

## PROGRAM

Tuesday, July 8, 2008

Afternoon: Arrivals, Registration, Check-in

18:00-20:00 Welcome Reception

## PROGRAM

Wednesday, July 9, 2008

8:00-8:20 OPENING

8:20-9:50 Session Chair: C.Y. Mou, Y. Wang

8:20-8:50 *Invited Lecture : S. Ted Oyama*  
[Transient Technique for Identification of True Reaction Intermediates: Hydroperoxide Species in Propylene Epoxidation on Gold/Titanosilicate Catalysts](#)

8:50-9:20 *Invited Lecture: X. M. Zheng*  
[The Structure Sensitivity of Supported Cobalt Catalysts for Carbon Dioxide Reforming of Methane to Syngas](#)

9:20-9:50 *Invited Lecture : J. C. Védrine*  
[Catalytic oxidative dehydrogenation and selective oxidation of propane on mixed oxides](#)

9:50-10:20 Take Pictures and Tea Time

10:20-11:50 Session Chair: C. Peden, E. Tsang

10:20-10:50 *Invited Lecture : B. H. Davis*  
[Fischer-Tropsch Synthesis: Mechanism Considerations for an Iron Catalyst](#)

10:50-11:20 *Invited Lecture : Y. Kou*  
[New Catalytic Chemistry of Syngas Conversion](#)

11:20-11:50 *Invited Lecture : A. Y. Khodakov*  
[Key Steps in the Design of Cobalt Catalysts for Fischer-Tropsch Synthesis](#)

12:00-14:00 Lunch

## PROGRAM

Wednesday, July 9, 2008

14:00-16:00      Session Chair: J.C. Vedrine, Y. Kou

14:00-14:30      *Invited Lecture : W. T. Tysoe*  
 Probing Reaction Pathways on Model Catalyst Surfaces: Vinyl Acetate  
 Synthesis on Palladium and Gold/Palladium Alloys

14:30-15:00      *Invited Lecture : C. Y. Mou*  
 Au and Au-Ag alloy nanoparticles supported on mesoporous  
 aluminosilicate for CO Oxidation

15:00-15:30      *Invited Lecture : P. Chen*  
 Dehydrogenation of Amide-Hydride Complexes – The Catalytic  
 Modification

15:30-16:00      *Invited Lecture: E. Tsang*  
 New Encapsulated Nano-Catalysts for Water-Gas Shift Reaction from  
 Syngas Mixture

16:00-16:20      Tea Time

16:20-17:40      Session Chair: B.H. Davis, P. Chen

16:20-16:40      *Oral Lecture: H. Y. Li*  
 Carbon Nanotube-promoted Co-Cu or Co-Mo-K Catalysts for Higher  
 Alcohol Synthesis from Syngas

16:40-17:00      *Oral Lecture: P. Samokhin*  
 Mechanisms of dimethyl ether transformations over various catalysts

17:00-17:20      *Oral Lecture: Y. F. Han*  
 Kinetic and Spectroscopic Study of Methane Combustion over  $\alpha$ -Mn<sub>2</sub>O<sub>3</sub>  
 Nanocrystal Catalyst

17:20-17:40      *Oral Lecture: H. Yu*  
 RuO<sub>2</sub>/CNT in liquid-phase aerobic oxidations for green production of  
 chemicals: mechanism and applications

18:00-19:30      Dinner

20:00-22:00      Poster Session

## PROGRAM

Thursday, July 10, 2008

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|--------------------|---|
| <u>8:00-10:00</u>  | <u>Session Chair: S.T. Oyama, Y.Z. Yuan</u>   |
|                    | <i>Invited Lecture: J. M. Basset</i>  |
| 8:00-8:30          | Synthesis of Well-Defined Silica Supported Titanium Complexes-Catalytic Activity for Olefin Epoxidation   |
|                    | <i>Invited Lecture: P. Wu</i>   |
| 8:30-9:00          | Ammonoximation of Ketones over Ti-MWW Catalysts   |
|                    | <i>Invited Lecture: T. Jacob</i>  |
| 9:00-9:30          | Towards an Atomistic Understanding of Electrochemical Interfaces  |
|                    | <i>Invited Lecture : G. X. Li</i>   |
| 9:30-10:00         | A novel catalyst for oxidative carbonylation of aniline: Co-salen /Ti-Si oxides                           |
| 10:00-10:20        | Tea Time  |
| <u>10:20-11:50</u> | <u>Session Chair: T. Jacob, P. Wu</u>   |
|                    | <i>Invited Lecture: S. Yagi</i>   |
| 10:20-10:50        | Fabrication of metal nanoparticles and its characterization with synchrotron radiation                    |
|                    | <i>Invited Lecture: Z. Zhao</i>   |
| 10:50-11:20        | The Design of the Catalysts and Their Catalysis for the Selective Oxidation/Ammonoxidation of Low Alkanes |
|                    | <i>Invited Lecture: J. Y. Lin</i>   |
| 11:20-11:50        | Ethanol Steam Reforming over Rh, Ni, and Co Catalysts   |
| 12:00-14:00        | Lunch   |

## PROGRAM

Thursday, July 10, 2008

|                    |  |
|--------------------|--|
| <u>14:00-16:00</u> | <u>Session Chair: W.T. Tysoe, W.Z. Weng</u>                          |
|                    | <i>Invited Lecture : C. Peden</i>                                    |
| 14:00-14:30        | Fundamental studies of the role of formate hydrogenation in methanol |

synthesis over a Cu/SiO<sub>2</sub> catalyst

*Invited Lecture : Y. H. Sun*

14:30-15:00 Co catalysts for selective Fischer-Tropsch synthesis

*Invited Lecture : H. Lou*

15:00-15:30 Effect of the precipitating agents on coprecipitation impregnated Cu-Zn/zeolite-Y Catalysts for One-Step Dimethyl Ether Synthesis via Syngas

*Invited Lecture: J. Xu*

15:30-16:00 Development of Vanadium Redox Catalysis for Efficient Selective Aerobic Oxidation of Biomass-Derived Alcohols

16:00-16:20 Tea Time

16:20-18:20 Session Chair: A.Y. Khodakov, M.S. Chen

*Invited Lecture: K. Tanaka*

16:20-16:50 Mechanism of selective oxidation of CO in H<sub>2</sub> at low temperature

*Invited Lecture : G. C. Yin*

16:50-17:20 Reactivity difference between oxidatively transition metal hydroxide and metal oxo moiety by a novel manganese catalyst

*Invited Lecture: M. F. Zhou*

17:20-17:50 Probing the Intermediates in the MO + CH<sub>4</sub> ↔ M + CH<sub>3</sub>OH Reactions by Matrix Isolation Infrared Spectroscopy

*Invited Lecture: X. Xu*

17:50-18:20 How Triplet O<sub>2</sub> Dissociates on Metal Oxide Surfaces

18:30- Dinner

## PROGRAM

Friday, July 11, 2008

Visit State Key Laboratory of Physical Chemistry of Solid Surfaces  
Excursion (Gulangyu island)