

The 4th GCOE International Symposium

“Towards a Sustainable Future”

The 13th Hokkaido University – Seoul National University Joint Symposium
The 6th Hokkaido University – Nanjing University Joint Symposium
2010 HU - NU - SNU - NIMS/MANA Joint Symposium

Date: November 26 (Fri) – 27 (Sat) 2010

Venue: Lectures:

Lecture hall (Room 203/303), Building #5, Department of Chemistry,
Graduate School of Science, Hokkaido University

Poster Presentation:

Lobby on the 2nd floor, Building #5, Department of Chemistry,
Graduate School of Science, Hokkaido University

Organizing Committee

Honorary Chair: Norio Miyaura (Emeritus Professor, Hokkaido University)

Chair: Noboru Kitamura (Professor, Hokkaido University)

Co-Chairs: Kohei Uosaki (Emeritus Professor, Hokkaido University; NIMS/MANA)
Tamotsu Takahashi (Professor, Hokkaido University)
Hasuck Kim (Emeritus Professor, Seoul National University)
Huangxian Ju (Professor, Nanjing University)

Program Committee:

Kei Murakoshi (Professor, Hokkaido University)
Hiroki Habazaki (Professor, Hokkaido University)
Bunsho Ohtani (Professor, Hokkaido University)
Jianwei Zhao (Professor, Nanjing University)
Taek Dong Chung (Professor, Seoul National University)

PROGRAM

Day 1 Friday, November 26, 2010

OPENING REMARKS SESSION (Chairperson: Professor Kei Murakoshi)

8:30 Registration and coffee break

9:00 Opening ceremony

Welcome address / Professor Norio Miyaura (HU)

Greeting addresses from each university

Hokkaido University (HU) / Professor Noboru Kitamura

Nanjing University (NU) / Professor Jianwei Zhao

Seoul National University (SNU) / Professor Taek Dong Chung

NIMS/MANA / Professor Kohei Uosaki

SESSION 1 (Chairperson: Professor Yasuchika Hasegawa)

9:30 Plenary 1 Professor Tamotsu Inabe (HU)

“Molecular crystals with electronic functionalities”

10:10 Lecture 1 Professor Jianwei Zhao (NU)

“Experimental and theoretical studies of energy materials”

10:30 Lecture 2 Professor Taek Dong Chung (SNU)

“Micro gold shells for creative combination between electrochemistry and surface enhanced Raman scattering”

10:50 – 11:05 *coffee break (15 min)*

SESSION 2 (Chairperson: Professor Masako Kato)

- 11:05 Lecture 3 Professor Tamaki Nakano (HU)
 “Interplay between chiral polymers and light”
- 11:25 Lecture 4 Professor Junjie Zhu (NU)
 “Fabrication of new quantum dots and biosensing application”
- 11:45 Lecture 5 Professor Tatsuya Tsukuda (HU)
 “Size-specific catalysis of gold clusters”
- 12:05 – 13:30 *lunch break (85 min)*

SESSION 3 (Chairperson: Professor Jianwei Zhao)

- 13:30 Plenary 2 Professor Xinghua Xia (NU)
 “Interfacial behavior of biomolecules and biosensors”
- 14:10 Lecture 6 Professor Yasuchika Hasegawa (HU)
 “Luminescent lanthanide complexes with asymmetric coordination structures”
- 14:30 – 14:45 *coffee break (15 min)*

SESSION 4 (Chairperson: Professor Tamaki Nakano)

- 14:45 Plenary 3 Professor Jin-Kyu Lee (SNU)
 “New synthetic method to mimic natural melanin polymers”
- 15:25 Lecture 7 Professor Huangxian Ju (NU)
 “Bioanalysis by biofunctionalization of nanomaterials”

SESSION 5 (Chairperson: Professor Tatsuya Tsukuda)

- 15:50 – 17:30 Poster oral presentation
- 17:30 – 18:45 Poster presentation
- 19:00 – 20:30 *Banquet (Central Cafeteria, 2nd floor)*

Day 2 Saturday, November 27, 2010**SESSION 6 (Chairperson: Professor Taek Dong Chung)**

- 9:00 Plenary 4 Professor Kazunori Takada (NIMS/MANA)
 “Nanometer-scale interfacial design for solid-state lithium batteries”
- 9:40 Lecture 8 Professor Byeong-Hyeok Sohn (SNU)
 “Nanoscale polymer micelles with fluorophores for tunable light emission”
- 10:00 Lecture 9 Professor Jianxin Li (NU)
 “Synthesis and inhibitory effects on NO production of chromone based molecules”
- 10:20 – 10:35 *coffee break (15 min)*

SESSION 7 (Chairperson: Professor Hiroki Habazaki)

- 10:35 Lecture 10 Professor Hiroaki Misawa (HU)
 “Plasmon-assisted photocurrent generation system”
- 10:55 Lecture 11 Professor Masayoshi Higuchi (NIMS/MANA)
 “Electrochromic properties of organic-metallic hybrid polymers and their application to display devices”
- 11:15 Lecture 12 Professor Masako Kato (HU)
 “Vapor-induced multichromic luminescence of platinum (II) Complexes with dicarboxybipyridine”

CLOSING REMARKS SESSION

- 11:35 – 11:55 Closing Address / Professor Hiroki Habazaki (HU)
- 12:00 – *Lunch*