



DESCRIPTION

Under a new incentive to foster discussions on catalysis for sustainable society, the Institute of Catalysis (Hokkaido, Japan) and Eindhoven University of Technology will be holding a joint international symposium on the above theme in Eindhoven on 3 November 2017.

Where: de Zwarte Doos, TU/e campus, Eindhoven

Program:

8:30-8:35 Opening address **Kiyotaka Asakura (ICAT)**

8:35-8:40 Welcome address **Emiel Hensen (Eindhoven University of Technology 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 break

10:30-10:50 **Kiyotaka Nakajima (ICAT)** "*Lewis acid-base catalysis for sugar conversion*"

10:50-11:10 **Tim Noel (TU/e)** "*Innovation in catalytic methodology development through flow chemistry*"

11:10-11:30 **Kenichi Shimizu (ICAT)** "*Catalytic reductive transformations of carboxylic acid derivatives and CO₂*"

11:30-12:10 **Atsushi Urakawa (The Barcelona Institute of Science and Technology)** "*Hunting surface intermediates and active sites in carbon dioxide conversion catalysis*"

12:10-13:20 Lunch break



13:20-14:00 **Marc Koper (Leiden University)** *"Electrocatalysis for a sustainable society"*

14:00-14:20 **Jan Philipp Hofmann (TU/e)** *"Transition metal sulfides for chemical energy conversion"*

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 break

15:20-16:00 **Emiel Hensen (TU/e)** *"The hydrocarbon pool mechanism of methane aromatization on Mo/ZSM-5"*

16:00-16:20 **Evgeny Pidko (TUDelft)** *"Mechanistic complexity behind the selective oxidation of methane over single-site zeolite and MOF-based catalysts"*

16:20-16:30 Coffee break

16:30-17:10 **Ryu Abe (Kyoto University)** *"New Mixed Anion Photocatalysts for Visible Light Induced Water Splitting"*

17:10-17:50 **Jorge Gascon (TUDelft, 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 session

19:30- Social program at restaurant Flo in Holiday Inn

This symposium is being organized by Prof Dr Emiel Hensen (Inorganic Materials Chemistry(IMC), Eindhoven University of Technology, The Netherlands) and Prof Dr Kenichi Shimizu (Institute for Catalysis (ICAT), Hokkaido University, Japan)