



Tokyo Tech – Asia Materials week

Date: November 19-21, 2008

Place: Innovation Center, Tokyo Tech Tamachi Campus (central Tokyo)
Fujicalm Center, Fuji-Yoshida (Yamanashi prefecture)

Program

Wednesday, November 19

Tokyo Tech – Tsinghua University Joint Symposium

(venue: Innovation Center, Tokyo Tech Tamachi Campus)

Symposium Program

- 9:15 ~9:30 Opening Lecture *Prof. Mitsumasa Iwamoto (Tokyo Tech)*
- 9:30 ~10:00 **1-A-1** “Regular undulation morphology observed in fracture and film surfaces of chiral S_C* polymer”
Prof. Junji Watanabe (Tokyo Tech)
- 10:00 ~10:30 **1-A-2** “Polymer assisted Assembly of Carbon nanotubes”
Prof. Xuming Xie (Tsinghua University)
- 10:30 ~11:00 **1-A-3** “Development of Ti-base biomedical shape memory alloys”
Assoc. Prof. Hideki Hosoda (Tokyo Tech)
- 11:00 ~11:30 **1-A-4** “Electrospinning of Functional Nanofibers”
Prof. Wei Pan (Tsinghua University)
- 11:30 ~13:00 **(Lunch)**
- 13:00 ~13:30 **1-P-5** “Piezoelectric Ceramic Films for MEMS Applications”
Prof. Jingfeng Li (Tsinghua University)
- 13:30 ~14:00 **1-P-6** “Evaluation of organic electronic devices using optical measurements”
Assist Prof. Takaaki Manaka (Tokyo Tech)
- 14:00 ~14:30 **1-P-7** “Patterning of Nanostructured Cuprous Oxide by Surfactant-Assisted Electrochemical Deposition”
Assoc. prof. Qiang Cai (Tsinghua University)

- 14:30 ~ 15:00 **1-P-8** “Nanoscale characterization of polymer and bio-materials by means of single-molecule techniques.”
Assist Prof. Satoshi Habuchi (Tokyo Tech)
- 15:00 ~ 15:20 **(Coffee Break)**
- 15:20 ~ 15:50 **1-P-9** “Soft Magnetic FeCo-based Alloys and Composites”
Prof. Ronghai Yu (Tsinghua University)
- 15:50 ~ 16:20 **1-P-10** “Quantum confinements at surfaces”
Prof. Hiroyuki Hirayama (Tokyo Tech)
- 16:20 ~ 16:25 Closing

Thursday, November 20

G-COE Young Researchers Workshop

(venue: Fujicalm Center, Fuji-Yoshida)

- 8:50 ~ 9:00 Opening Talk *Prof. Hideo Takezoe*
(G-COE Leader, Tokyo Tech)
- 9:00 ~ 9:09 **2-A-1p** “Suppression of partial filling of a resist film in thermal nanoimprint lithography”
Hirokazu Oda (Tokyo Tech)
- 9:09 ~ 9:18 **2-A-2p** “Radical Polymerization of host-guest complexes of methacrylate monomers and cyclodextrin derivatives”
Yunshen Chen (Tsinghua University · Tokyo Tech)
- 9:18 ~ 9:27 **2-A-3p** ” Formation of a Catenane via the Cyclization of a Telechelic Polymer in the Presence of a Cyclic Polymer through Hydrogen-Bonding”
Kazuyuki Ishikawa (Tokyo Tech)
- 9:27 ~ 9:36 **2-A-4p** ” Giant nonlinear conductivity and spontaneous oscillation phenomena in incommensurate organic superconductors”
Yoshimasa Bando (Tokyo Tech)
- 9:36 ~ 9:45 **2-A-5p** ”Nonlinear conductivity of alpha-(BEDT-TTF)₂I₃”
Kozo Tamura (Tokyo Tech · Tsinghua University)
- 9:45 ~ 9:54 **2-A-6p** “Electric conduction in liquid crystalline phase of biaxial Gay-Berne particles”
Masanao Goto (Tokyo Tech)
- 9:54 ~ 10:03 **2-A-7p** ” Study on biaxiality of a banana-shaped nematic liquid crystal”
Khoa Van Le (Tokyo Tech)

10:03 ~ 10:12 **2-A-8p** ” Synthesis and characterization of high refractive polyimides derived from 2,7-bis(4'-aminophenylenesulfanyl) thianthrene-5,5,10,10-tetraoxide and aromatic dianhydrides”

Nam-Ho You (Tokyo Tech)

10:12 ~ 10:21 **2-A-9p** ” Creation of POSS nano-sheets via designed block copolymer self-assembly”

Tomoyasu Hirai (Tokyo Tech)

10:21 ~10:50 **(Coffee Break)**

10:50 ~11:40 Invited talk 1 :

2-A-10 “Reinventing Conventional Techniques/Materials towards Innovative Nanomaterials - The Case of Electrospinning and Graphene”

Assoc.Prof. Dan Li

(Monach University, Australia)

11:40 ~12:30 Invited talk 2 :

2-A-11 “Near-infrared-fluorescence-quenched gold-nanoparticle imaging probe for in vivo drug screening and protease activity determination”

Prof. C.-H. Ahn

(Seoul National University, Korea)

12:30 ~13:40 **(Lunch)**

13:40 ~14:30 Invited talk 3 :

2-P-12 “Superconducting materials and phase diagram in high-Tc pnictide superconductors”

Prof. X. H. Chen

(University of Science and Technology of China)

14:30 ~15:20 Invited talk 4 :

2-P-13 “Fabrication of temperature-responsive bending hydrogels with a nanostructured gradient”

Prof. M. Akashi (Osaka University)

15:20 ~15:40 **(Coffee Break)**

15:40 ~15:49 **2-P-14p** ” Effects of magnetic field on shape change of Fe-Co particles in a Cu matrix”

Chiharu Kanno (Tokyo Tech)

- 15:49 ~15:58 **2-P-15p** ” Research on tandem solar cells consisted of dye-sensitized solar cell and Cu(InGa)Se₂ solar cell”
Wenli Wang (Tsinghua University · Tokyo Tech)
- 15:58 ~16:07 **2-P-16p** ” Formation of Antiparallel Alignment in CoPt/AlN Multilayered Films with Perpendicular Magnetic Anisotropy”
Youxing Yu (Tokyo Tech)
- 16:07 ~16:16 **2-P-17p** ”Microstructure effect on the exchange bias of Co/CoO multilayered films”
Xingzhi Ning (Tsinghua University · Tokyo Tech)
- 16:16 ~16:25 **2-P-18p** “Effect of precipitation processes on structural and room temperature ferromagnetic properties of Co doped SnO₂ nanoparticles”
Takashi Harumoto (Tokyo Tech · Tsinghua University)
- 16:25 ~16:34 **2-P-19p** ” Estimation of damage evolution of refractory by nonlinearity in stress-strain curve”
Rui Zhang (Tsinghua University · Tokyo Tech)
- 16:34 ~16:43 **2-P-20p** “Wide band dielectric spectroscopy of barium strontium titanate and its microscopic mechanism of dielectric property”
Takashi Teranishi (Tokyo Tech)
- 16:43 ~16:52 **2-P-21p** ” Preparation of TiO₂-riched CaCu₃Mn_{0.1}Ti_{3.9}O₁₂ ceramics and their dielectric properties”
Ryo Sakamaki (Tokyo Tech · Tsinghua University)
- 16:52 ~17:01 **2-P-22p** “Formation of potential barrier with conductive cement, electron doped 12CaO · 7Al₂O₃ and metal electrodes”
Yukimasa Nishio (Tokyo Tech)
- 17:01 ~17:10 **2-P-23p** “Photocatalytic Activity of Poly Acid-TiO₂ Hybrid Thin Films”
Sayaka Yanagida (Tokyo Tech)
- 17:10 ~17:19 **2-P-24p.**” Fs spectroscopic study on the photo-excited state in thin film of TiO₂ nano-particle”
Wencan Zhou (Tsinghua University · Tokyo Tech)
- 17:19 ~17:28 **2-P-25p.**” Dipole Moment Design of Phospholipid Monolayer by Divalent Ion Doping”
Wei Ou-Yang (Tokyo Tech)
- 17:28 ~18:30 **(Free Time)**
- 18:30 ~20:30 **(Dinner)**
- 20:30 ~22:00 **Poster Session**

Friday, November 21

NPG Asia Materials Joint Meeting (a closed-door conference)

(venue: Fujicalm Center, Fuji-Yoshida)

- 9:00 ~ 9:10 Best Poster Award ceremony
- 9:10 ~ 9:15 Opening *Hideo Takezoe (NPG Asia Materials Editor-in-Chief)*
- 9:15 ~ 10:45 Self-introduction by Advisory Board and Editorial Committee members
- 10:50 ~ 13:30 Excursion
- Oshino Village (the spring waters of Oshino-Hakkai Eight Ponds)
<http://www.vill.oshino.yamanashi.jp/>
- Lunch at Yamanaka-ko Lake
- 13:45 ~ 14:05 “Concept of the Nature family of journals”
- David Swinbanks*
- (NPG Publishing Director; CEO, Nature Asia-Pacific)*
- 14:05 ~ 14:45 “Managing a Nature journal”
- Rachel Won (Associate Editor, Nature Photonics)*
- 14:45 ~ 15:00 **(Coffee Break)**
- 15:00 ~ 17:30 JOINT ADVISORY BOARD AND EDITORIAL COMMITTEE
MEETING *closed-door meeting
- 18:30 ~ 20:30 NPG Asia Materials Dinner Party at Fujiyama Brewery