

北海道大学触媒化学研究センター20周年記念国際シンポジウム

日時 平成21年12月7(月)～9(水)

会場 北海道大学学術交流会館 (札幌市北区北8条西5丁目)

主催 北海道大学触媒化学研究センター

共催 触媒学会

◆1 2月7日(月) 20周年記念講演会

12:00～13:30 ポスター・ミキサー

13:35～17:10 記念講演

17:15～18:00 記念式典

18:30～20:30 祝賀会 <京王プラザホテル札幌>

◆1 2月8日(火) 9:00～17:00 国際シンポジウムI テーマ: **Catalysts and Functional Materials for Energy**

Conversion 17:00～19:00 ポスターセッション

Role of Catalysis in Solid Oxide Fuel Cells (SOFC) and Proton Exchange Membrane Fuel Cells (PEMFC)

Anil V. Virkar (University of Utah)

Development of Low-Temperature Pt-free Fuel Cells

Tatsuya Takeguchi (Hokkaido University)

On the Role of Protons in Surface Structures of Photocatalysts and Other Functional Oxide Materials

Truls Norby (University of Oslo)

Clean Synthesis of Metal and Alloy Nanoparticles Dispersed in Ionic Liquids by a Sputter Deposition Technique

Tsukasa Torimoto (Nagoya University)

- **Memorial Lecture** - Solar energy conversion to hydrogen on semiconducting materials

Kazunari Domen (Tokyo University)

Potential of Nanoscaled Cathode Structures for Solid Oxide Fuel Cells

Ellen Ivers-Tiffée (Universität Karlsruhe)

Studies on Electrochemical Oxygen Reduction Reaction mechanism of Pt/M/C (M = Pd, Au) Core-Shell Catalyst

Yoshiharu Uchimoto (Kyoto University)

PL Emission and Water Photooxidation Reaction at Well-Defined Surface of Rutile-TiO₂ Single Crystal Electrode

Raymond J. Gorte (University of Pennsylvania)

Grain Growth Behavior of Sr-doped LaCoO₃ Films Prepared by a Sol-Gel Process

Takaya Akashi, Chiharu Muraoka, Takeyuki Sawada, Hajime Kiyono and Shiro Shimad

(Hokkaido University)

Exergetic Efficiency and Fuel Cell Degradation

Mark C. Williams

◆1 2月9日(水) 9:00～13:15 国際シンポジウムII テーマ: **Well Defined Surface Structure for Precise**

Reaction Control

Unprecedented Selectivity to the Direct Desulfurization Pathway in a Highly Active FeNiP/SiO₂ Catalyst

S. Ted Oyama (Virginia Polytechnic Institute & State University)

CO Oxidation on Model Catalyst Surfaces

Mingshu Chen (Xiamen University)

Gas-phase Metal Cluster Complexes: Surface Chemistry at the Small Scale

Andre Fielicke (Frits-Haber-Institut der Max-Planck-Gesellschaft)

Epilayer Control of Photocatalysis at Well-defined Oxide Surface and Interface

Yuji Matsumoto (Tokyo Institute of Technology)

Atomically Dispersed Cu Species on a Precovered TiO₂ (110) Surface with Organic Molecules

Wang-Jae Chun (International Christian University)

- **Memorial Lecture** - Variation of Electrode Performance during Operation of Solid Oxide Fuel Cells

Koichi Eguchi (Kyoto University)

14:20 ~ 16:25 テーマ : **Well Defined Electrochemical Interface**

Electrodeposition and Magnetism at the Solid/Electrolyte Interface

Philippe Allongue (CNRS, Ecole Polytechnique)

Real-time Monitoring of Electrodeposition Processes on a Reconstructed Au(111) Surface Studied by STM

Satoru Takakusagi (Hokkaido University)

PL Emission and Water Photooxidation Reaction at Well-Defined Surface of Rutile-TiO₂ Single Crystal Electrode

Akihito Imanishi (Osaka University)

参加費：無料（但し、祝賀会参加希望者は当日会場ホテルにて 7,000 円をお支払い下さい）

参加申込み：事前申込み不要

ポスター発表のお申込みやその他詳細は URL : <http://www.cat.hokudai.ac.jp/event.html> でご確認下さい。

問合せ先：北海道大学触媒化学研究センター上田研究室 E-mail: sakura@cat.hokudai.ac.jp

Tel 011-706-9162 Fax 011-706-9163