

TU/e -ICAT Joint International Symposium on Catalysis for Sustainable Society

Organizer:

Inorganic Materials Chemistry, Eindhoven University of Technology, The Netherlands

Institute for Catalysis (ICAT), Hokkaido University (HU), Japan

Chair:

Emiel Hensen (TU/e), e.j.m.hensen@tue.nl

Kenichi Shimizu (ICAT, HU) Email: kshimizu@cat.hokudai.ac.jp

Conference Venue

Zwarte Doos, Eindhoven

Registration fee: free

Date: November 3, 2017

Program

November 2, (Thursday) 2017

Afternoon: Tour of the laboratories (Please meet at the hotel lobby at 2:30 PM.)

Speakers dinner@Flo restaurant in Holiday Inn

November 3, (Friday) 2017

8:30-8:35	Opening address	Kiyotaka Asakura (ICAT)
8:35-8:40	Welcome address	Emiel Hensen (Eindhoven University of Technology)
Chair: Emiel Hensen (TU/e)		
8:40-9:20	Atsushi Fukuoka (ICAT)	
	"Conversion of cellulosic biomass by heterogeneous catalysts"	
9:20-10:00	Dirk DeVos (KU Leuven)	
	"Selective defunctionalization of N-containing biobased molecules"	
10:00-10:20	Pieter Bruijninx (Utrecht University)	
	"Catalyst development for the valorization of biomass-derived platform molecules"	
10:20-10:30	Coffee	
Chair: Atsushi Urakawa (ICIQ)		
10:30-10:50	Kiyotaka Nakajima (ICAT)	
	"Lewis acid-base catalysis for sugar conversion"	
10:50-11:10	Tim Noel (TUE)	
	"Innovation in catalytic methodology development through flow chemistry"	
Chair: Dirk DeVos (KU Leuven)		
11:10-11:30	Kenichi Shimizu (ICAT)	
	"Catalytic reductive transformations of carboxylic acid derivatives and CO ₂ "	

11:30-12:10	Atsushi Urakawa (ICIQ)	
	"Hunting surface intermediates and active sites in carbon dioxide conversion catalysis"	
12:10-13:20	Lunch	
	Chair: Kiyotaka Asakura (ICAT)	
13:20-14:00	Marc Koper (Leiden)	
	"Electrocatalysis for a sustainable society"	
14:00-14:20	Jan Philipp Hofmann (Eindhoven)	
	"Transition metal sulfides for chemical energy conversion"	
	Chair: Evgeny Pidko (Delft)	
14:20-14:40	Shinya Furukawa (ICAT)	
	"Catalytic chemistry of ordered alloys"	
14:40-15:00	Kiyotaka Asakura (ICAT)	
	"Ultra-Fast XAFS for the Local Structure Analysis of Photocatalysts."	
15:00-15:20	Coffee	
	Chair: Jorge Gascon (Delft, KAUST)	
15:20-16:00	Emiel Hensen (TUE)	
	"The hydrocarbon pool mechanism of methane aromatization on Mo/ZSM-5"	
16:00-16:20	Evgeny Pidko (Delft)	
	"Mechanistic complexity behind the selective oxidation of methane over single-site zeolite and MOF-based catalysts"	
16:20-16:30	Coffee	
	Chair: Takashi Toyao (ICAT)	
16:30-17:10	Ryu Abe (Kyoto Univ.)	
	"New Mixed Anion Photocatalysts for Visible Light Induced Water Splitting"	
17:10-17:50	Jorge Gascon (Delft, KAUST)	
	"From single atom to nanoparticle based heterogeneous catalysts using MOFs and COFs"	
17:50-18:00	Closing remarks	Atsushi Fukuoka (ICAT)
18:00-19:00	Poster	
19:30-	Banquet@Flo restaurant in Holiday Inn	