

## **Agenda for NSF- MEXT Joint International Workshop for Carbon Nanotube and its applications**

September 12 and 13, 2005

Stanford University

Packard 101 Auditorium

### **Monday, September 12, 2005**

- |           |   |                              |
|-----------|---|------------------------------|
| 8:15a.m.  | Welcome   | Hongjie Dai and Yoshio Nishi |
|           | NSF   | Rajinder Koshla,             |
|           | MEXT  | TBD                          |
| 9:00a.m.  | <i>“Device Physics of Carbon Nanotube FETs”</i><br>Prof. Mark Lundstrom, Purdue University  |                              |
| 9:30a.m.  | <i>“Modeling of nanoscaled FETs: ultra thin body FETs vs carbon nanotube FETs”</i><br>Dr. Ken Uchida, Stanford University/Advanced LSI Technology Laboratory, Toshiba Corporation |                              |
| 10:00a.m. | Coffee break  |                              |
| 10:30a.m. | <i>“Characterization of Carbon Nanotube FETs with Various Contact Metals”</i><br>Prof. Takashi Mizutani, Dept. of Quantum Engineering, Nagoya University                          |                              |
| 11:00a.m. | <i>“AC properties of single walled nanotubes and ultra-long nanotube synthesis”</i><br>Prof. Peter Burke, UC Irvine   |                              |
| 11:30a.m. | Breakout session with speakers as discussion leaders  |                              |
| 12:00p.m. | Lunch   |                              |
| 1:00p.m.  | <i>“Charge Sensing in Quantum Dots and Nanotubes”</i><br>Prof. Charles Marcus, Harvard University   |                              |
| 1:30p.m.  | <i>“Observation of atomic defects in carbon nanostructures”</i><br>Dr. Kazutomo Suenaga, Team Leader, National Institute of Advanced Industrial Science and Technology (AIST)     |                              |
| 2:00p.m.  | <i>“Latest Synthesis and Devices of Carbon Nanotubes”</i><br>Prof. Hongjie Dai, Stanford University   |                              |
| 2:30p.m.  | Coffee break  |                              |
| 3:00p.m.  | <i>“Synthesis and device application of aligned single-walled carbon nanotubes on sapphire”</i><br>Prof. Chongwu Zhou, University of Southern California                          |                              |
| 3:30p.m.  | <i>“Possibility and Fabrication of Carbon-Nanotube Transistors”</i><br>Dr. Fumiyuki Nihey, Fundamental and Environmental Res. Labs. NEC Corporation                               |                              |
| 4:00p.m.  | <i>“Ultra-Fast Dynamics in Carbon Nanotubes Explored by TDDFT-MD Simulations”</i><br>Dr. Yoshiyuki Miyamoto, Fundamental and Environmental Res. Labs. NEC Corporation             |                              |
| 4:30p.m.  | <i>“Electronic properties and applications of semiconducting carbon nanotubes”</i><br>Prof. Michael Fuhrer, University of Maryland  |                              |
| 5:00p.m.  | Breakout session  |                              |

# Agenda for NSF- MEXT Joint International Workshop for Carbon Nanotube and its applications

Revised 8/22/05

September 12 and 13, 2005

Stanford University

Packard 101 Auditorium

**Tuesday, September 13, 2005**

- 8:30a.m.      “*Optical response of carbon nanotube thin films and their transistors*”  
Prof. Yoshihiro Iwasa, Institute For Materials Research, Tohoku University
- 9:00a.m.      “*Carbon nanotube field-effect transistors - The latest insights*”  
Dr. Joerg Appenzeller, T.J. Watson Research Center, IBM Corporation
- 9:30a.m.      “*Field Emission Microscopy and In-situ Transmission Electron Microscopy of Carbon Nanotube Electron Emitters*”  
Prof. Yahachi Saito, Dept. of Quantum Engineering, Nagoya University
- 10:00a.m.     Coffee break
- 10:20a.m.     “*Controlling field emission characteristics of SWNT by varying the (n,m) structure and bundle size*”  
Prof. Daniel Resasco, University of Oklahoma
- 10:50a.m.     “*Optical properties of carbon nanotubes*”  
Prof. Riichiro Saito, Department of Physics, Tohoku University and CREST Japan
- 11:20a.m.     “*Carbon Nanotube Field-Emission-Display*”  
Dr. Sashiro Uemura, Limited Strategic Development Project, Noritake Co.
- 11:50a.m.     Breakout session
- 12:30p.m.     Lunch
- 1:30p.m.      “*Optical Properties of Isolated Single Wall Carbon Nanotubes Directly Grown in Ceramics*”  
Dr. Hiromichi Kataura, National Institute of Advanced Industrial Science and Technology, Nanotechnology Research Institute
- 2:00p.m.      “*Nano-Peapods in the Making*”  
Prof. Hisanori Shinohara, Department of Chemistry & Institute for Advanced Research, Nagoya University
- 2:30p.m.      “*Carbon nanotube technologies: via interconnects and molecular dynamic study*”  
Dr. Yuji Awano, Fujitsu Limited & Fujitsu Laboratories Ltd.
- 3:00p.m.      Coffee break
- 3:20p.m.      “*Magnetoresistance and electron interactions in SWNTs*”  
Prof. Dave Cobden, University of Washington
- 3:50p.m.      Breakout session and wrap-up
- 5:30p.m.      Meeting Adjourned to be followed by dinner at the California Cafe