## Program

# Recent Advances in Graphene and Related Materials

1 - 6 August 2010 Singapore

#### **Conference Chair**

Kian Ping Loh National University of Singapore, Singapore

#### **Conference Co-chairs**

Antonio Castro-Neto Boston University, USA

**Toshiaki Enoki** Tokyo Institute of Technology, Japan

Özyilmaz Barbaros National University of Singapore, Singapore

Andrew T. S. Wee National University of Singapore, Singapore

Young-Woo Son School of Computational Sciences, Korea Institute for Advanced Study

**Kyeongjae Cho** University of Texas – Dallas and Korea Institute for Advanced Study

> Byung Hee Hong Sungkyunkwan University, Korea



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Pramoda Kumari Pallathadka, Institute of Materials Research and Engineering

18:00 - 20:30

Conference check-in (Cinnamon Foyer)

#### NOTES

- Morning General Technical Sessions will be held in the Cinnamon Room
- Parallel Sessions A will be held in the followings rooms:

Tuesday:	Phoenix Ballroom 1
Wednesday:	Cinnamon Room
Thursday:	Phoenix Ballroom 1

• Parallel Sessions B will be held in the followings rooms:

Tuesday:	Phoenix Ballroom 2
Wednesday:	Phoenix Ballroom 1
Thursday:	Cinnamon Room

- Poster Session will be held in the Cinnamon Room.
- Audiotaping, videotaping and photography of presentations are prohibited.
- Speakers Please leave at least 5 minutes for questions and discussion.
- Please do not smoke at any conference functions.
- Turn your cellular telephones to vibrate or off during technical sessions.
- Be sure to make any corrections to your name/contact information on the Master Participant List or confirm that the listing is correct. A corrected copy will be sent to all participants after the conference.

08:45 - 09:15	Opening Address: K.P. Loh, Conference Chair Welcome Address: Antonio Castro-Neto Welcome from ECI: Nghi Lam, ECI Technical Liaison
09:15	Session 1: Nanoscale Graphene Devices 1 Session Chair: Antonio Castro-Neto
09:15 - 10:00	Plenary Speaker Philip Kim, <i>Columbia University</i> ELECTRON TRANSPORT IN GRAPHENE
10:00 - 10:20	Invited Talk Tomas Palacios, <i>Massachusetts Institute of Technology</i> GRAPHENE AMBIPOLAR ELECTRONICS
10:20 - 11:00	Coffee break
	Session Chair: Toshiaki Enoki
11:00 - 11:20	Invited Talk Eric M. Vogel, <i>University of Texas at Dallas</i> PROPERTIES OF METAL CONTACTS ON GRAPHENE
11:20 - 11:40	
11:40 - 12:00	Invited Talk Jose A. Garrido, <i>Walter Schottky Institut, Technische</i> <i>Universität München</i> <b>DIAMOND AND GRAPHENE SOLUTION-GATED FIELD</b> <b>EFFECT TRANSISTORS</b>
12:00 - 14:00	Lunch break
14:00	Session 2: Epitaxial Graphene Growth, Characterization and Devices 1 Session Chairs: Andrew T.S. Wee; Kostya Novoselov
14:00 - 14:20	Invited Talk Kazuhito Tsukagoshi, <i>MANA, NIMS</i> BAND GAP TUNING FOR GRAPHENE TRANSISTOR
14:20 - 14:40	Kazuyuki Takai, <i>Tokyo Institute of Technology</i> STRUCTURE AND THE ELECTRONIC STUCTURE OF EPITAXIAL GRAPHENE EDGES
14:40 - 15:00	Invited Talk Thomas Seyller, <i>University of Erlangen-Nuremberg</i> EPITAXIAL GRAPHENE ON SIC (0001)

15:00 - 15:20	V. Sorkin, Institute of High Performance Computing PARTIAL EPITAXIAL MORPHOLOGY OF GRAPHENE NANORIBBON AND NANOFLAKE ON THE SI- TERMINATED SIC (0001) SURFACES
15:20 - 16:00	Tea Break
16:00	Session 3: Nanoscale Graphene Devices 2 Session Chair: Özyilmaz Barbaros
16:00 - 16:30	KEYNOTE Talk Konstantin S. Novoselov, <i>University of Manchester</i> GRAPHENE AND ITS CHEMICAL DERIVATIVES
16:30 - 16:50	Invited Talk Toshiaki Enoki, <i>Tokyo Institute of Technology</i> FERRIMAGNETIC STRUCTURE AND SPIN GLASS STATE OF A NETWORK OF NANOGRAPHENE SHEETS
16:50 - 17:10	Katsunori Wakabayashi, International Centre for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS) MAGNETOTRANSPORT PROPERTIES OF GRAPHENE NANORIBBONS AND JUNCTIONS
17:10 - 17:30	Invited Talk Young Jae Song, Centre for Nanoscale Science and Technology (CNST), National Institute of Standarsa and Technology (NIST), MD 20878 FRACTIONAL HALL PHYSICS OF EPITAXIAL GRAPHENE: SCANNING TUNNELING SPECTROSCOPY STUDY BELOW 20 MK WITH HIGH MAGNETIC FIELD

09:00	Session 4: Graphene Characterization (Spectroscopy, Raman, etc.) 1 Session Chair: Young-Woo Son
09:00 - 09:45	Plenary Talk Sumio lijima, <i>Meijo University, (National Institute of</i> <i>Advanced Industrial Science and Technology / Nanotube</i> <i>Research Centre, SAINT and NEC)</i> <b>CHARACTERIZATION OF ATOMIC STRUCTURES OF</b> <b>GRAPHENE AND ITS RELATED NANO-CARBON</b> <b>MATERIALS WITH THE LATEST ELECTRON</b> <b>MICROSCOPY</b>
09:45 - 10:05	K. Sasaki, International Centre for Materials Nanoarchitectonics, National institute of Materials Science IDENTIFYING THE ORIENTATION OF EDGE OF GRAPHENE USING G BAND RAMAN SPECTRA
10:05 - 10:35	Coffee break
10:35	Session 5: Latest Development on Preparation Techniques for Large Area Graphene Session Chair: Kian Ping Loh
10:35 - 11:05	Keynote Speaker Byung Hee Hong, SKKU TOWARD INDUSTRIAL APPLICATIONS OF GRAPHENE ELECTRODES
11:05 - 11:35	Keynote Speaker Rod S. Ruoff, <i>University of Texas at Austin</i> GRAPHENE-BASED MATERIALS
11:35 - 11:55	Shintaro Sato, <i>Fujitsu Laboratories Ltd.</i> WAFER-SCALE SYNTHESIS OF GRAPHENE BY CHEMICAL VAPOR DEPOSITION AND FABRICATION OF TOP-GATED FIELD EFFECT TRANSISTORS USING TRANSFER-FREE PROCESSES
11:55 - 12:15	Sung Hun Kim, Korea Electrotechnology Research Institute LARGE AREA PRODUCTION OF SINGLE-LAYER REDUCED GRAPHENE OXIDE BY SHEAR STRESS
12:15 - 13:30	Lunch break

13:30	Session 6: Graphene Characterization (Spectroscopy, Raman,
	<u>etc.) 2</u> Session Chair: Byung Hee Hong
13:30 - 13:50	Katsuaki Sugawara, WPI-AIMR, Tohoku. University ELECTRONIC STRUCTURE OF LI-DOPED GRAPHENE ON SIC (0001) STUDIED BY HIGH RESOLUTION ARPES
13:50 - 14:10	Ken-Ichi Sakai, <i>Tokyo Institute of Technology</i> STM OBSERVATION OF THE FINE STRUCTURE IN THE VICINITY OF THE GRAPHENE EDGE
14:10 - 14:30	Koheni Kanetani, <i>Tohoku. University</i> ELECTRONIC STRUCTURE OF SINGLE- AND MULTI- LAYER GRAPHENE ON SIC(0001) STUDIED BY HIGH RESOLUTION ANGLE-RESOLVED PHTOEMISSION SPECTROSCOPY
14:30	Session 7: Nanoscale Graphene Devices 3 Session Chair: Manu Jaiswal
14:30 - 14:50	Invited Talk Vitor M. Pereira, <i>Boston University</i> ON-DEMAND ENGINEERING OF ELECTRONIC TRANSPORT IN GRAPHENE
14:50 - 15:10	Alina Veligura, <i>University of Groningen</i> LARGE YIELD PRODUCTION OF HIGH MOBILITY FREELY SUSPENDED GRAPHENE ELECTRONIC DEVICES ON A PMGI BASED ORGANIC POLYMER
15:10 -15:30	Invited Talk Christoph Stampfer, <i>RWTH Aachen University</i> SPIN STATES IN GRAPHENE QUANTUM DOTS
15:30 - 15:50	Zheng Yi, Department of Physics, <i>National University of Singapore</i> LARGE SCALE GRAPHENE-BASED FIELD EFFECT TRANSISTORS ON FERROELECTRIC SUBSTRATES
16:30 - 19:30	Poster Session and Singapore Food Happy Hour

13:30	Session 8: Nano-structuring of Graphene (Ion Beam, Cutting, Making of Graphene Nanoribbons) Session Chairs: Kyeong-Jae Cho; John Thong
13:30 - 13:50	Gun-Do-Lee, Seoul National University RECONSTRUCTION AND EVAPORATION AT GRAPHENE NANORIBBON EDGES
13:50 - 14:10	Junji Haruyama, <i>Aoyama Gakuin University</i> ELECTRON TRANSPORT OF NOVEL NON- LITHOGRAPHICALLY FORMED DAMAGE-FREE GRAPHENE NANO-RIBBONS; UNZIPPING OF CARBON /NANOTUBES AND NANO-POROUS ALUMINA TEMPLATE
14:10 - 14:30	S. Mathew, National University of Singapore THE EFFECTS OF MEV PROTON IRRADIATION ON GRAPHENE
14:30 - 14:50	Wang Haomin, Division of Physics and Applied Physics, Nanyang Technological University GRAPHENE NANOGAP WITH ATOMICALLY PARALLEL EDGES AND ITS ELECTRON EMISSION PROPERTIES
14:50 - 15:10	Ye Tao, Department of Physics, National University of Singapore LOCALIZED INSULATOR-CONDUCTOR TRANSFORMATION OF GRAPHENE OXIDE FILM VIA FOCUSED LASER BEAM IRRADIATION
15:10	Session 9: Thermal and Optical Properties of Graphene Session Chair: Zheng Yi
15:10 - 15:30	Invited Talk Alexey Kuzmenko, <i>Department of Physics and Condensed</i> <i>Matter, University of Geneva</i> INFRARED SPECTROSCOPY OF BILAYER GRAPHENE
15:30 - 15:50	G. P. Das, Department of Material Science, Indian Association for Cultivation of Science A MODIFIED GRAPHENE NANOSTRUCTURE FOR HYDROGEN STORAGE
15:50 – 16:10	Jayasena R. A. P. B., Nanyang Technological University A NOVEL MECHANICAL CLEAVAGE METHOD FOR PRODUCING FEW-LAYER GRAPHENES
16:30 - 19:30	Poster Session and Singapore Food Happy Hour

09:00	Session 10: Multiscale Modeling, Theory and Computation in Graphene 1 Session Chair: Su Hai Bin
09:00 - 09:30	Keynote Speaker Antonio Castro-Neto, <i>Department of Physics, Boston</i> <i>University</i> ELECTRONIC AND STRUCTURAL PROPERTIES OF GRAPHENE
09:30 - 09:50	Invited Talk Tsuneya Ando, <i>Department of Physics, Tokyo Institute of</i> <i>Technology</i> ZERO-MODE ANOMALIES IN GRAPHENE: RECENT ADVANCES
09:50 - 10:10	Chilla Damodara Reddy, <i>Institute of High Performance</i> <i>Computing</i> <b>SUBSTRATE ROLE ON EDGE RIPPLES OF GRAPHENE</b> <b>SHEETS</b>
10:10 - 10:40	Coffee break

10:40	<u>Session 11: Multiscale Modeling, Theory and</u> <u>Computation in</u> <u>Graphene 2</u> Session Chair: Tsuneya Ando
10:40 - 11:00	D. V. Khveshchenko, <i>University of North Carolina,</i> Department of Physics and Astronomy MASSIVE DIRAC FERMIONS IN GRAPHENE
11:00 - 11:20	Haibin Su, Nanyang Technological University EXCITON OF FUNCTIONALIZED GRAPHENE NANORIBBONS
11:20 - 11:40	Kikuo Harigaya, <i>Nanosystem Tesearch Institutew, AIST</i> EDGE STATES AND EVANESCENT STATES IN NANOGRAPHENE WITH THE ZIGZAG EDGE STACKED ON TWO-DIMENSIONAL GRAPHENES
11:40 - 12:00	
12:00 - 14:00	Lunch break
14:00	Session 12: Multiscale Modeling, Theory and Computation in Graphene 3 Session Chair: Zhang Chun
14:00 - 14:20	Lucian Covaci, University of Antwerp PROXIMITY INDUCED SUPERCONDUCTING VORTICES IN GRAPHENE
14:20 - 14:40	Sudipta Dutta, International Centre for Materials Nanoarchitectonics ELECTRONIC PROPERTIES OF GRAPHENE NANORIBBONS
14:40 - 15:00	Young-Woo Son, Korea Institute for Advanced Study EFFECTS OF STRAIN ON ELECTRONIC PROPERTIES OF GRAPHENE AND BILAYER GRAPHENE
15:00	Session 13: Engineering Applications of Graphene 1 Session Chair: Manish Chhowalla
15:00 - 15:20	Invited Talk Byung Jin Cho, <i>Department of Electrical Engineering,</i> <i>KAIST</i> <b>PROPERTIES OF GRAPHENE ON DIFFERENT</b> <b>DIELECTRICS AND GRAPHENE OXIDE BASED</b> <b>FLEXIBLE RESISTIVE MEMORY</b>
15:20 - 15:40	Linfei Lai, Nanyang Technological University NITROGEN DOPED GRAPHENE OXIDE AS PT-FREE ELECTROCATALYST FOR OXYGEN REDUCTION IN FUEL CELLS
15:40 - 16:10	Tea break

### Wednesday, August 4, 2010 - Parallel Session A (continued)

16:10	Session 14: Engineering Applications of Graphene 2 Session Chair: Byung Jin Cho
16:10 - 16:30	Invited Talk Jong-Hyun Ahn, SKKU Advanced Institute of Nanotechnology (SAINT) and Centre for Human Interface Nano Technology (HINT), School of Advanced Materials Science and Engineering, Sungkyunkwan University GRAPHENE FILMS FOR ELECTRONIC APPLICATIONS
16:30 - 16:50	Quan-Hong Yang, <i>Tianjin University</i> GRAPHENE: MASS PRODUCTION, SELF-ASSEMBLY AND ELECTROCHEMICAL APPLICATIONS
16:50 - 17:10	Invited Talk Manish Chowalla, <i>Imperial College London</i> OPTO-ELECTRONIC PROPERTIES OF SOLUTION PROCESSABLE CHEMICALLY DERIVED GRAPHENE
17:10 - 17:30	Gi-Moon Yoo, Chungju National University GRAPHENE-NANOPARTICLE COMPOSITE FILM AS THE ELECTRODE FOR DYE-SENSITIZED SOLAR CELLS
18:00 – 21:30	Conference Banquet (off site at Grand Shanghai Restaurant, preceded by a boat tour) The boat dock is adjacent to the hotel – as this is a regularly scheduled boat, please be on time as the boat leaves promptly.

10:40	<u>Session 15: Graphene Characterization (Spectroscopy,</u> <u>Raman, etc.) 3</u> Session Chair: Shen ze xiang; Yu Ting
10:40 - 11:00	Invited Talk Marcos A. Pimenta, <i>Department of Physics, Universidade</i> <i>Federal de MInas Gerais</i> <b>DISPERSION OF ELECTRONICS AND PHONONS, AND</b> <b>ELECTRON-PHONON INTERACTIONS IN BILAYER</b> <b>GRAPHENE INVESTIGATED BY RESONANCE RAMAN</b> <b>SCATTERING</b>
11:00 - 11:20	Andrew T. S. Wee, National University of Singapore STRUCTURE AND MOLECULAR SELF-ASSEMBLY ON EPITAXIAL GRAPHENE
11:20 - 11:40	Woei-Wu Pai, Institute of Atomic and Molecular Sciences, Academia Sinica STM IMAGING OF NON-SUSPENDED AND SUSPENDED GRAPHENE
11:40 - 14:00	Lunch break
14:00	Session 16: Chemical and Biosensors on Graphene Session Chair: Liu Yun-Qi
14:00 - 14:20	Invited Talk Vikas Berry, <i>Kansas State University</i> BIOLOGICAL, MECHANICAL AND CHEMICAL MANIPULATION OF GRAPHENE FOR BIOSENSORS AND QUANTUM DEVICES
14:20 - 14:40	J. Kim, Korea University GRAPHENE-BASED GAS SENSORS
14:40 - 15:00	Invited Talk Zhuang Liu, <i>Soochow University</i> BIOMEDICAL APPLICATION PF SP2 CARBON NANOMATERIALS FOR CANCER THERAPY AND MOLECULAR IMAGING
15:00	<u>Session17: Functionalization and Surface Modification</u> <u>of Graphene 1</u> Session Chairs: Goki Eda
15:00 - 15:20	Invited Talk Sunmin Ryu, <i>Kyung Hee University</i> FUNCTIONALIZATION AND CHEMICAL PROPERTIES OF GRAPHENE

15:20 - 15:40	Ian D. Sharp, Walter Schottky Institute, Technical University of Munich GRAPHENE FUNCTIONALIZATION WITH STRUCTURE POLYMER BRUSHES
15:40 - 16:10	Tea break
16:10	Session18: Functionalization and Surface Modification of Graphene 2 Session Chairs: Jose Garrido
16:10 - 16:30	Wencai Ren, Institute of Metal Research, Chinese Academy of Science EFFICIENT PREPARATION, REDUCTION AND TRANSPARENT CONDUCTING FILM APPLICATION OF LARGE AREA GRAPHENE OXIDE SHEETS
16:30 - 16:50	O. Barbaros, Department of Physics, National University of Singapore SPIN TRANSPORT IN BILAYER GRAPHENE
16:50 - 17:10	Invited Talk Andrivo Rusydi, Department of Physics, Faculty of Science, National University of Singapore HIGH ENERGY OPTICAL CONDUCTIVITY STUDIES OF MULTILAYER GRAPHENE: EVIDENCE OF RESONANT ECITONIC EFFECTS AND POOR SCREENING IN GRAPHENE
17:10 - 17:30	Chua Lay-Lay, <i>National University of Singapore</i> ELECTRONIC AND OPTICAL PROPERTIES OF CHEMICALLY-FUNCTIONALIZED SUB- STOICHIOMETRIC GRAPHENE OXIDES
18:00 – 21:30	Conference Banquet (off site at Grand Shanghai Restaurant, preceded by a boat tour) The boat dock is adjacent to the hotel – as this is a regularly scheduled boat, please be on time as the boat leaves promptly.

09:00	Session 19: Chemistry of Graphene Composites and Derivatives 1 Session Chair: Zhang Hua
09:30 - 09:30	KEYNOTE TALK Robert C. Haddon, <i>University of California at Riverside</i> ADVANCES IN GRAPHENE CHEMISTRY
09:30 - 09:50	Benjamin V. Cunning, Queensland Micro- and Nanotechnology Centre ONE-POT COVALENT FUNCTIONALIZATION OF GRAPHENE
09:50 - 10:10	II-Kwoh Oh, Centre for Graphene Nano-Bio Transducers, Department of Mechanical Systems Engineering, Chonnam National University GREEN SYNTHESIS OF GRAPHENE NANO-SHEETS
10:10 - 10:40	Coffee break
10:40	Session 20: Chemistry of Graphene Composites and Derivatives 2 Session Chair: GAO HONG JUN
10:40 - 11:10	KEYNOTE TALK Shuit Tong Lee, Center of Super-Diamond and Advanced Films (COSDAF), City University of Hong Kong &Institute of Functional Nano & Soft Materials (FUNSOM), Soochow University FACILE SYNTHESIS AND APPLICATIONS OF GRAPHENES AND CARBON QUANTUM DOTS
11:10 -11:30	Kian Ping Loh, <i>Department of Chemistry, National</i> University of Singapore THE CHEMISTRY OF GRAPHENE
11:30 - 11:50	Chun Zhang, Department of Physics / Chemistry, National University of Singapore STRAIN-ENHANCED STABILIZATION AND CATALYTIC ACTIVITY OF METAL NANOCLUSTERS ON GRAPHENE
11:50 - 12:10	Insik In, Chungju National University PREPARATION OF WATER SOLUBLE GRAPHENE USING NON-COVALENT INTERACTIONS
12:10 - 14:00	Lunch break

14:00	Session 21: Chemistry of Graphene Composites and Derivatives 2 Session Chair: Shuit-Tong Lee, Chua Lay Lay
14:00 - 14:20	Invited talk Zhang Hua, Nanyang Technological University GRAPHENE-BASED NANOMATERIALS AND NANOSTRUCTURES: SYTHESIS, CHARACTERIZATION AND APPLICATIONS
14:20 - 14:40	Invited talk Liu Yun-Qi, Institute of Chemistry, Chinese Academy of Sciences SYNTHSIS AND ELECTRONIC PROPERTIES OF CHEMICAL VAPOR DEPOSITED FEW-LAYER GRAPHENES
14:40 - 15:00	Ming-Shien Hu, Institute of Atomic and Molecular Sciences, Academia Sinica SYNTHESIS OF STRAINED GRAPHENE NANOWALLS AS ELECTROCATALYST SUPPORT FOR METHANOL OXIDATION
15:00 - 15:20	Seokwoo Jeon, Department of Materials Science and Engineering, KAIST PREPARATION OF HIGH QUALITY GRAPHENE FLAKES THROUGH INTERCALATION
15:20 - 15:40	Goki Eda, Imperial College London PARTIALLY OXIDIZED GRAPHENE AS PRECURSOR TO GRAPHENE
15:40 - 16:50	TEA BREAK
16:50 - 17:10	Closing of Conference
17:30 - 21:00	Optional tours

14:00	Session 22: Properties and Applications of Graphene 1 Session Chair: Robert Haddon, Zhuang Liu
14:00 - 14:20	Invited Talk Gao Hong Jun, <i>Institute of Physics, Chinese Academy of</i> <i>Sciences</i> PROPERTIES AND APPLICATIONS OF CENTIMETER- SCALE, HIGHLY-ORDERED, CONTINUOUS GRAPHENE ON METAL SURFACES
14:20 - 14:40	Hak Rim Jeon, S <i>KKU</i> A WET CHEMICAL APPROACH TO GRAPHENE NANORIBBONS
14:40 - 15:00	Bao Qiaoliang, Department of Chemistry, National University of Singapore OPTICAL PROPERTIES OF GRAPHENE AND ITS APPLICATION IN MODE-LOCKING
15:00 - 15:20	Chen Wei, <i>Department of Chemistry/Physics, National</i> University of Singapore SURFACE TRANSFER DOPING OF EPITAXIAL GRAPHENE ON SIC
15:20 - 15:40	Hyeong Keun Kim, <i>SKKU</i> ELECTROMAGNETIC INTERFERENCE SHIELDING BY LARGE-SCALE GRAPHENE FILMS
15:40 - 16:10	Tea break
16:10	Session 23: Properties and Applications of Graphene 2 Session Chair: Vlikas Berry
16:10 - 16:30	Manu Jaiswal, <i>National University of Singapore</i> CONTROLLED HYDROGENATION OF GRAPHENE SHEETS AND NANORIBBONS
16:30 - 16:50	Xu Xiangfan, National University of Singapore THERMAL CONDUCTIVITY MEASUREMENTS IN SUSPENDED GRAPHENE
16:50 - 17:10	Closing of Conference
17:30 - 21:00	Optional Tours