURSDAY, FEBRUARY 4, 2016

TIME: 12:55-17:15

VENUE: I²CNER HALL A

Time	Speaker	Title
12:55-13:00	M. Yamauchi	Opening remarks
13:00-13:30	S. Ogo & Y. Shiota <Invited>	Management of small molecule energy & Theoretical study of methane activation by metal-oxo species
13:30-14:00	T. B. Rauchfuss & L. De Gioia <Invited>	Hydrides and [FeFe]-hydrogenases: Models vs reality & Comparison of H ₂ oxidation in [FeFe]-hydrogenases and biomimetic models highlights key stereoelectronic features for catalysis
14:00-14:20	T. Matsumoto <Invited>	Molecular fuel cell
14:20-14:40	Break	
14:40-15:10	K. Shimizu <Plenary>	Cooperative catalysis of Lewis acid and Pt cluster for hydrogenation of carboxylic acids, amides and CO ₂
15:10-15:30	M. Yamauchi	Clean alcohol synthesis via electrochemical reaction of carboxylic acid and water
15:30-15:50	T. Uchida <Invited>	The frontier of C-H functionalization: Ru-catalyzed asymmetric C-H amination
15:50-16:10	Break	
16:10-16:40	S. Saito <Plenary>	Catalytic hydrogen management: salt-free transformation of inert compounds to carbon feedstock
16:40-17:10	N. Dummer <Plenary>	Methanol synthesis from glycerol: a New opportunity for bio-based industries
17:10-17:15	S. Ogo	Closing remarks