



DICP Symposium (No.44) on International Young Scientist Symposium on Catalytic Biomass Conversion (IYCBC)

Conference Chairman:

Feng Wang, Dalian Institute of Chemical Physics, CAS
Carsten Sievers, Georgia Institute of Technology

July 16, Sunday			
12:00-12:30	Pickup at Hotel	11:40-12:10	Synthesis of jet fuel range cycloalkanes with lignocellulosic platform compounds <u>Prof. Ning Li</u> Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China
12:30-	Lunch	12:10-13:30	Lunch
14:30-14:40	Opening Ceremony	Session Chair: Prof. Ning Yan/ Prof. Pieter Bruijninx	
Session Chair: Prof. Carsten Sievers/ Prof. Fuwei Li		13:30-14:00	Strategies for the conversion of biomass to biobased chemicals <u>Prof. Thomas Schwartz</u> University of Maine, USA
14:40-15:10	Selective conversion of cellulose into C ₂ -C ₄ alcohols on solid catalysts <u>Prof. Haichao Liu</u> Peking University, China	14:00-14:30	Catalytic conversion of biomass to fine chemicals and fuels <u>Prof. Yanqin Wang</u> East China University of Science and Technology, China
15:10-15:40	Direct catalytic conversion of lignocellulose to ethylene glycol <u>Prof. Mingyuan Zheng</u> Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China	14:30-15:00	Oxidative chemistries for levulinic acid conversion: finding opportunities for biomass in an age of inexpensive hydrocarbons <u>Prof. Jesse Bond</u> Syracuse University, USA
15:40-15:50	Coffee Break	15:00-15:30	Hydrogenation of 5-HMF through Homogeneous Catalysis <u>Dr. Zhanwei Xu</u> Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China
15:50-16:20	Targeted catalytic upgrading of simplified streams produced from staged biomass degradation <u>Prof. Steven Crossley</u> University of Oklahoma, USA	15:30-16:00	Photo Taking and Coffee Break
16:20-16:50	Development of heterogeneous catalysts for hydrogenation of biomass-derived carboxylic acids <u>Prof. Masazumi Tamura</u> Tohoku University, Japan	16:00-16:30	Platform molecules from the carbohydrate and lignin fractions of lignocellulosic biomass: on advanced feed characterization and catalyst development <u>Prof. Pieter Bruijninx</u> Utrecht University, Netherlands
16:50-17:20	Converting of lignin into aromatics by tungsten carbide <u>Prof. Changzhi Li</u> Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China	16:30-17:00	Catalytic conversion of lignin to aromatic hydrocarbons <u>Prof. Chen Zhao</u> East China Normal University, China
17:20-	Dinner (invited only)	17:00-17:30	Renewable bubbles, bottles and (rubber) bands from biomass <u>Prof. Paul Dauenhauer</u> University of Minnesota, USA
July 17, Monday		17:30-	Dinner
08:00-08:30	Pickup at Hotel	July 18, Tuesday	
Session Chair: Prof. Haichao Liu/ Prof. Paul Dauenhauer		08:00-08:30	Pickup at Hotel
08:30-09:00	Spectroscopic studies of heterogeneously catalyzed processes for biomass conversion <u>Prof. Carsten Sievers</u> Georgia Institute of Technology, USA	Session Chair: Prof. Yanqin Wang/ Prof. Joseph Samec	
09:00-09:30	Catalytic transformation of cellulose and its derivatives into organic acids <u>Prof. Weiping Deng</u> Xiamen University, China	08:30-09:00	Strong metal-support interaction or "overcoat" enabled catalysts for efficient transformation of biomolecules <u>Prof. Fuwei Li</u> Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences, China
09:30-10:00	Lignocellulosic fractionation by a tandem organosolv pulping and metal-catalyzed transfer hydrogenolysis <u>Prof. Joseph Samec</u> Stockholm University, Sweden	09:00-09:30	The importance of puckering in carbohydrate conversion: It's elementary <u>Prof. Heather Mayes</u> University of Michigan, USA
10:00-10:30	The importance of hydrogen bonds in biomass conversion <u>Prof. Fang Lu</u> Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China	09:30-10:00	Catalytic conversion of lignin models and extracts into oxygenates <u>Prof. Feng Wang</u> Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China
10:30-10:40	Coffee Break	10:00-10:10	Coffee Break
10:40-11:10	An integrated, flexible biorefinery process based on formic acid <u>Prof. Ning Yan</u> National University of Singapore, Singapore	10:10-12:00	Discussions (Prof. Feng Wang/ Prof. Carsten Sievers)
11:10-11:40	Molecular-level insights into how the structure of liquid water influences the catalysis of sugar alcohol conversions in aqueous phase heterogeneous catalysis <u>Prof. Rachel B. Getman</u> Clemson University, USA	12:00-13:00	Lunch
		13:00-17:00	Lab visit
		17:00-	Dinner, End of the symposium and departure

Time: July 16 - July 18, 2017

Location: Conference Room of Basic Energy Building in DICP

Sponsor: Dalian Institute of Chemical Physics, Chinese Academy of Sciences



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