

The 4th Global COE International Symposium on “Practical Chemical Wisdom”

~ Joint Symposium with MANA, NIMS ~

Advanced Materials Design at Nano- and Mesoscales toward Practical Chemical Wisdom

Date: 14 January, 2010

Venue: Nishiwaseda campus (Building No. 63, Room No. 02, 03, 04, 05)

Opening Remarks

9:30~9:45	Introduction of Materials Nanoarchitectonics (MANA)	Masakazu Aono
9:45~10:00	Introduction of Mesochemistry	Kazuyuki Kuroda

Chair: Kiyoshi Shimamura (Optronics Materials Center, NIMS)

10:00~10:20	Enrico Traversa (MANA, NIMS)	“Tailoring Nanostructured Oxide Thin Films for Micro-Solid Oxide Fuel Cells”
10:20~10:40	Tetsuya Osaka (Waseda Univ.)	“R & D of New Design for Materials and Devices on the Basis of Electrochemical Meso & Nanotechnology”
10:40~11:00	Liyuan Han (MANA, NIMS)	“Highly Efficient Dye-Sensitized Solar Cells”
11:00~11:20	Hiroyuki Nishide (Waseda Univ.)	“A New Organic-Based Solar Cell Using Radical Polymers”

(Coffee Break)

Chair: Yoshiyuki Sugahara (Waseda Univ.)

11:40~12:30	Plenary Lecture: Galen D. Stucky (UC Santa Barbara, USA)	“Systems and Interfaces for Controlling Catalytic Processes”
12:30~12:50	Kazuyuki Kuroda (Waseda Univ.)	“Chemical Design of Mesoscale Structured Materials”
12:50~13:10	Yoshio Bando (MANA, NIMS)	“BN Nanotubes/Nanosheets and their Polymeric Composites”

(Lunch Time)

Chair: Toru Asahi (Waseda Univ.)

- 14:00~14:20 Takayuki Homma (Waseda Univ.)
“Fabrication of Magnetic Nanodot Array using Electrochemical Processes”
- 14:20~14:40 Akiyoshi Taniguchi (MANA, NIMS)
“Development of Live Cell-Based Sensor Devices”
- 14:40~15:00 Yoshiji Horikoshi (Waseda Univ.)
“Highly Efficient Thin Film Solar Cells with Enhanced Optical Absorption by Excitons”
- 15:00~15:20 Toyohiro Chikyow (Advanced Electric Materials Center, NIMS)
“Landscape of Materials Design for Future Nano Electronics and High-Throughput Materials Exploration”

Chair: Minoru Osada and Yusuke Yamauchi (MANA, NIMS)

- 15:20~17:00 Short Oral Presentations by Poster Presenters
- 17:10~18:40 Poster Session