International Symposium of Joint Research Network on Advanced Materials and Devices

“Chou”

MARCH 25 (THU) AND 26 (FRI), 2010, HOTEL-NIDOM, HOKKAIDO, JAPAN

CO-ORGANIZED BY

・ Network Joint Research Center for Materials & Devices
・ Post-Silicon Materials and Devices Research Alliance
・ JSPS Invitational Training Program for Advanced Japanese Research Institutes
・ 11th RIES-Hokudai International Symposium
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PROGRAM

MARCH 25, 2010

11:00  Buses leave Hokkaido University for Hotel Nidom
12:15  Buses leave New Chitose International Airport for Hotel Nidom
12:30  Registration opens

OPENING REMARKS (Room Ehureppo)
13:00 – 13:05 Dr. Akihito Yamaguchi (Director, ISIR, Osaka Univ.)
13:05 – 13:10 Dr. Takeharu Nagai (Chair, Organizing Committee, Hokkaido Univ.)

SESSION I  “NANO & PHOTONICS” (Room Ehureppo)
Chaired by Dr. Kunihiro Ijiro (Hokkaido Univ.)
13:10 – 13:55 Dr. Paul LEIDERER (Univ. Konstanz) S1-1
Optical Near-Fields of Nanostructures and their Use for Nanopatterning
13:55 – 14:35 Dr. Takuo TANAKA (RIKEN) S1-2
Towards Three-Dimensional Plasmonic Metamaterials
14:35 – 15:05 Dr. Tomokazu IYODA (Tokyo Institute of Technology) S1-3
Block Copolymer Templating Processes for Highly Ordered Nanostructured Materials
15:05 – 15:35 Dr. Jyunji NISHII (Hokkaido Univ.) S1-4
Photonic Functions Fabricated by Subwavelength Optics
15:35 – 15:50 Coffee break

POSTER SESSION (Room Topeni)
P-1~P-54
15:35 – 15:50 Poster set up
15:50 – 18:00 Poster presentation

SPECIAL LECTURE (Room Ehureppo)
Chaired by Dr. Akihito Yamaguchi, (Osaka Univ.)
18:00 – 18:55 Dr. Osamu SHIMOMURA (Marine Biological Laboratory) SL
How aequorin, GFP and glorin were discovered

BANQUET (Room Ninkur)
19:00 – 21:00
MARCH 26, 2010

BREAKFAST
7:00 – 8:30

POSTER TEAR DOWN
7:00 – 8:30

SESSION II “SMART MOLECULAR SYSTEM” (Room Ehureppo)
Chaired by Drs. Nobuyuki Tamaoki and Ken-ichi Niikura (Hokkaido Univ.)

8:30 – 9:15 Dr. A Prasanna DE SILVA (Queen’s Univ. Belfast) S2-1
2010: A Small Space Odyssey with Luminescent Molecules

9:15 – 9:55 Dr. Itaru HAMACHI (Kyoto Univ.) S2-2
Selective Chemical Labeling and Engineering of Endogenous Proteins in Test Tube, in Cell and in Vivo

9:55 – 10:30 Dr. Masatsugu SHIMOMURA (Tohoku Univ.) S2-3
Novel Biomimetic Surface Materials Based on Self-organized Honeycomb-Patterned Polymer Films

10:30 – 11:00 Dr. Nobuyuki TAMAOKI (Hokkaido Univ.) S2-4
A Light Controlled Molecular Brake with Complete ON-OFF Rotation

11:00 – 11:15 Coffee break

SESSION III “CARVING OUT A FUTURE WITH NEW TECHNOLOGIES TO ELUCIDATE BIOLOGICAL ENIGMA” (Room Ehureppo)
Chaired by Drs. Takeharu Nagai and Tomomi Tani (Hokkaido Univ.)

11:15 – 11:55 Dr. Yoshihiro OHMIYA (AIST) S3-1
Basic and Application of Luciferases for Bioluminescence Imaging

11:55 – 12:30 Dr. Satoru KIDOAKI (Kyushu Univ.) S3-2
Development of Micropatterned Elastic Gels to Control Cell Mechanotaxis and Motility-Related Functions

LUNCHEON SEMINAR (NIKON) (Room Ehureppo)
12:30 – 13:00 Dr. Hiroyuki NOJI (Osaka Univ.) L-1
Imaging of Intracellular ATP Using FRET-Based Indicators
13:00 – 13:20  Mr. Yoshiro OIKAWA (Nikon)  L-2
The Latest Technologies with Optical Bio Imaging; from High-speed Confocal to Super Resolution Microscope

SESSION III  (continued)
13:20 – 13:50  Dr. Tomomi NEMOTO (Hokkaido Univ.)  S3-3
Two-photon Microscopic Analysis of Secretion and Fine Intracellular Structure of Living Cell

13:50 – 14:00  Coffee break

SESSION IV  “THEORY MEETS EXPERIMENTS AND VICE VERSA”  
(Room Ehureppo)  Chaired by Dr. Seiji Takagi (Hokkaido Univ.)
14:00 – 14:30  Dr. Tamiki KOMATSUZAKI (Hokkaido Univ.)  S4-1
Extracting a Multidimensional Free Energy Landscape from a Scalar Single-Molecule Time Series
14:30 – 15:05  Dr. Takashi WASHIO (Osaka Univ.)  S4-2
Estimating States and Process of a Complex System from Sparse Samples
15:05 – 15:45  Dr. Hiroaki TAKAGI (Nara Medical Univ.)  S4-3
Cellular Sensing Strategy Based on Spontaneous Migration Revealed Under Electrotaxis in Dictyostelium Cells
15:45 – 16:30  Dr. Michel PEYRARD (ENS-Lyon)  S4-4
Using UV Bi-photonic Excitation to Add a Dimension to DNA Melting Curves: Experimental and Theoretical Studies of Sequence Effects on the Fluctuation and Melting of Short DNA Molecules

CLOSING REMARKS
16:30 – 16:40  Dr. Hiroaki Misawa (Director, RIES, Hokkaido Univ.)

16:50  Buses leave Hotel Nidom for New Chitose International Airport
16:50  Buses leave Hotel Nidom for Hokkaido University
Hotel-Nidom Center House Floor Plan

Ground Floor

First Floor

Symposium Hall
(Room Ehureppu)

Banquet Room
(Room Niskur)

Swimming Pool

Poster Room
(Room Topans)

Entrance

Entrance Hall

0/2.