

Graphene Workshop in Tsukuba

• • • Discussion on graphene growth toward future applications • • •

Date: January, 17-18th, 2011

Venue: Okura Frontier Hotel Tsukuba

Main bldg. 3rd Floor Conference Room "Jupiter"

Purpose : Focusing on graphene growth and characterizations

Sponsorship : NIMS (National Institute for Materials Science)

Program (tentative titles)

Jan. 17th Growth of Graphene

(Chairperson: Prof. Enoki (TITech))

09:00-09:05	Opening remark	Prof. S. Ushioda (NIMS president)
09:05-09:10	Purpose of the workshop	Prof. Y. Horiike (NIMS)
09:10-10:10	The Impact of Graphene	Prof. M.S. Dresselhaus (MIT)
10:10-10:30	At the beginning of the study on graphite films	Prof. Y. Ohashi (Keio Univ.)

(10:30-10:50) Coffee Break

(Chairperson: Dr. Takai (TITech))

10:50-11:20	Raman spectroscopy of graphene	Prof. R. Saito (Tohoku Univ.)
11:20-11:50	Graphene, h-BN and BC3 Films on Solid Surfaces	Prof. C. Oshima (Waseda Univ.)
11:50-12:10	Synthesis of Graphene Layers by Surface Segregation and Precipitation	Drs. D. Fujita (NIMS) and M. Xu

(12:10 - 13:40) Lunch

(Chairperson: unfixed)

13:40-14:40	Chemistry of Graphene	Prof. K.P. Loh (National Univ. of Singapore)
14:40-15:10	Graphene growth with Ga catalysis	Prof. J. Fujita (Univ. of Tsukuba)
15:10-15:30	Graphene on Insulator Formed by Liquid Metal Flux Method	Dr. H. Hiura (NIMS/NEC)

(15:30-15:50) Tea Break

(Chairperson: Dr. Hiura (NIMS))

15:50-16:20	Graphene Growth on SiC	Prof. M. Kusunoki (Nagoya Univ.)
16:20-16:50	Growth and characterization of graphene on SiC	Dr. H. Hibino (NTT)
16:50-17:20	Self-organized graphene nanoribbons on vicinal SiC surfaces	Prof. S. Tanaka (Kyushu Univ.)

(18:00-20:00) Banquet (Prof. Enoki TITech)

Annex 1st Floor Banquet Hall "Subaru"

Jan. 18th Chemical synthesis, physical characterizations

(Chairperson: Prof. Kiguchi (TITech))

09:00-10:00 "Graphene as Chemical Multitalent – Catalyst, Semiconductor, Nanowire, Protein Template".

Prof. K. Muellen (Max-Planck Institute)

10:00-10:30 Synthesis and Investigation of Anti-Ferromagnetic

State of Polycyclic Aromatic Hydrocarbons Prof. T. Kubo (Osaka Univ.)

(10:30 -10:50) Coffee Break

(Chairperson: unfixed)

10:50-11:20 High resolution TEM studies of graphen structures

Dr. K. Suenaga (AIST)

11:20-11:50 Graphene edge and its functionality

Prof. T. Enoki (TITech)

11:50-12:10 Edge and nanoscale effect on electronic properties of graphene (theory)

Dr. K. Wakabayashi (NIMS)

(12:10 - 13:30) Lunch

(Chairperson: Dr. Tsukagoshi (NIMS))

13:30-14:30 Electronic Properties of Mono- and Bi-Layer Graphene

Prof. K. S. Novoselov (Univ. of Manchester)

14:30-15:00 Theoretical characteristics of graphene and thin films of graphite

Prof. S. Okada (Univ. of Tsukuba)

(15:00 -15:20) Tea Break

(Chairperson: Dr. Wakabayashi (NIMS))

15:20-16:20 Quantum transport in graphene/h-BN heterostructures

Dr. A. Young and Prof. P. Kim (Columbia Univ.)

16:20-16:50 Wafer-scale synthesis of graphene and fabrication of graphene-channel transistors

Dr. S. Sato (TIA/Fujitsu)

16:50-17:10 Fabrication of graphene logic inverters

Dr. Songlin Li and Dr. K. Tsukagoshi (NIMS)

17:10-17:20 Closing remark

Prof. T. Noda (NIMS, Vice-President)

Jan. 19th Satellite Workshop: Workshop on Dirac Electron Systems 2011 (at Namiki-site, NIMS)