

Monday, 25 June 2012

08:30	<p style="text-align: center;">2</p> <p style="text-align: center;"><u>General Session 1: Synthesis</u></p> <p style="text-align: center;">Plaza Auditorium Double Walled Carbon Nanotubes</p> <p>Prof Morinobu Endo. Research Center for Exotic Nanocarbons (JST), Shinshu University, Japan <u>Self-assembled monolayers of coordination nanoparticles as pre-catalysts for the growth of Single-Walled Carbon Nanotubes with narrow diameter distributions</u></p> <p>Vincent Huc. University of Paris-South. Paris. France, France <u>Tailoring the Diameter of Single-walled Carbon Nanotubes for Optical Applications</u></p> <p>MSc Yina Tian. Department of Applied Physics, Aalto University, Finland <u>Controllable CVD Synthesis of Single-Wall Carbon Nanotubes Using the Mist Flow Method</u></p> <p>Mr Yun Sun. Department of Chemistry, Naoava University, China <u>Single chirality armchair carbon nanotubes: from purification to controlled synthesis</u></p> <p>Ming Zheng, National Institute of Standards and Technology, United States</p>
10:30	<p style="text-align: center;">3</p> <p style="text-align: center;">Morning Tea & Posters</p> <p style="text-align: center;">Plaza Foyer</p>
11:00	<p style="text-align: center;">4</p> <p style="text-align: center;"><u>General Session 2: Synthesis</u></p> <p style="text-align: center;">Plaza Auditorium</p> <p>Controlled CVD Growth and Photochemical Engineering of Graphene towards Electronic Applications Prof Zhongfan Liu. Centre for Nanochemistry, College of Chemistry and Molecular Engineering, Peking University, China <u>Towards the total synthesis of Zig-Zag Single Walled Carbon Nanotubes with well defined Diameters</u></p> <p>Etienne Andre, University of Paris-South. Paris, France, France <u>The Limits of CNT Growth</u></p> <p>Dr Fena Dina. ITC. Hona Kona Polytechnic University, Hona Hom, Hona Kona, Hona Kong <u>The influences of electromagnetic fields on morphology of carbon nanotube fibres</u></p> <p>Mr Matthew James. University of Cambridge, United Kingdom <u>The effect of low supersaturation on the synthesis of metal-catalyst-free CNTs at 500 °C</u></p> <p>Mrs Marina Belkina. University of Western Sydney, Australia <u>Strategies towards morphology control in CNT fibre</u></p> <p>Ms Catharina Paukner, Dept Materials Science, University of Cambridge, United Kingdom</p>
12:45	<p style="text-align: center;">5</p> <p style="text-align: center;">Lunch & Posters</p> <p style="text-align: center;">Plaza Foyer</p>
13:45	<p style="text-align: center;">6</p> <p style="text-align: center;"><u>General Session 3: Synthesis</u></p> <p style="text-align: center;">Plaza Auditorium</p> <p>Super-Growth CNT Forests: Optimizing Form with Function Dr Don Futaba. Technology Research Association for Single Wall Carbon Nanotubes (TASC), AIST Tsukuba, Japan <u>Analytical Ultracentrifugation Determination of Dispersed SWCNT Core and Shell Densities</u></p> <p>Dr Jeffrey A Faan. National Institute of Standards and Technology, United States <u>Resolving Strain in Carbon Nanotubes and Graphene at the Atomic Level</u></p> <p>Dr Jamie H Warner. University of Oxford, United Kingdom <u>Alignment Control of Carbon Nanotube Forests from Random to Nearly Perfectly Aligned by Utilizing Crowding Effect</u></p> <p>Dr Mina Xu. 1. TASC, Japan. 2. AIST, Japan., Japan <u>Selective synthesis of semiconducting SWCNTs with high quality and narrow diameter distribution</u></p> <p>Dr Peng-Xiang Hou, Institute of Metal Research, Chinese Academy of Sciences, China</p>
15:15	<p style="text-align: center;">7</p> <p style="text-align: center;">Afternoon Tea & Posters</p> <p style="text-align: center;">Plaza Foyer</p>
16:15	<p style="text-align: center;">8</p> <p style="text-align: center;"><u>General Session 4: Properties</u></p> <p style="text-align: center;">Plaza Auditorium</p> <p><u>Synthesis, Physics, and Potential Applications of Aligned Carbon Nanotubes</u></p> <p>Zhifeng Ren. Boston College, United States <u>A Comparative Study of the Growth of Vertically-Aligned Carbon Nanotubes from FePt and Fe Catalyst</u></p> <p>Dr Shisheng Li. Institute of Metal Research, Chinese Academy of Sciences, China <u>Influence of the ultraviolet irradiation and high magnetic field on the transport properties of the individual C₆₀ peapod</u></p> <p>Mr Vladimir S Prudkovskiy. Laboratoire National des Champs Magnétiques Intenses. CNRS-UPR 3228. Toulouse, France, France <u>AFM Nanomanipulation of Gold Nanoparticles for Plasmonically Enhanced Raman Spectroscopy on Electrically Contacted SWNTs</u></p> <p>Kirsten M Strain, EaStCHEM School of Chemistry, the University of Edinburgh, Edinburgh, United Kingdom <u>Luminescence Properties of Oxygen-Doped Carbon Nanotubes</u></p> <p>Yuhei Mivauchi. Institute of Advanced Energy, Kyoto University, Japan & Japan Science and Technology Agency. PRESTO, Japan <u>Electron Emission from One-Atom-Thick Surfaces of Carbon Nanotubes and Graphene Nanoribbons Driven by Internal Electric Field</u></p> <p>Dr Xianlong Wei, National Institute for Materials Science (NIMS), Namiki 1-1, Tsukuba, Ibaraki, 305-0044, Japan, Japan</p>
18:00	<p style="text-align: center;">1</p> <p style="text-align: center;"><u>Welcome Reception & Poster Session</u></p> <p style="text-align: center;">Plaza Foyer</p> <p>Structured Graphene - Spinnable CNT and Beyond Ms Chi P Huvnh. CSIRO Materials Science and Engineering, Australia <u>High resolution SEM imaging of carbon nanotubes; deconvolution and retrieval of intrinsic nanotube dimensions</u></p> <p>Henrik Jackman. Karlstad University, Sweden <u>Formation and the Multiple Intra-Tube Junctions in Peapods Derived DWNTs</u></p> <p>Mr Ziwei Xu. ITC. Hona Kona Polytechnic University, Hona Hom, Hona Kona, Hona Kong <u>Formation of threaded nanotube fiber and giant carbon onions on C irradiated Cu grids</u></p> <p>Dr Shoab Ahmad, Government College University, Pakistan</p>

- Prof Dr Ursula Detlaff Wiedukowska, Korea University, School of Electrical Engineering, Korea
- CVD synthesis of small-diameter nitrogen-doped single-walled carbon nanotubes using acetonitrile
Dr Erik Einarsson, The University of Tokyo, Japan
- A comparison study of catalytic oxidation and acid oxidation to prepare carbon nanotubes for filling with Ru nanoparticles
Lei Ge, The University of Queensland, School of Chemical Engineering, Brisbane, Australia
- Reaction analysis on CNT Growth mechanism by eDIPS method using ^{13}C carbon source
Dr Takavoshi Hirai, Technology Research Association for Single Wall Carbon Nanotubes, Japan
- Effect of Gas Pressure on Growth Process of Horizontally Aligned Single-Walled Carbon Nanotubes on Quartz Substrates
Mr Taiki Inoue, Department of Mechanical Engineering, The University of Tokyo, Japan
- Highly Efficient Individual Dispersion of Single-Walled Carbon Nanotubes Using a Chitosan Derivative
Dr Duckiong Kim, Korea Institute of Machinery and Materials, Korea
- Dispersion property evaluation of various single-walled carbon nanotubes suspended with a biocompatible dispersant
Dr Duckiong Kim, Korea Institute of Machinery and Materials, Korea
- Fabrication and Characterization of Fully Flattened Carbon Nanotubes and Graphene Nanoribbons
Assoc Prof Ryo Kitaura, Nagaoka University, Japan
- Effect of sulfur precursors on diameter-controlling of SWCNTs by eDIPS method
Dr Masaharu Kivomiva, Technical Research Association for Single Wall Carbon Nanotube (TASC), Japan
- Inorganic Multilayered Structures on a Graphene and Their Application as the Novel Nanocatalyst Platform
Dr Ha-Jin Lee, Korea Basic Science Institute, Korea
- Narrow-Chirality Distributed Growth of Single-Walled Carbon Nanotubes by Diffusion Plasma CVD and its Growth Mechanism
Koshi Murakoshi, Department of Electronic Engineering, Tohoku University, Japan
- Efficient growth of single-walled carbon nanotubes from nanodiamond seeds
Dr Rvota Neaishi, Department of Applied Physics, Osaka University, Japan
- Effect of growth pressure on synthesis of vertically aligned carbon nanotubes using thermal chemical vapor deposition
Sangeun Park, BK21 Physics Research Division, Department of Physics, Sungkyunkwan University, Suwon 440-746, Republic of Korea, Korea
- Mechanism of Electric-Field-Induced Separation of Metallic and Semiconducting Single-Wall Carbon Nanotubes
Ms Fusako Sasaki, Technology Research Association for Single Wall Carbon Nanotubes (TASC), Japan
- Helium ion beam lithography for carbon nanotube nanogap electrodes
Cornelius Thiele, Karlsruhe Institute of Technology, Germany
- Influence of nitrogen incorporation on the diameter of single-walled carbon nanotubes
Mr Theerapol Thurakitserree, The University of Tokyo, Japan
- Vertically-aligned Carbon Nanotube Growth Using Iron Oxide Nanoparticles
Mr Kazuki Yamada, Tokyo University of Science, Japan
- Carbon Nanotube Synthesis by Electrochemical Reductive Deposition at Room Temperature
Dr Satoshi Yasuda, Hokkaido University, Japan
- Synthesis of Ultralong Semiconducting Defect-free Carbon Nanotubes
Dr Rufan Zhang, Department of Chemical Engineering, Tsinghua University, China
- Oxygen-isotope labeled titania: Ti^{18}O_2 and Ti^{17}O_2
János Koltai, Dept. of Biological Physics, Institute of Physics, Loránd Eötvös University, Pázmány Péter sétány 1/A, H-1117 Budapest, Hungary, Hungary
- Ferromagnetic properties of single walled carbon nanotubes doped with manganese oxide nanoparticles using an electrochemical method
Ki Nam Yun, Korea University, Korea
- Measurement of mass variations of fine CNT yarns due to particle adhesion
Catia Baron Aznar, University of Cambridge, United Kingdom
- Catalyst Control for Longer Single-Wall Carbon Nanotubes with Smaller Diameters
Ms Zhongming Chen, Department of Chemical System Engineering, School of Engineering, The University of Tokyo, Japan
- Degradation of Carbon Nanotubes in Field Emission
Takehiro Emi, Osaka University, Japan
- Characterization of titania nanotube arrays with carbon nanotubes for drug delivery applications
Karan Gulati, University of Australia, Australia
- Reduction of Boundary Thermal Resistance using Single-walled Carbon Nanotube Film
Yushi Iba, Department of Mechanical Science Engineering, Hiroshima University, Japan
- Transparent film heater from the spun multi-walled carbon nanotubes
Dr Hoonsik Jana, Korea Research Institute of Standards and Science, Korea
- Stacking of Water Molecules in Hydrophilic Graphene Oxides Characterized by Kelvin Probe Force Microscopy
Prof Dr Hae Kyung Jeona, Daejeon University, Korea
- Single Group 8 Metal Atom (Fe, Ru) Catalyzed C-C Bond Reorganization of Fullerenes
Dr Masanori Koshino, Nanotube Research Centre, National Institute of Advanced Industrial Science and Technology (AIST), Japan
- Field emission characteristics of novel point-type carbon nanotube emitters for next-generation x-ray sources
Hansung Lee, Faculty of Nanotechnology and Advanced Materials Engineering, Seiong University, Seoul, Korea
- Effect of laser heating on carbon nanotube bundles probed by Raman scattering
Dr Jose R Mialichi, UNICAMP, Campinas, Brazil, Brazil
- Exciton Dynamics in Hole-doped Single-walled Carbon Nanotubes
Shinichiro Mouri, Institute of Advanced Energy, Kyoto University, Japan
- Antiretrogradation Functions of Carbon Nanotubes with Defect Graphene-like Structures for Rubber Materials in Their Composites
Mr Tomoya Nagaoka, Department of Applied Chemistry, Faculty of Science, Tokyo University of Science, Japan
- The effect of femtosecond laser irradiation on photoluminescence emission of single wall carbon nanotubes
Satoru Shoji, Department of Applied Physics, Osaka University, Japan
- Field emission characteristics of carbon nanotube pastes with nm-sized Ni and TiO_2 powders
Sora Sim, Seiong University, Korea
- MeV electron-beam induced decoration of Pt nanoclusters on graphene for transparent conductive electrodes
Mr Myoung-Jun Cha, BK21 Physics Research Division, Sunakwunkwan University, Korea
- ECR-PECVD method for fabrication of few-layer graphene films
Chih-Chen Chang, Industrial Technology and Research Institute of Taiwan, Taiwan
- Fabrication and Characterisation of Chemically Converted Graphene (CCG) Enzymatic Hydrogel Electrodes
Miss Willo M Grosse, Intelligent Polymer Research Institute, ARC Centre of Excellence for Electromaterials Science, University of Wollongong, Australia
- Boron Nitride Nanoribbons Made From Exfoliation
Ching-eh Hung, NASA Glenn Research Center, Cleveland Ohio 44135, United States
- Graphene hybrid materials for energy conversion
Dr Nikolaos Karousis, Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, 48 Vassileos Constantinou Avenue, Athens, Greece
- Enhanced electrical conductivity of gold doped graphene films by microwave treatment
Yooseok Kim, BK21 Physics Research Division, Sunakwunkwan University, Suwon 440-746, Korea
- Carrier transport properties of multilayer graphene with turbostratic structure
Dr Rvota Neaishi, Department of Applied Physics, Osaka University, Japan
- The transparent conductive oxygen barrier graphene oxide film deposited via a self-assembly coating method
Dr Kwonwoo Shin, Korea Electronics Technology Institute, Korea
- Non-equilibrium thermal transport simulation of conical carbon nanofiber nanostructures

- Modulation of the Electronic Property of Graphene via the Hydroxylated and Defective SiO₂ Substrates
Shu-Jiuan Huang, Materials and Chemical Research Laboratories, Industrial Technology Research Institute, Taiwan
- Bio-molecule separation and delivery
Anita J Hill, CSIRO, Australia
- Multiple exciton generation by a single photon in semiconducting single-walled carbon nanotubes
Satoru Konabe, University of Tsukuba, Japan
- Lattice Properties of Graphene Containing Extended Defects Using A Quasi Harmonic Approximation
Dr Elie A Mouiaes, Universidade Federal de Minas Gerais (UFMG), Brazil
- Directional Neurite Outgrowth on Super-CNT substrate
Ms Li Fan, Tsinghua University, China
- A Study on Optically Active of Mussel Adhesive Coated Double Walled Carbon Nanotube
Prof Yong Chae Jung, Research Center for Exotic Nanocarbons (JST), Shinshu University, Japan
- Modification of CNFET properties via inorganic complexes grafting
Gurvan K Madaur, Laboratoire de Chimie Inorganique, France
- Are functionalized multi-walled carbon nanotubes biodegraded within the living body?
Dr Yoshinori Sato, Graduate School of Environmental Studies, Tohoku University, Japan
- Exploiting the self-assembly of amphiphilic hydrophobic proteins to engineer biocompatible surfaces
Dr Wenrong Yan, Deakin University, Australia
- In Vivo Biodistribution of Single-Walled Carbon Nanohorns Depending on Their Sizes
Dr Minfang Zhana, Nanotube Research Center, AIST, Japan
- Structural studies of titania nanotube
Tereza Brunatova, Charles University, Faculty of Mathematics and Physics, Dep. of Condensed Matter Physics, Prague, Czech Republic, Czech Republic
- Fabrication of single-crystalline core-shell nanofibres on porous alumina templates
Dr Jinhua Fan, CSIRO, Australia
- Titania nanotube arrays: improved drug loading and releasing characteristics by tailoring nanotube structures
Karan Gulati, University of Australia, Australia
- Single-walled boron nitride nanotubes synthesized in single-walled carbon nanotubes
Mr Ryo Nakanishi, Department of Chemistry, Nagoya University, Japan
- Synthesis, structural analysis and mechanical properties of aluminum matrix/boron nitride nanotube hybrid composites
Ms Maho Yamauchi, WPI Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS), Japan
- Functionalisation of boron nitride nanotubes: preparation, underlying mechanism and potential bio-applications
Dr Wenrong Yan, Deakin University, Australia
- Carbon Nanotubes as Catalyst Support in Polymer Electrolyte Membrane Fuel Cells
Prof Naotoshi Nakashima, Dept. Appl. Chem. & WPI-I2Kyushu University, Motooka 744, Fukuoka 819-0395, Japan & JST-CREST, Japan
- Characteristics of SWNT-Chitosan-alginate membrane, formed by evaporative casting method
Mr Ahmed Ali Alshahrani, Soft Materials School of Chemistry, University of Wollongong, Australia
- Electrochemical performance of α -Cyclodextrin and Carbon Nanotube Composites
Prof Dr Hae Kwun Jeon, Daegu University, Korea
- Supercapacitor based on tungsten oxide nanorods/MWCNT/PEDOT:PSS composite films
Mr Jin Joo Jung, Department of Physics, Kyungpook University, Daegu, Korea, Korea
- Graphene-mesoporous silica composite as a rechargeable lithium-sulfur battery cathode material
Mr Kyounghwan Kim, Korea Advanced Institute of Science and Technology, Korea
- Nitrogen doped CNTs for oxygen reduction reaction in acidic media
Rapidah Othman, The University of Queensland, School of Chemical Engineering, Brisbane, Australia
- Fully Flexible Organic Solar Cells based on Spinnable Carbon Nanotube Sheet Electrodes
Dr Kallista K Sears, CSIRO Materials Science and Engineering, Australia
- P-type doping of SWCNT transparent conductive films
Dr Jong Hun Han, Korea Electronics Technology Institute, Korea
- High-resolution microscopy of carbon nanotubes/polymer composites: understanding the molecular interactions for highly efficient organic solar cells
Mr Marco Notarianni, Queensland University of Technology, Australia
- Carbon nanotube composite membranes prepared by template synthesis using nanoporous alumina and catalyst-free chemical vapor deposition (CVD)
Taria Altalhi, School of Physical and Chemical Science, Flinders University, Australia
- The chemical environment resistance sensitivity of the defectless and Ar-plasma etched carbon nanotube and nanobud networks
Dr Ilva V Anoshkin, Aalto University, Finland
- Controlled Synthesis of Polymer/Carbon Nanotubes Composites in Organic and Aqueous Solutions
Dr Hoang The Ban, Technology Research Association for Single Wall Carbon Nanotubes, Japan
- Fabrication of nanocomposite of vertically-aligned CNTs in PDMS matrix
Mr JinHyeok Cha, Department of Mechanical Engineering, The University of Tokyo, Japan
- A fully vacuum-sealed miniature X-ray tube based on the triode CNT emitters
PhD Sungho Choi, 1Nano Electron-Source Creative Research Center, ETRI, Korea
- A new intrinsic desorption method for graphene-based gas sensors
Guillaume Ganuchaud, ONERA, France
- High-mobility carbon nanotube thin-film transistors on plastic fabricated by high-throughput transfer and flexo printing technique
Kentaro Higuchi, Department of Quantum Engineering, Nagoya University, Japan
- Boron Nitride Nanotube Reinforcement of SiC Composites
Janet B Hurst, NASA Glenn Research Center, United States
- CNT-organic-composited OLEDs driven by alternating current
So-Yeon Jun, Dept. Physics, Hankyong University of Foreign Studies, Korea
- Development of a highly dense triode CNT emitter for super-miniature X-ray tubes
Mr Jun-Tae Kang, 1Nano Electron-Source Creative Research Center, ETRI, Korea
- Carbon nanotube heater operating with low voltage
Dr Duckjona Kim, Korea Institute of Machinery and Materials, Korea
- Carbon nanotube wires for electromagnetic devices
Mr Lukasz Kurzepa, University of Cambridge, United Kingdom
- Facile Fabrication of Carbon Nanotube Devices on Various Substrates by Transfer Printing Method
Prof Ji-Yong Park, Department of Physics and Division of Energy Systems Research, Aioi University, Korea
- The use of Single-walled Carbon Nanotubes and polyaniline composite as ion selective electrode in Capacitive deionization (CDI)
Caijuan Yan, University of South Australia, China

19:30

Tuesday, 26 June 2012

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General Session 5: Optical Methods


Plaza Auditorium

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	<p>graphene Prof Riichiro Saito, Tohoku University, Japan Non-linear optical measurements on individual carbon nanotubes Dr Andreas Johansson, University of Jyväskylä, Finland Nanotubes- A Patents Perspective Dr Aniruddh (Andy) Mukherji, Griffith Hack Patent Attorneys, Australia</p>
10:30	<p>11 Morning Tea & Posters Plaza Foyer</p>
11:00	<p>12 General Session 6: Chemistry Plaza Auditorium Carbon nanotube/graphene hybrids: Design and applications Young Hee Lee, Department of Physics and Department of Energy Science, Sungkyunkwan University, Suwon, Korea, Democratic People's Rep Chemistry of carbon nanotubes in flow Enzo Menna, Università di Padova, Italy Defect Activated Propagation of Covalent Chemical Reactions on Carbon Nanotube Sidewalls Alexandra H Brozena, University of Maryland, College Park, United States SWNT Inks by Reductive Dissolution: Their Use in the Development of Transparent Conductive Films Dr Sian Foaden, Linde Nanomaterials, United States Using carbon nanotubes for a selective gas sensing Annick Loiseau, LEM, Onera-Cnrs, Chatillon, France CNT dispersion below the Krafft temperature: a route to improve the dispersion by micelle suppression and to minimize the surfactant content Ji Hyun Park, Seoul National University, GSCST, Korea</p>
12:45	<p>13 Lunch & Posters Plaza Foyer</p>
13:45	<p>14 General Session 7: Physical Chemistry Plaza Auditorium Studying the Unique Properties of Ultra-Clean, Nearly Defect-Free, Suspended Carbon Nanotubes Stephen B Cronin, University of Southern California, United States Electrochemical Processing of Single-Walled Carbon Nanotubes and related materials Mr Stephen A Hodae, Department of Chemistry, Imperial College London, United Kingdom Modification to carbon nanotube structure using electron irradiation Ms Katherine Russell McDonell, The University of Sydney, Australia Post-production purification of continuously spun CNT fibres by sonication Prof Alan H Windle, University of Cambridge, United Kingdom Monitoring the fabrication process flow of NO₂ SWCNT sensors using Raman spectroscopy Miroslav Haluska, Micro and Nanosystems ETH Zurich, Tannenstrasse 3, 8092 Zurich, Switzerland</p>
15:15	<p>15 Afternoon Tea & Posters Plaza Foyer</p>
16:15	<p>20 General Session 8: Physics and Modelling Plaza Auditorium Quantum Thermal Transport in Carbon Nanostructures Prof Wenhui Duan, Department of Physics, Tsinghua University, Beijing, China Electronic Structure and Electron Transport in Carbon-Based Nanosystems Jerry Bernholc, North Carolina State University, Raleigh, NC 27695-7518, United States Shear Stress Transfer in Carbon Nanotube Bundles Dr James A Elliott, University of Cambridge, United Kingdom A simple scheme of molecular electronic devices with carbon nanotubes electrodes Prof Yoke Khin Yap, Michigan Technological University, United States Strong water vapour effects on carbon nanotube fibres Ms Anieszka Ewa Lekawa-Raus, University of Cambridge, United Kingdom Meso through Nano Scale Characterization of CNT Yarn Strength Joe Severino, University of California, Los Angeles, United States Insights in the synthesis of carbon nanotubes from computer simulation Dr Christophe Bichara, CINAM, CNRS and Aix Marseille University, France</p>
18:30	<p>17 Poster Session Plaza Foyer</p>
19:00	
Wednesday, 27 June 2012	
08:30	<p>18 General Session 9: Graphene Plaza Auditorium Tuning the interface between epitaxial graphene and SiC(0001) Thomas Seidler, Lehrstuhl für Technische Physik, Germany Expanding the Application Space of Graphene-Based Materials Mainak Majumder, Nanoscale Science and Engineering Laboratory (NSEL), Mechanical and Aerospace Engineering, Monash University, Australia A Wet Chemical Approach Towards Single-Layer Graphene Dr Pawel Wagner, ARC Centre of Excellence for Electromaterials Science, University of Wollongong, Australia The mechanism of graphene CVD growth</p>

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	<p style="text-align: center;">Morning Tea & Posters Plaza Foyer</p>
11:00	<p style="text-align: center;">16 <u>General Session 10: Biology</u> Plaza Auditorium</p> <p style="text-align: center;"><u>The interplay between luminescent carbon nanotubes and their environment</u> Laurent Coenet, Université de Bordeaux, France Mimicking biological ion channels using nanotubes Dr Tamsyn A Hilder, Australian National University, Australia</p> <p><u>Cavity-Confinement of Magnetic Phases Inside Antibody Functionalized Carbon Nanotubes: Combination of Magnetic Attraction and Biomolecular Recognition for Cancer Cells Sorting</u> Dr Riccardo Marega, Department of Chemistry and Namur Advanced Research College (NARC), University of Namur (FUNDP), Rue de Bruxelles 61, Namur, 50, Italy</p> <p><u>Quantification of Biodistribution of PEG-Functionalized Single Wall Carbon Nanohorns in Mice by Using Gd2O3 Labels</u> Dr Minfana Zhana, Nanotube Research Center, AIST, Japan Carbon nanotube scaffolds for protein assembly Ms Catharina Paukner, Dept Materials Science, University of Cambridge, United Kingdom</p> <p><u>Fabrication of high density, void-free, vertically-aligned carbon nanotube membranes and their application to water treatment</u> Mr Kwang Jin Lee, School of Civil, Environmental and Architectural Engineering, Korea University, Korea</p>
12:45	<p style="text-align: center;">21 Lunch & Posters Plaza Foyer</p>
13:45	<p style="text-align: center;">22 <u>General Session 11: Electronics</u> Plaza Auditorium</p> <p style="text-align: center;"><u>Functional Inks Based on Monodisperse Carbon Nanomaterials</u> Mark Hersam, Department of Materials Science and Engineering, Northwestern University, United States The new electrical conductor based on carbon nanotubes Dr Krzysztof KK Koziol, Dept. Materials Science and Metallurgy, University of Cambridge, United Kingdom</p> <p><u>Binder-free carbon nanotube composite electrodes for high performance lithium ion batteries</u> Kaili Jiang, Tsinghua University, China</p> <p><u>Transport type control of single-walled carbon nanotubes thin film transistor by controllable nitrogen and fluorine doping</u> Dr Toshiaki Kato, Department of Electronic Engineering, Tohoku University, Japan Flexible and transparent all-carbon thin-film transistors and integrated circuits Prof Yutaka Ohno, Department of Quantum Engineering, Nagoya University, Japan</p>
15:15	<p style="text-align: center;">23 Afternoon Tea & Posters Plaza Foyer</p>
16:15	<p style="text-align: center;">24 <u>General Session 12: Devices/Applications</u> Plaza Auditorium</p> <p style="text-align: center;"><u>Highly transparent and conductive single-walled carbon nanotube films</u> Albert G Nasibulin, Aalto University School of Science, Finland Impact of Structural Defects on the Properties of CNT Yarns Dr Thuid S Gspann, University of Cambridge, Department of Materials Science, United Kingdom</p> <p><u>Inkjet Printing of High-Performance and Ultra-Flexible Single-Walled Carbon-Nanotube Transistors</u> Taishi Takenobu, Waseda University, Japan Ultralong Carbon Nanotubes for the Storage of Mechanical Energy Dr Rufan Zhang, Department of Chemical Engineering, Tsinghua University, China Rapid electrothermal response of high-temperature carbon nanotube film heaters Mr Dawid Janas, Department of Materials Science, University of Cambridge, United Kingdom</p> <p><u>Plasma Scribina: A rapid, maskless approach for patternable modification of CNT arrays</u> Mr Samuel KL Yick, The University of Sydney and CSIRO, Australia <u>Field emission properties from Carbon Nanotube</u> Prof Cheol Jin Lee, Korea University, Korea</p>
18:30	<p style="text-align: center;">25 Poster Session Plaza Foyer</p>
19:00	
Thursday, 28 June 2012	
08:30	<p style="text-align: center;">26 <u>General Session 13: Modelling</u> Plaza Auditorium</p> <p style="text-align: center;"><u>Photophysics of carbon nanotubes and graphene nanostructures: Many-body and geometric effects</u> Steven Louie, Department of Physics, University of California at Berkeley, and the Lawrence Berkeley National Laboratory, United States</p> <p><u>Computational Exploration of CNT/Graphene doping for CO2 Capture and Supercapacitor Applications</u> Sean Smith, Center for Nanophase Materials Sciences, Oak Ridge National Laboratory, United States</p> <p><u>Atomistic description of electron beam damage in nitrogen-doped graphene and carbon nanotubes</u> Dr Toma Susi, Aalto University, Finland</p> <p><u>Computational studies of single wall carbon nanotube and graphene growth</u> Prof Kim Bolton, School of Engineering, University of Borås, Sweden A Molecular Dynamic Study of SWNT Nucleation and Growth in CVD Method Professor Shigeo Maruyama, Department of Mechanical Engineering, The University of Tokyo, Japan</p>
10:30	<p style="text-align: center;">27 Morning Tea & Posters Plaza Foyer</p>

Fabrication of nanoparticle superlattice sheets
A/Prof Wenlong Chen, Monash University, Australia
Growing Boron Nitride Nanotube Films from Boron Ink Painting
Dr Luhua Li, Deakin University, Australia
Hexagonal BN atomic layer
Li Song, Research Center of Exotic Nanocarbons, Shinshu University and NSRL, University of Science and Technology of China, Japan
Boron nitride nanotubes for biological and medical applications
Dr Gianni Ciofani, Fondazione Istituto Italiano di Tecnologia, Italy

12:45

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Lunch
Plaza Foyer

13:45

<p>30 <u>Functional Carbon Composites: Controlled Synthesis</u> Meeting Room P2 <u>The Fibre Route to CNT Composites</u> Prof Alan H Windle, United Kingdom <u>Cross-linking MWCNTs by perfluorophenylazide (PFPA) for reinforcement of CNT spun fibers and unidirectionally aligned sheets</u> Kazumichi Nakamura, Department of Electrical and Electronic Engineering, Shizuoka University, Japan <u>Improving the mechanical properties of epoxy nanocomposite using multiwalled carbon nanotube functionalized by a novel plasma treatment</u> Mr Zhiaiana Chen, Institute for Frontier Materials, Deakin University, Australia <u>Towards large scale aligned carbon nanotubes based composite production</u> Dr Pascal Boulanger, Laboratoire Francis Perrin (CEA CNRS URA 2453), DSM-IRAMIS-SPAM, CEA Saclay, 91191 Gif sur Yvette, France, France <u>Flexible three-dimensional carbon nanotube/methylcellulose composites</u> Dr Lixiana Yuan, University of Sydney, Australia</p>	<p>39 <u>Graphene: Synthesis</u> Meeting Room P1 <u>Self-assembly of Chemically Converted Graphene for Energy Applications</u> Gaoquan Shi, Department of Chemistry, Tsinghua University, Beijing, China <u>Uniform single-layer graphene growth on SiO₂ substrate by diffusion plasma CVD and its growth mechanism</u> Dr Toshiaki Kato, Department of Electronic Engineering, Tohoku University, Japan <u>Autonomously controlled homogenous growth of wafer-sized high-quality graphene via a smart Janus substrate</u> Dr Donavun Wan, Shanghai Institute of Ceramics, CAS, China <u>Studies of graphene growth on copper using gradients of temperature and carbon concentration</u> Dr Johan Ek Weis, Depto. Física, Universidade Federal de Minas Gerais (UFMG), Brazil <u>Two selective growth modes for graphene on Cu substrate</u> Mr Wooseok Song, BK21 Physics Research Division, Sunakvunkwan University, Korea <u>Investigating Graphene Growth on Ni Surface Using Isotope-Labeled Alcohol Catalytic Chemical Vapor Deposition</u> Dr Pei Zhao, Department of Mechanical Engineering, The University of Tokyo, Japan</p>	<p>44 <u>Metrology & Methodology: Synthesis</u> Meeting Room P3 <u>Opportunities and Challenges for Carbon Nanomaterials in Electronic and Photovoltaic Devices</u> Mark Hersam, Department of Materials Science and Engineering, Northwestern University, United States <u>Feedback control and modeling of a laser assisted CVD process for carbon nanotube growth</u> Yoeri van de Burat, Eindhoven University of Technology, The Netherlands <u>Selective growth of well aligned ultralong carbon nanotubes out of randomly oriented short nanotubes in catalyst reaction substrates</u> Dr Rufan Zhang, Department of Chemical Engineering, Tsinghua University, China <u>Chemical Vapor Deposition Synthesis and Physical Properties of Horizontally Aligned Carbon Nanotube</u> Mr Tohru Watanabe, National Institute for Materials Science, Japan <u>Dynamic Characterization and Fabrication of Carbon Nanostructures</u> Prof Litao Sun, SEU-FEI Nano-Pico Center, Key Lab of MEMS of MOE, Southeast University, China</p>	<p>49 <u>Theory & Modeling of Carbon Nanotubes</u> Meeting Room P5 <u>The Origin of SWCNT's Chirality and Strategies of Chirality-Selection During Growth</u> Prof Fena Dina, ITC, Hona Kona Polytechnic University, Hona Kona <u>Atomic simulation of perfect single walled carbon nanotubes (SWCNT)</u> Mr Ziwei Xu, TC, Hong Kona Polytechnic University, Hona Kona, Hong Kona <u>Theoretical Analysis on Influence of Defects on AC Transport in Metallic Single-Walled Carbon Nanotubes</u> Mr Daisuke Hirai, Department of Materials Engineering, The University of Tokyo, Japan <u>Controlling the Electrical Behavior of Semiconducting Carbon Nanotubes via Tube Contact</u> Professor Helio Chacham, Universidade Federal de Minas Gerais, Brazil <u>Towards experimental measurement of anomalous dispersion forces between metallic nanotubes or nanowires</u> Prof John F Dobson, Queensland Micro and Nano Technology Centre, Griffith University, Australia <u>Charge Nitrogen Doped CNTs for CO₂ capture</u> Yan Jiao, School of Chemical Engineering, the University of Queensland: Centre for Computational Molecular Science (CCMS), Australia</p>	<p>53 <u>Non Carbon Nanotubes & Sheets:</u> Meeting Room P4 <u>Functionalization, dispersion, and cutting of boron nitride nanotubes in water</u> Prof Yoke Khin Yap, Michigan Technological University, United States <u>Thin Boron Nitride Nanotubes with Exceptionally High Strength and Toughness</u> Dr Yana Huang, School of Mechanical and Mining Engineering, University of Queensland, Australia <u>Fusion of "Black" and "White" Graphenes: A Composite Two-Dimensional BN-C Nanomaterial</u> Dr Amir Pakdel, National Institute for Materials Science (NIMS), Japan <u>Controlled synthesis of hexagonal boron nitride films on copper foil via low pressure chemical vapor deposition</u> Dr Teng Gao, Center for nanochemistry, College of Chemistry and Molecular Engineering, Peking University, China <u>Dynamic negative compressibility of few-layer graphene, h-BN and MoS₂</u> Professor Helio Chacham, Universidade Federal de Minas Gerais, Brazil <u>Colloidal Semiconductor Nanowires</u> Zhen Li, ARC Centre of Excellence for Functional Nanomaterials, Australian Institute for Bioengineering and</p>
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Afternoon Tea

Plaza Foyer

16:15	<p>32 <u>Functional Carbon Composites: Energy Storage</u> Meeting Room P2 <u>Carbon nanotube - metal oxide composites for lithium rechargeable batteries and supercapacitors</u> Hua Kun Liu. Institute for Superconducting & Electronic Materials. ARC Centre of Excellence for Electromaterials Science, Australia <u>CVD Nanotube Networks with Tailored Microstructure for High-Performance Transparent Conductive Electrodes</u> Dr Dona Youna Kim. Department of Chemical System Engineering. School of Engineering. The University of Tokyo. 7-3-1 Honso, Bunkyo-ku, Tokyo, Japan <u>MnO₂/PSS/CNTs composite electrodes synthesized by a layer-by-layer deposition method and its application in the membrane capacitive deionization technology</u> Juan Yana. SA Water Centre for Water Management and Reuse, University of South Australia, Australia <u>Vertically-aligned carbon nanotube membrane with zeolite imidazolate frameworks as selective layer for hydrogen separation</u> Lei Ge. The University of Queensland. School of Chemical Engineering, Brisbane, Australia <u>3D Carbon Nanomaterials for Energy Applications</u> Prof Yona Liu. Institute of Advanced Materials for Nano-Bio Applications and School of Ophthalmology and Optometry. Wenzhou Medical College, China</p>	<p>40 <u>Graphene: Characterisation</u> Meeting Room P1 <u>Fibers of solution-spun wrinkled graphene</u> Professor Seon Jeona Kim. Center for Bio-Artificial Muscle and Department of Biomedical Engineering. HanYang University, Seoul, Korea <u>Dirac Spectrum in Strongly Bound Graphene System</u> Mr Yuanchang Li, Department of Physics. Tsinghua University, Beijing, China <u>Raman spectroscopy of graphene grown on copper substrates</u> Dr Sara D Costa, Dep. de Fisica, Universidade Federal de Minas Gerais. Belo Horizonte, Brazil <u>XAFS and TEM-EELS studies on the electronic state and crystallographic structure of graphene on nickel catalyst</u> Dr Takashi Matsumoto. Low-power Electronics Association & Project (LEAP). Japan <u>G band Raman intensity of twisted bilayer graphene</u> Dr Kentaro Sato. Tohoku University, Japan</p>	<p>45 <u>Metrology & Methodology: Reaction</u> Meeting Room P3 <u>Absorption and luminescence microscopies at the single nanotube level</u> Laurent Coanet. Université de Bordeaux, France <u>Molecules Interaction Directed Separation of Semiconducting/Metallic Single-Walled Carbon Nanotubes</u> Prof Jin Zhana. Center for Nanochemistry. China <u>Single-Wall Carbon Nanotube Reference Materials -Tools for Metrology</u> Dr Jeffrey A Faan. National Institute of Standards and Technology. United States <u>Chemical Reactivity of Single-Walled Carbon Nanotubes upon Their Chiral Structure</u> Dr Hua Jiana. Department of Applied Physics. Aalto University. Finland <u>Observation of fusion reactions in Single-walled Carbon Nanotubes using micro-sized nanocarbon heater</u> Mr Sihan Zhao. Department of Chemistry. Nagoya University, Japan</p>	<p>50 <u>Theory & Modelling of Graphene</u> Meeting Room P5 <u>Electromechanical actuation of pristine graphene and graphene oxide: origin and optimization</u> Zhe Liu. Department of Mechanical and Aerospace Engineering. Monash University. Australia <u>Electronic structures of graphene ribbons encapsulated in carbon nanotube</u> Dr Susumu Okada. University of Tsukuba, Japan <u>Angle dependence of the Landau level spectrum in twisted bilayer graphene</u> Student Youna-Hwan Hyun. Department of Physics. Sunakvunkwan University. Korea <u>Site-dependent Stability and Electronic Structure of Single Vacancy Point Defects in Hexagonal Graphene Nanoflakes</u> Dr Hongqina Shi. Applied Physics. RMIT University. Melbourne, Victoria. 3000. AUST; CSIRO Materials Science and Engineering. Clayton, Victoria. Australia <u>Energetics and electronic structures of graphene corner edges</u> Nauven Thanh Cuong. National Institute of Advanced Industrial Science and Technology, Japan</p>	<p>54 <u>Non Carbon Nanotubes & Sheets:</u> Meeting Room P4 <u>Vibronic fine structure in high-resolution x-ray absorption spectra from boron nitride nanotubes</u> Mladen Petracic. Department of Physics and Center for Micro and Nano Sciences and Technologies, University of Rijeka. Croatia <u>Plasma functionalization and doping of nanotubes</u> Dr Luhua Li. Institute for Frontier Materials, Deakin University, Australia <u>Polymer-Based Plasmonic Superlattice Nanosheets</u> Mr Yi Chen. Department of Chemical Engineering. Monash University, Australia <u>Highly Flexible MoS₂ Thin-Layers Transistor with Ion Gel Dielectrics</u> Taishi Takenobu. Waseda University, Japan <u>Electrically Tunable Band Gap in Silicene</u> Dr Viktor Zólvomi, Lancaster University, United Kingdom</p>
17:45					
19:00	<p>33 Conference Dinner Plaza Terrace Room</p>				
22:00					

Friday, 29 June 2012

08:30	<p>34 <u>Functional Carbon Composites: Controlled Synthesis</u> Meeting Room P2 <u>Conducting polymers and carbon nanostructures</u> Prof John M Bell. Queensland University of Technology. Australia <u>Micro-patternable carbon nanotube-copper composite. exceeding current density tolerance of metals by over 100</u></p>	<p>41 <u>Graphene: Reactions/Applications</u> Meeting Room P1 <u>Graphene-Based Flexible Energy Storage Devices</u> Hui-Ming Chena. ShenYuan National Laboratory for Materials Science. Institute of Metal Research, Chinese</p>	<p>46 <u>Metrology & Methodology: Characterisation</u> Meeting Room P3 <u>Atomic level imaging and spectroscopy of nano-carbon materials</u> Masanori Koshino. National Institute of Advanced Industrial Science and Technology (AIST). Japan <u>Pattern of fragmentation and generation of</u></p>	<p>51 <u>Theory & Modelling of Nanotubes and Sheets</u> Meeting Room P5 <u>Atomistic Modelling of CVD Growth of Carbon Nanotubes and Graphene</u> Dr James A Elliott, University</p>	<p>55 <u>Non Carbon Nanotubes & Sheets:</u> Meeting Room P4 <u>Near-band Edge Optical Properties of Hexagonal Boron Nitride Tubes and Sheets</u> Annick Loiseau. LEM ONERA/CNRS. France <u>Anomalous response of supported few-layer hexagonal boron</u></p>
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<p>Technology Research Association for Single Wall Carbon Nanotubes (TASC). Japan Mimicking the Chain structure of Polymers with Long Single-walled Carbon Nanotubes for Mechanically Durable and Highly Conductive Elastomeric Composites Dr Seisuke Ata. Technology Research Association for Single Wall Carbon Nanotubes, Japan Effect of Polymer Embedding on the DC Electrical Conductivity of CNT Yarns Jeronimo Terrones. University of Cambridge, United Kingdom Single-walled carbon nanotube networks with controlled density and morphology for sensing applications Dr Zhaoyun Han. Plasma Nanoscience Centre Australia (PNCA). CSIRO Materials Science and Engineering, Australia</p>	<p>MS Jiao and Shao, Tianjin University, China <u>Functionalization of exfoliated graphene</u> Solon Economopoulos, Theoretical and Physical Chemistry Institute. National Hellenic Research Foundation. Greece <u>Covalent modification of chemically converted graphene with polycaprolactone to produce conductive and biocompatible composites</u> Dr Eoin Murray. Intelligent Polymer Research Institute, University of Wollongong. NSW. Australia. Australia <u>Thickness. Stacking Order. Single and Double-Sided Dependent Photochlorination of Graphene</u> Dr Lin Zhou. Center for Nanochemistry. College of Chemistry and Molecular Engineering, Peking University, China</p>	<p>College University. CASP. Church road. Lahore 54000. Pakistan, Pakistan <u>Nitrogen-induced catalyst restructuring for epitaxial growth of carbon nanotubes</u> Prof Alan H Windle. Dept. Materials Science and Metallurgy. University of Cambridge, United Kingdom <u>Multi-probe AFM Electrical Characterization and Tip Enhanced Raman Spectroscopy of Graphene on Silicon/Silicon Oxide Substrates</u> Dr Anthony Quinn, Lastek. Australia <u>A comprehensive study of phonon dynamics in semiconducting single-walled Carbon Nanotubes using Time-resolved incoherent anti-Stokes Raman spectroscopy</u> Mr John M Nesbitt. OLM Group University of Southampton (UK), United Kingdom <u>Measuring the axial and radial thermal conductivities of carbon nanotube fibres</u> Mr Matthew PW James. University of Cambridge, United Kingdom <u>High resolution SEM imaging of carbon nanotubes: deconvolution and retrieval of intrinsic nanotube dimensions</u> MSc Henrik Jackman. Department of Physics and Electrical Engineering, Karlstad University, Sweden</p>	<p><u>Amino Acid Residues Adsorbed on Carbon Nanotubes</u> Katsumasa Kamiva. University of Tsukuba. Japan <u>Two distinct ballistic processes in graphene at Dirac point: short time ultra-relativistic vs long time nonrelativistic</u> Meir Lewkowicz, Ariel University Centre of Samaria, Ariel, Israel <u>Core level binding energies of defected and functionalized graphene</u> Dr Toma Susi. Aalto University, Finland <u>Electronic and structural properties of B-C-N layers and nanotubes: the role of the nitrogen content</u> Professor Helio Chacham. Universidade Federal de Minas Gerais, Brazil <u>Mechanical and Thermal Properties of Hydrogenated Graphene</u> Dr Qina-Xiana Pei, Institute of High Performance Computing. A-STAR. Singapore <u>Mechanism of Super lubricity between Mismatched Graphene Layers</u> Mr Ziwei Xu. ITC. Hong Kong Polytechnic University. Hung Hom, Hong Kong. Hong Kong</p>	<p><u>Towards Single-layer Patchwork: BNG Hybrid Structure with Ziazaa Linking Edges</u> Dr Yabo Gao, Center for Nanochemistry. College of Chemistry and Molecular Engineering, AAIS. Peking University. China <u>Nano-engineered titania nanotube arrays as drug-releasing implants for advanced bone therapeutics</u> Mr Karan Gulati. School of Chemical Engineering. The University of Adelaide, Australia</p>
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10:30

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Morning Tea
Plaza Foyer

11:00

36
Functional Carbon Composites: Carbon - metal/Polymers Composites
Meeting Room P2
Supramolecular Hybrid of Metal Nanoparticles. Porphyrin Polymer and Semiconducting Single-walled Carbon Nanotubes
Prof Naotoshi Nakashima. Dept. Appl. Chem. & WPI-I2CNER, Kvushu University. Motoooka 744. Fukuoka 819-0395. Japan. JST-CREST, Japan, Japan

42
Graphene: Applications 2 (Composite)
Meeting Room P1
Mechanics of roll transfer of graphene onto polymeric substrate
Jae-Hyun Kim. Korea Institute of Machinery & Materials. Korea
Graphene/AaTCNQ nanocomposites: synthesis, characterization and morphology study
Arlene B D S Nossol, Monash University,

47
Metrology & Methodology
Meeting Room P3
Characterizations of atomic thin films
Li Song. Research Center of Exotic Nanocarbons, Shinshu University. Japan
Chirality Selective Growth of Aligned Single-Walled Carbon Nanotubes on Graphite Surface
Dr Yabin Chen. Center for Nanochemistry. Peking University, China

	<p>Dr Michael B Jakubinek, National Research Council Canada. Canada Preparation and Mechanical Properties of the Silane-modified Multi-walled Carbon Nanotubes/Epoxy Nanocomposites Mr Oi Dong, Beihang University, China. China Synthesis of Graphene/Silica Nanocomposites and Its Application in Natural Rubber Chunfang Fena, Institute for Frontier Materials, Deakin University, Australia Study of Prussian blue properties and formation on carbon nanotubes using in situ electrochemical techniques Edson Nossol, Universidade Federal do Paraná, Monash University, Brazil</p>	<p>Honawei Zhu, Tsinghua University, China Graphene/Carbon Nanotube Hybrid-Based Transparent 2D Optical Array Dr Un Jeon Kim, Frontier Research Lab.Samsung Advanced Institute of Technology (SAIT), P. O. Box 111, Suwon 440-600, Korea, Korea Graphene-based materials and devices for soft electronics and photonics ProfDr Sung-Yool Choi, KAIST, Korea</p>	<p>Department of Biotechnology and Chemical Technology, Aalto University, Finland Performance of spherical aberration corrected electron microscope equipped with cold field emission electron gun operated at low accelerating voltages Yukihito Kondo, EM Business Unit JEOL Ltd, Japan Spinning and Characterization of Carbon Nanotube Yarns from Rapid Grown Vertically Aligned Carbon Nanotube Forest Toru Iijima, Department of Frontier Materials, Nagoya Institute of Technology, Gokiso-cho, Showa-ku, Nagoya, Japan Self-configuring printed devices Prof Mike J O'Connell, Arizona State University, United States</p>		
<p>12:45</p>	<p>37 Lunch Plaza Foyer</p>				
<p>13:45</p>	<p>38 Functional Carbon Composites: Catalysis Meeting Room P2 Advances in the synthesis, separation and applications of carbon nanomaterials Professor Andrew T Harris, University of Sydney, Australia Post-processing on dry-spun CNT fibers for reinforcement Dr Yoku Inoue, Department of Electrical and Electronic Engineering, Shizuoka University, Japan Carbon Nanomaterials as Metal-free Oxygen Reduction Catalysts Prof Yona Liu, Institute of Advanced Materials for Nano-Bio Applications and School of Ophthalmology and Optometry, Wenzhou Medical College, China Control of Reactivity in Carbon Nanoreactors Mr William A Solomonsz, University of Nottingham, United Kingdom Electromechanical Behavior of Carbon Nanohorns and the Conductance Responses to Light Irradiation Jianxun Xu, National Institute for Materials Science, Japan</p>	<p>43 Graphene: Applications 3 (Structure) Meeting Room P1 Graphene Nanosheet Based Electrode Materials for Capacitive Deionization of Saline Water: Modification and Assembly Dr Baoping Jia, Centre for Water Management and Reuse, University of South Australia, Australia Using oriented graphene hydrogel film as a nano-scaffold to enable a new generation of polyaniline-based supercapacitors Mr Yufei Wang, Monash University, Australia Graphene Composites: Biodegradable, Biocompatible and Electronically Conductive Dr Brianna C Thompson, ARC Centre of Excellence for Electromaterials Science, University of Wollongong, Australia Could we find real application of graphene as conductive additive in lithium ion battery? Dr Fana-Yuan Su, Tianjin University, China</p>	<p>48 Metrology & Methodology: Device Meeting Room P3 Electrochemical protection of thin film electrodes in solid state nanopores Stefan Harrer, IBM Research Laboratory Australia, Australia The development of next generation electrical wires based on carbon nanotube fibres Ms Agnieszka Ewa Lekawa-Raus, University of Cambridge, United Kingdom Formation of well defined percolated arrays of SWNTs into micropatterns of P3HT for solar cell applications David R Barbero, Physics Department, Umeå Universitet, Sweden Feasibility of high frequency oscillator consisting of carbon nanotubes Ryosuke Senga, Osaka University, Japan High performances and low variability in SWCNT-network transistors achieved by homogeneous monolayer-film formation Dr Shieckazu Ohmori, Nanotube Research Center, National Institute of Advanced Industrial Science and Technology, Japan Conduction mechanisms in on- and off-states of Thin Film Transistors of length-sorted Single-Wall Carbon Nanotubes Dr Yuki Kuwahara, Nanotube Research</p>		

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