

WONTON 2009 Chairman
Sunday, June 7

15:00 *Opening (Riichiro Saito)*

Chair: Jacques Lefebvre

15:15 **R. Bruce Weisman:** Recent Applications of Single-Walled Carbon Nanotube Fluorescence

15:50 **Hirofumi Kataura:** Squeezing Metallic SWCNTs from Thawed out Black Agarose

16:25 **Stephen K. Doorn:** Modulation of Surfactant/Nanotube Interfacial Behavior: Enhanced Separations and Spectroscopy

17:00 *Break*

18:00 *Evening Reception*

19:30 *Evening Poster Session*

Monday, June 8

Chair: R. Bruce Weisman

- 8:30 **Tobias Hertel**: When size does matter: Exciton diffusion and Brownian motion of carbon nanotubes
- 9:05 **Manfred M. Kappes**: Photoluminescence studies and separation of single-walled carbon nanotubes
- 9:40 **Nobutsugu Minami**: Absorption, Photoluminescence and Photoconductivity of Highly Purified Semiconducting Single-wall Carbon Nanotubes
- 10:15 *Coffee Break*

Chair: Tony F. Heinz

- 10:35 **Sumit Mazumdar**: The Mott-Hubbard Interaction and Exciton Binding Energies in Semiconducting and Metallic Single-Walled Carbon Nanotubes
- 11:10 **Ji Ung Lee**: Optical Spectroscopy of Carbon Nanotube P-N Diodes
- 11:45 **Yutaka Ohno**: Direct comparison of photoluminescence intensity with (n,m) abundance of single-walled carbon nanotubes
- 12:20 *Lunch*

Chair: Ado Jorio

- 13:35 **Riichiro Saito**: Exciton effect and phonon softening effect in the Raman spectroscopy of single wall carbon nanotubes
- 14:10 **Jacques Lefebvre**: Luminescence spectroscopy of individual SWNTs and elemental bundles
- 14:45 **Michael S. Strano**: Biological applications of near-infrared fluorescent sensors based on single-walled carbon nanotubes
- 15:20 *Coffee Break*

Chair: Stephen K. Doorn

- 15:40 **Masao Ichida**: Nonlinear Optical Properties and Phase Relaxation Processes in Semiconducting Single-Walled Carbon Nanotubes
- 16:15 **Ado Jorio**: Probing Disorder in Graphene with Raman Spectroscopy
- 16:50 *Poster Session*
- 18:00 *Dinner*
- 19:30 *Evening Poster Session*

Tuesday, June 9

Chair: Steven G. Louie

- 8:30 **Tony F. Heinz**: Optical Spectroscopy of Single and Multilayer Graphene
- 9:05 **Jay Kikkawa**: Optical and Magnetic Anisotropy in Graphene Oxide
- 9:40 **Christian Thomsen**: Vibrational modes in graphene and semiconductor nanorods
- 10:15 *Coffee Break*

Chair: Junichiro Kono

- 10:35 **Luiz Gustavo Cancado**: Theory of Near-field Raman Enhancement in Carbon Nanotubes
- 11:10 **Zi Kang Tang**: Optical properties of ultra-thin single-walled carbon nanotubes aligned in the nano channels of zeolite AEL single crystals
- 11:45 *Lunch*

Chair: Susumu Saito

- 13:00 *CNTNE2009 Opening (T. Mizutani)*
- 13:10 **Marcus Freitag**: Electrical power dissipation, phonon populations, and substrate effects in carbon nanotubes and graphene
- 13:45 **Junichiro Kono**: Terahertz Dynamics in Carbon Nanotubes
- 14:20 **Kazunari Matsuda**: Exciton Fine Structures and Dynamics Studied by Single Carbon Nanotube Spectroscopy
- 15:10 *Tour*
- 19:00 *Banquet*

Wednesday, June 10

Chair: Marcus Freitag

- 8:30 **Mildred Dresselhaus**: Our Recent Advances in Nanotube and Graphene Research
9:05 **Tsuneya Ando**: Optical properties of monolayer and bilayer graphene
9:40 **Andrea C. Ferrari**: Raman, Photoluminescence and Saturable Absorption in Graphene

10:15 *Coffee Break*

Chair: Kazunari Matsuda

- 10:35 **Steven G. Louie**: Electronic and Optical Properties of Nanotubes, Graphene, and Graphene Nanostructures
11:10 **Yoshikazu Homma**: Effects of Environment and Defects on Photoluminescence of Single Wall Carbon Nanotube
11:45 **Atac Imamoglu**: Quantum optics with carbon nanotubes

12:20 *Lunch*

Chair: Mildred Dresselhaus

- 13:35 **Arao Nakamura**: Third-Order Nonlinear Optical Response in Fullerene-Peapods
14:10 **Naotoshi Nakashima**: Direct Determination of Precise Electronic States of SWNTs Based on Soluble Carbon Nanotubes
14:45 **Susumu Saito**: Electronic and Geometrical Properties of Carbon Nanotubes: A First-Principles Study

5:20 *Coffee Break*

Chair: Manfred M. Kappes

- 15:40 **Yohji Achiba**: Production of (5,4) and (6,4) Enriched Single-Walled Carbon Nanotubes Grown Using a Platinum Catalyst
16:15 **Shigeo Maruyama**: Spectral features due to dark exciton in photoluminescence map of single-walled carbon nanotubes