

Germany-Japan Workshop 2008 on Nano-materials for Young Researchers

Tokyo Big Sight, Conference Room 102; 3-21-1 Ariake, Koto-ku, Tokyo 135-0063

February 14, 2008

9:30 Opening remarks

Mr. Masayuki Takahashi	Director of Office for Materials Science and Nanotechnology Development, Basic and general Research Division, MEXT
Dr. Wolfgang Stöffler	MinDirig. of BMBF
Dr. Teruo Kishi	President of NIMS
Dr. Regine Hedderich	Managing Director of NanoMat

Session Nanophotonics & Nano-bio materials

Chair; Prof. Yuichi Ikuhara

10:00~12:05 Oral Presentation

- (1) 10:00 Novel Materials for nanophotonic devices.
Cedric Meier, University of Duisburg-Essen
- (2) 10:25 Near-Field Study on Correlation of Localized Electric Field and Nanostructures
in Gold Nanoparticle Assembly.
Toru Shimada, National Institute for Materials Science,
- (3) 10:50 Controlled Formation of Magic Size Clusters of CdSe
Stefan Kudera, Max Planck Institute for Metals Research
- (4) 11:15 Electronic Properties of DNA towards Electronic DNA Sequencing
Mingsheng Xu, National Institute for Materials Science
- (5) 11:40 Engineering Chemically Tailored Micro-, Submicro- and Nanostructures for
Biological Application,
Hartmut Gliemann, Forschungszentrum Karlsruhe

Lunch 12:05 ~ 13:30

Session Fullerene & nanomaterials

Chair; Dr. Regine Hedderich

13:30~15:10 Oral Presentation

- (6) 13:30 Fullerene-based supramolecular nanoarchitectures
Takatsugu Wakahara, National Institute for Materials Science
- (7) 13:55 Atoms in molecular cages for quantum computing
Wolfgang Harneit, Free University Berlin
- (8) 14:20 Fullerene Hosts and Liquid Crystalline Organic Semiconductors: Examples of
Nanoscale Materials Based on Synthetic Organic Chemistry
Kentaro Tashiro, The University of Tokyo
- (9) 14:45 Chemical bond manipulation between fullerene molecules for ultra-high density
data storage
Masato Nakaya, National Institute for Materials Science

Coffee break 15:10 ~ 15:40

Session Advanced nanomaterials and characterization

Chair: Dr. Daisuke Fujita

15:40~17:20 Oral Presentation

- (10)15:40 Hydrogen storage materials for mobile applications**
Nobuko Hanada, Forschungszentrum Karlsruhe
- (11)16:05 First principles study of phonon instability in perovskite oxides**
Testuya Tohei, The University of Tokyo
- (12) 16:30 Polymer Phase Lithography: Layout-Controlled and Spontaneous Structure
Formation on the Nano Scale**
Stefan Walheim, Karlsruhe Institute of Technology
- (13)16:55 Nanoparticles and their applications**
Koji Mitamura, Nagoya University Ecotopia Science Institute

17:20 Closing Remarks

17:30~ Reception