



# Hokkaido University - University of California, Berkeley Joint Symposium on Chemical Sciences and Engineering

**January 7, 2016**

*Frontier Research in Applied Sciences Building,  
Hokkaido University*

9:15-9:30

Opening Remarks

**Prof. Koichiro Ishimori**

Faculty of Science, Hokkaido University

**Prof. Alexander Katz**

Department of Chemical and Biomolecular Engineering, University of California, Berkeley

9:30-10:00

**Prof. Jeffrey A. Reimer**

Metal Organic Frameworks: Structure, Dynamics, Cooperativity

Department of Chemical and Biomolecular Engineering, University of California, Berkeley

10:00-10:30

**Prof. Kazuki Sada**

Surface Modification and Crystal Cross-Linking of Metal Organic Framework for Emerged Functions

Faculty of Science, Hokkaido University

10:30-10:45

Coffee Break

10:45-11:15

**Prof. David B. Graves**

New Frontiers in Plasma Processing

Department of Chemical and Biomolecular Engineering, University of California, Berkeley

11:15-11:45

**Prof. Toshihiro Shimada**

New Carbon Materials Synthesis from High Energy Processes

Faculty of Engineering, Hokkaido University

13:00-14:45

**Poster Session**

14:45-15:00

Coffee Break

15:00-15:30

**Prof. Alexander Katz**

Molecular Engineering of Catalysts Derived from Zeolites

Department of Chemical and Biomolecular Engineering, University of California, Berkeley

15:30-16:00

**Prof. Atsushi Fukuoka**

Conversion of Cellulosic Biomass by Carbon Catalysts

Institute for Catalysis, Hokkaido University

16:00-16:30

**Prof. Clayton J. Radke**

Salinity Hot Spots in the Tear Film: Why are my Eyes Burny and Dry?

Department of Chemical and Biomolecular Engineering, University of California, Berkeley

16:30-16:45

Coffee Break

16:45-17:15

**Prof. Manabu Tokeshi**

Label-Free Detection of Biomolecules and Production of Functional Nanoparticles Using Micro/Nano Devices

Faculty of Engineering, Hokkaido University

17:15-17:45

**Prof. Bryan D. McCloskey**

Ion Solvation Effects in Nonaqueous Li-O<sub>2</sub> Electrochemistry

Department of Chemical and Biomolecular Engineering, University of California, Berkeley

17:45-18:15

**Prof. Kiyoharu Tadanaga**

Hydroxide Ion Conduction in Layered Double Hydroxides and Their Application to Electrochemical Devices

Faculty of Engineering, Hokkaido University

18:15-18:20

Closing Remarks

**Prof. Hiroki Habazaki**

Faculty of Engineering, Hokkaido University