

PROGRAM

Sunday, April 22, 2006

Afternoon:	Arrivals, Registration, Check-in
16:00-18:00	Visiting State Key Laboratory of Physical Chemistry of Solid Surfaces
18:00-19:30	Welcome Reception
19:30-22:00	Poster Session

PROGRAM

Monday, April 23, 2006

8:00-8:20	OPENING
<u>8:20-9:50</u>	<u>Session Chair: Masatake Haruta, Can Li</u>
	<i>Takashi Tatsumi, Tokyo Institute of Technology</i>
8:20-8:50	Synthesis, crystallization mechanism and catalytic properties of Ti-rich TS-1
	<i>Xinhe Bao, Dalian Institute of Chemical Physics, CAS</i>
8:50-9:20	Synergetic Confinement of Carbon Nanotube and the Encapsulated Metallic Nano-particles
	<i>Wataru Ueda, Hokkaido University</i>
9:20-9:50	Synthesis, structure and high catalytic oxidation performance of crystalline Mo₃VO_x catalysts
9:50-10:20	Photo and Tea Time
<u>10:20-12:15</u>	<u>Session Chair: Yasuhiro Iwasawa, Yuan Kou</u>
	<i>Can Li, Dalian Institute of Chemical Physics</i>
10:20-10:50	Enantioselective epoxidation of unfunctionalized olefins on Mn(salen) catalysts immobilized in the nanopores of mesoporous materials

10:50-11:20	<i>Peng Wu, East China Normal University</i> MWW type metallosilicates: preparation and application as environmentally benign catalysts
11:20-11:40	<i>Keigo Kamata, University of Tokyo</i> Catalytic Epoxidation of Olefins with Hydrogen Peroxide by Divacant Silicotungstate
11:40-12:00	<i>Feng Wang, Hokkaido University</i> Catalytic Aerobic Oxidation of Alcohols over Orthorhombic Mo₃VO_x Crystal
12:00-12:15	<i>Akihiro Yoshida, University of Tokyo</i> Efficient Baeyer-Villiger Oxidation with Hydrogen Peroxide Catalyzed by Novel S-shaped Polyoxometalate
12:15-13:45	Lunch

PROGRAM

Monday, April 23, 2006	
<u>13:45-15:40</u>	<u>Session Chair: Tsunehiro Tanaka, Chak Tong Au</u>
13:45-14:15	<i>Tokuo Matsuzaki, UBE industries</i> Gas phase oxidative CO coupling reaction using methyl nitrite
14:15-14:45	<i>Weiping Ding, Nanjing University</i> Mesoporous Iron Phosphate: Controllable Synthesis, Characterization, and Catalytic Properties
14:45-15:05	<i>Yuan Kou, Peking University</i> Aqueous phase aerobic oxidation of alcohols by PVP-stabilized Pt nanocluster catalysts
15:05-15:25	<i>Mizuki Tada, The University of Tokyo</i> Zeolite-Supported Re-Cluster Catalysts for Direct Phenol Synthesis
15:25-15:40	<i>Toru Murayama, Tokyo Institute of Technology</i> Neutral H₂O₂ Synthesis by Electrolysis of Water and Air
15:40-16:00	Tea Time

<u>16:00-18:00</u>	<u>Session Chair: Kiyotaka Asakura, Peng Wu</u>
	<i>Ichiro Yamanaka, Tokyo Institute of Technology</i>
16:00-16:30	Oxidation of Alkane with O₂ and H₂ by Eu-Ti-Pt Catalyst
	<i>Zhaoyin Hou, Zhejiang University</i>
16:30-16:50	Oxy-reforming of methane on different sized Ni catalysts in a fluidized bed reactor
	<i>Youzhu Yuan, Xiamen University</i>
16:50-17:10	Ti-mesocellular silica foams (Ti-MCF) supported gold catalysts for gas-phase epoxidation of propylene using H₂ and O₂
	<i>Tetsuya Shishido, Kyoto University</i>
17:10-17:40	Liquid phase photooxidation of alcohol over niobium oxide without solvents
	<i>Zhaohui Zhou, Xiamen University</i>
17:40-18:00	Anderson-Evans type molybdotellurates as precursors of MoTeO catalysts in selective oxidation of propene to acrolein
18:45-	Dinner

PROGRAM

Tuesday, April 24, 2006

<u>8:00-10:00</u>	<u>Session Chair: Wataru Ueda, Xinhe Bao</u>
	<i>Yasuhiro Iwasawa, The University of Tokyo</i>
8:00-8:30	Surface-mediated visible-light photo-oxidation on pure TiO₂(001)
	<i>Chak Tong Au, Hong Kong Baptist University</i>
8:30-9:00	Effect of modifying SBA-15 with alkaline earth metal oxides on the performance of supported VO_x in oxidative dehydrogenation of <i>n</i>-butane
	<i>Tsunehiro Tanaka, Kyoto University</i>
9:00-9:30	Photoassisted NO Selective Catalytic Reduction (Photo-SCR) with Ammonia

9:30-10:00 *Mikhail Yu. SINEV, N.N. Semenov Institute of Chemical Physics*
Oxidative transformations of light alkanes: challenges and opportunities

10:00-10:20 Tea Time

10:20-12:15 Session Chair: Tokuo Matsuzaki, Boping Xu

Kiyoshi Otsuka, Tokyo Institute of Technology
 10:20-10:50 **Hydrogen and Organic Acids from Biomass**

Xin Xu, Xiamen University
 10:50-11:20 **Developing Selective Oxidation Catalysts of Light Alkanes: From Fundamental Understanding to Rational Design**

Jie Xu, Dalian Institute of Chemical Physics
 11:20-11:40 **Design and synthesis of bifunctionalized mesoporous silicas for selective oxidation of cyclohexane**

Weizheng Weng, Xiamen University
 11:40-12:00 **In situ Microprobe Raman and XRD Studies on the Methane Partial Oxidation to Synthesis Gas over Supported Noble Metal Catalysts**

Hirokazu Kobayashi, Tokyo Institute of Technology
 12:00-12:15 **Efficient Oxidation of Alkane with O₂ under Mild Conditions**

12:15-13:45 Lunch

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Tuesday, April 24, 2006

13:45-15:40 Session Chair: Ichiro Yamanaka, Weiping Ding

Masatake Haruta, Tokyo Metropolitan University
 13:45-14:15 **Active Sites in Heterogeneous Catalysis by Gold**

Zhen Zhao, China University of Petroleum
 14:15-14:45 **SBA-15 mesoporous zeolite-supported alkali metal oxides: A novel type of catalysts for the selective oxidation of low alkane**

Weijie Ji, Nanjing University
 14:45-15:05 **The influence of sort and amount of alcohol(s) in preparation medium on the physicochemical property of VPO catalyst for**

***n*-butane oxidation**

15:05-15:25	<i>Haichao Liu, Peking University</i> Molecular insight into the site requirements for methanol selective oxidation
15:25-15:40	<i>Shin-ichi Okuoka, Kyoto University</i> Dioxygen Reactivity of Low Spin Iron(III) Catechol Complexes
15:40-16:00	Tea Time
<u>16:00-18:10</u>	<u>Session Chair: Tetsuya Shishido, Mikhail Yu. Sinev</u>
16:00-16:30	<i>Kiyotaka Asakura, Hokkaido University</i> Tunable Infrared Free Electron Laser -Induced Reaction on MoO₃
16:30-17:00	<i>Boqing Xu, Qinghua University</i> Selective liquid-phase oxidation of alcohols over gold catalyst: Au size effect
17:00-17:20	<i>Xiaoping Zhou, Hunan University</i> Oxidative Bromonation— A Platform for Light Alkane Conversion
17:20-17:40	<i>Yong Cao, Fudan University</i> A practical grinding-assisted dry synthetic route to nanostructured NiMoO₄ polymorphs highly effective for oxidative dehydrogenation of propane
17:40-18:10	<i>Ye Wang, Xiamen University</i> Oxidative conversions of ethylene and ethane to formaldehyde by oxygen
19:00-	Dinner