

**CRC International Symposium:**  
**Catalysis and Technology for Green Innovation**  
**March 17 (Mon), 2014**

Conference Room (Sousei Building 5th Floor)  
Hokkaido University, N-21 W-10, Kita-ku, Sapporo 001-0021 Japan

9:00-                    *Registration Open*

9:25-9:30            Opening Remark (A. Fukuoka, Director of CRC, Hokkaido Univ.)

Chair: W. Ueda, Hokkaido Univ,

9:30-10:05           S. C. Edman Tsang            Oxford Univ.

Development of Nanomaterials for High Performance Green Catalysis

10:05-10:40        Kenichi Kato                    RIKEN

SR Diffraction Probe for Energy-Related Materials

----- *Coffee Break* -----

Chair: K. Shimizu, Hokkaido Univ,

11:00-11:35        Miho Yamauchi                Kyushu Univ.

Development of Iron-group-nanoalloy catalysts for selective oxidation of ethylene glycol to oxalic acid in alkaline media

11:35-12:10        Etsushi Tsuji                   Hokkaido Univ.

Catalytic Activity of Non-stoichiometric Transition Metal Oxides for Oxygen Reduction/Evolution Reactions

----- *Lunch Time* -----

Chair: K. Hara, Hokkaido Univ.

13:15-13:50        Tatsuya Takeguchi            Hokkaido Univ. ; Iwate Univ.

Solid Alkaline Inorganic Fuel Cell to Materialize a Clean Energy Cycle

13:50-14:25        Aleksandar Staycov            Kyushu Univ.

Immobilizing Metal Nanoparticles on Single Wall Nanotubes. Effect of Surface Curvature

14:25-15:00            Nobuki Ozawa            Tohoku Univ.  
First-Principles Study of Oxidation Reaction of Ethylene Glycol on Metal Surface  
in Alkaline Fuel Cell

----- *Coffee Break* -----

Chair: A. Nakayama, Hokkaido Univ,

15:20-15:55            Yoshiharu Uchimoto            Kyoto Univ.  
A High Energy Density Rechargeable Magnesium Battery

15:55-16:30            Momoji Kubo            Tohoku Univ.  
Development of Multi-Physics Simulator Based on First-Principles and  
Tight-Binding Quantum Chemical Molecular Dynamics Methods for Design of  
Chemical Reactions

16:30-16:35            Closing Remark (T. Takeguchi, Hokkaido Univ. ; Iwate Univ.)

Poster Presentations and Banquet Jointed to ***CRC Workshop 2014***  
Science Plaza (Sousei Building 2nd Floor), 17:00-20:00