

* Carbon2014 Program Timetable

- T1:** Graphene
- T2:** CNTs and Related Carbon Nanomaterials
- T3:** Precursors, Carbon Fibers, and Composites
- T4:** Industrial Graphites, Carbon Industry News, and Carbon Blacks
- T5:** Porous Carbons, Carbons for Health and Environmental Protection
- T6:** Carbons for Sustainable Energy Conversion and Storage, and Carbons for Energy Saving
- T7:** Analysis, Characterization, Computation and Modelling of Carbons

Program	CARBON Editors' Workshop	Welcome Reception	Opening / Conference	Conference / Panel Discussion	Conference/ Excursion	Conference / Banquet	Closing		
Date/ Time	June 29 (Sun)		June 30 (Mon)	July 1 (Tue)	July 2 (Wed)	July 3 (Thu)	July 4 (Fri)		
8:00-8:30			Registration	Registration	Registration	Registration	Registration		
8:30-8:50			Opening Ceremony (8:30-9:00)	T1 T3 T6 T5 T6 T4	T1 T2 T3 T5 T6 T7	T1 T2 T3 T5 T6 T3	T2 T5 T5 T6 T6 T7		
8:50-9:10			PL01 Jonathan N. COLEMAN (9:00-9:50)	T1 T3 T6 T5 T6 T4	T1 T2 T3 T5 T6 T7	T1 T2 T3 T5 T6 T3	T2 T5 T5 T6 T6 T7		
9:10-9:30						NC-			
9:30-9:50			Break (20 min)			Symposium			
9:50-10:10									
10:10-10:30									
10:30-10:50			Break (20 min)	Break (20 min)	Break (20 min)	Break (20 min)	Break (20 min)		
10:50-11:10			T1 T2 T3 T5 T6 T7	PL02 Lianmao PENG (10:50-11:40)	PL03 Pulickel AJAYAN (10:50-11:40)	PL04 Heui Jae PAHK (10:50-11:40)	PL05 Makoto ENDO (10:50-11:40)		
11:10-11:30									
11:30-11:50									
11:50-12:10			Lunch (11:40-13:10)	Lunch (11:40-13:10)	Lunch (11:40-12:50)	Lunch (11:40-13:10)	Lunch (11:40-13:10)		
12:10-13:00			Lunch (12:10-13:30)						
13:10-13:30	Registration (13:00~19:00)			T1 T3 T6 T5 T2 T4	Excursion (13:00-18:00)	T1 T2 T3 T5 T6 KIMS	T2 T5 T5 T6 T6 T7		
13:30-13:50	[Room: SAMDA HALL] CARBON Editors' Workshop on 'Graphene-based materials: preparation, theory and applications' (13:30~19:00)								
13:50-14:10									
14:10-14:30			T1 T2 T3 T5 T6 T7						
14:30-14:50									
14:50-15:10				Break (20 min)				Break (20 min)	Closing Remark (14:50-15:20)
15:10-15:30								Break	
15:30-15:50				T1 T3 T6 T5 T2 T1				T1 T2 T5 T6	
15:50-16:10								KRICT	
16:10-16:30									
16:30-16:50				T1 T2 T3 T5 T6 T7					
16:50-17:10			[5F, FOYER] Poster Session 1 16:30-17:30		[5F, FOYER] Poster Session 2 16:30-17:30				
17:10-17:30									
17:30-18:00					Break (30 min)				
18:00-20:00	Break (30 min)				[TAMNA B] Banquet (18:00-20:00)				
21:00	[OCEAN VIEW] Welcome Reception (19:30-21:00)		[SAMDA HALL] Panel Discussion (19:00-21:00)						

June 30 (Mon)						
Date/Time	Registration					
8:00-8:30	Registration					
8:30-9:00	Opening Ceremony					
9:00-9:50	Room: TAMNA A	(Chair: Robert HURT) [PL01] Tiny but Mighty: How Liquid Processing of Carbon-based Nanomaterials will Lead to Future Applications <i>Jorathan N. COLEMAN (Trinity College Dublin, Ireland)</i>				
9:50-10:10	Break (20 min)					
Room	HALLA A	HALLA B	SAMD A	303	401	402
Session	T1: Graphene	T2: CNTs and Related Carbon Nanomaterials	T3: Precursors, Carbon Fibers, and Composites	T5: Porous Carbons, Carbons for Health and Environmental Protection	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving	T7: Analysis, Characterization, Computation and Modelling of Carbons
Chair	Alberto BIANCO, Sungyool CHOI	William MILNE, Young Ahn KIM	Xuanke LI, Chong Min KOO	An-Hui LU, Myung-Soo KIM	Fengliu LOU, Young Hwan CHU	Colin BOUSIGÉ, Suresh BHATIA
10:10-10:30	[10:10-10:50] [KL11-01] Interesting Properties of Strained and Defective Graphene <i>Kian Ping LOH (National University of Singapore, Singapore)</i>	[10:10-10:50] [KL12-01] Carbon Nanotube's Nanospace for Nanotechnology <i>Hisami SHINOHARA (Nagoya University, Japan)</i>	[10:10-10:50] [KL13-01] Carbon Materials for the Future <i>Rodney S. RUOFF (Ulsan National Institute of Science and Technology, Korea)</i>	[ORT5-01] Molten-Salt Route to the Synthesis of Nitrogen Doped Porous Carbon for Adsorption <i>Xuzhen WANG (Dalian University of Technology, China)</i>	[ORT6-01] Electrolyte membrane modification by Graphene Oxide (GO) for the Vanadium Redox Flow Battery (VRB) <i>Young Hwan CHU (Sangji University, Korea)</i>	[ORT7-01] Refining Carbon Pore Size Analysis by Using Adsorption Data of Multiple Gases at Various Temperatures and 2D-NLDFIT Modeling <i>Jacek JAGIELLO (Micromeritics Instrument Corporation, USA)</i>
10:30-10:50	[10:30-11:10] [OR11-01] Controlling Graphene Growth in a Solid Carbon Source based Chemical Vapor Deposition Method <i>Goalip KALITA (Nagoya Institute of Technology, Japan)</i>	[10:50-11:20] [IL12-01] CVD Growth of Single-Walled Carbon Nanotubes with Controlled Structure for Nanodevice Applications <i>Jin ZHANG (Peking University, China)</i>	[ORT3-01] Carbon Fiber/Copper Core-Shell Hybrid for Thermally Conductive Composites <i>Chong Min KOO (Korea Institute of Science and Technology, Korea)</i>	[ORT5-02] An Oil Adsorbent based on Three-Dimensional Ordered Porous Carbon with Hydrophobicity <i>Shi QIU (China University of Petroleum, China)</i>	[ORT6-02] Pyrolytic Carbon from Graphene/CNT/Polyaniline Composite with Enhanced Cycling Stability for Flexible Supercapacitors <i>Shuangfan FAN (Harbin Engineering University, China)</i>	[ORT7-02] Diffusion of Methane in Silicon Carbide-Derived Carbon: Experiment and Simulation <i>Suresh BHATIA (The University of Queensland, Australia)</i>
11:10-11:30	[11:10-11:50] [OR11-02] Growth of Monolayer Graphene with Minimized Wrinkles Using GO Interfacial Layer <i>Jong Min KIM (Korea Advanced Institute of Science and Technology, Korea)</i>	[11:20-11:50] [IL12-02] Detonation-induced Conductance Improvement in Cup-stacked Carbon Nanotube <i>Morihito Endo (Shizuoka University, Japan)</i>	[ORT3-02] Pitch based Carbon Fibers Reinforced One-dimensional Carbon/Carbon Composites with Ultrahigh Thermal Conductivity <i>Xuanke LI (Wuhan University of Science & Technology, China)</i>	[ORT5-03] Hierarchically Structured MFC/CNT Composite for Gas Adsorption <i>Chongmin ZHU (The University of Queensland, Australia)</i>	[ORT6-03] Fabrication of Graphene/CNT/Polyaniline Composite with Enhanced Cycling Stability for Flexible Supercapacitors <i>Shuangfan FAN (Harbin Engineering University, China)</i>	[ORT7-03] Pyrolytic Carbon Matrices Nanotubes: A Review of Characterization and Modeling Studies <i>Gerard VIGHOLETS (University Bordeaux, France)</i>
11:30-11:50	[11:30-11:50] [OR11-03] Defective Graphene as Supporting Material in Platinum-based Catalyst <i>Jiao-Jing SHAO (Tianjin University, China)</i>	[11:30-11:50] [OR11-04] Preparation of Graphene with Layer Control by CVD Method over Copper(II) Carbonate Catalyst at Atmospheric Pressure <i>Almond KASIHICI (Research Institute of Petroleum Industry, Iran)</i>	[ORT3-03] Effect of Activated Carbon Nanofibers Supported with Metal Oxide Nanoparticles on H2S Adsorbent <i>Ehsan BAJAJ (Carbon Convergence Materials Research Center, Korea)</i>	[ORT5-04] Structure Controlled Synthesis of Porous Carbons and Their Applications <i>An-Hui LU (Dalian University of Technology, China)</i>	[ORT6-04] Optimization of Multi-Walled Carbon Nanotube based CFx Electrodes for Improved Primary and Secondary Battery Performances <i>Brahendra PRADHAN (Nanoholdings, USA)</i>	[ORT7-04] Building Realistic Models of Kerosene using Hybrid reverse Monte Carlo Simulations <i>Colin BOUSIGÉ (MIT-CNRS, France)</i>
11:50-12:10	[11:50-12:10] [OR11-04] Preparation of Graphene with Layer Control by CVD Method over Copper(II) Carbonate Catalyst at Atmospheric Pressure <i>Almond KASIHICI (Research Institute of Petroleum Industry, Iran)</i>	[11:50-12:10] [OR11-05] Growth of Centimeter-Tall Carbon Nanotube Forests <i>Jaeguen LEE (POSTECH, Korea)</i>	[ORT3-04] Preparation of Pitch from Pyrolyzed Fuel Oil (PFO) by Electron Beam Treatment for Melting <i>Jin Young JUNG (Chungnam National University, Korea)</i>	[ORT5-05] Nitrogen-doped Porous Carbons from Coal Liquefaction <i>Jieshan QIU (Dalian University of Technology, China)</i>	[ORT6-05] Study on GO/MnO2 Composite with High Specific Capacitance by Heat Treatment <i>Xiao-Min WANG (Taiyuan University of Technology, China)</i>	[ORT7-05] Water and Methanol as Potential Molecular Probe for Oxygen Functional Groups on Carbon Surfaces <i>Dong DO (University of Queensland, Australia)</i>
12:10-13:30	Lunch					
Room	HALLA A	HALLA B	SAMD A	303	401	402
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Chair	Sang Duk KIM, Geon-Woong LEE	Hisami SHINOHARA, Young Chul CHOI	Hojun LI, Seung Min KIM	Yunsuk HUH, Sangho LEE	Weilin XU, Jongbok KIM	Yasuhiko YAMADA, Wonoh LEE
13:30-13:50	[13:30-14:00] [IL11-01] The Atomic Structure of Defects and Dopants in Graphene <i>Jens WALTNER (University of Oxford, UK)</i>	[13:30-14:00] [IL12-03] Dry Manufacturing of SWNT Thin Films for Flexible Electronics Applications <i>Esiko KAPPINEN (Aalto University, Finland)</i>	[13:30-14:00] [IL12-03] Dry Manufacturing of SWNT Thin Films for Flexible Electronics Applications <i>Esiko KAPPINEN (Aalto University, Finland)</i>	[13:30-14:10] [KL15-01] Porous Activated Carbons as Global Healthcare Solutions for the 21st Century <i>Sergey MIRKHALOVSKY (Nazarbayev University, Kazakhstan)</i>	[13:30-14:00] [IL18-01] Functional Carbon Materials for Supercapacitors and Dye-sensitized Solar Cells <i>Jason Jishan QIU (Dalian University of Technology, China)</i>	[ORT7-07] Thermochemistry and Kinetics of the Graphene-NO Reaction: Monomer vs Dimer Mechanism <i>Lubisa RADOVIC (Penn State University and University of Concepcion, USA)</i>
13:50-14:10	[14:00-14:20] [OR11-05] Fabrication of Zigzag Graphene Edges <i>Wei Sun LEONG (National University of Singapore, Singapore)</i>	[14:00-14:30] [IL12-04] Flexible Electronics Applications of Carbon Nanotube Thin Films <i>Yusaku OHNO (Nagoya University, Japan)</i>	[14:00-14:30] [IL12-04] Flexible Electronics Applications of Carbon Nanotube Thin Films <i>Yusaku OHNO (Nagoya University, Japan)</i>	[14:00-14:30] [IL12-04] Flexible Electronics Applications of Carbon Nanotube Thin Films <i>Yusaku OHNO (Nagoya University, Japan)</i>	[14:00-14:30] [IL18-02] A Class of High Performance non-platinum Oxygen Reduction Electrocatalysts based on Cheap Carbon Blanks for Fuel Cells <i>Weilin XU (Chungshun Institute of Applied Chemistry, Chinese Academy of Science, China)</i>	[ORT7-08] Nitrogen-containing Graphene Analyzed by X-ray Photoelectron Spectroscopy <i>Yasuhiko YAMADA (Chiba University, Japan)</i>
14:10-14:30	[14:20-14:40] [OR11-06] Boron Doped Single Layer Graphene <i>Young Ahn KIM (Chonnam National University, Korea)</i>	[14:20-14:40] [OR11-06] Boron Doped Single Layer Graphene <i>Young Ahn KIM (Chonnam National University, Korea)</i>	[14:20-14:40] [OR11-06] Boron Doped Single Layer Graphene <i>Young Ahn KIM (Chonnam National University, Korea)</i>	[ORT7-07] Antioxidant Behaviors of Graphene-Based Materials <i>Yang QIU (Brown University, USA)</i>	[14:20-14:40] [IL18-02] A Class of High Performance non-platinum Oxygen Reduction Electrocatalysts based on Cheap Carbon Blanks for Fuel Cells <i>Weilin XU (Chungshun Institute of Applied Chemistry, Chinese Academy of Science, China)</i>	[ORT7-09] X-ray Photoelectron Spectroscopy Analysis of Graphene including Pentagons and Heptagons <i>Junggil KIM (Chiba University, Japan)</i>
14:30-14:50	[14:40-15:00] [OR11-07] Electrochemically Enhanced Visualization of Graphene Grain Boundaries by Mid Anodizing Process <i>Minsuk CHOI (LG Electronics Advanced Research Institute, Korea)</i>	[14:40-15:00] [OR12-02] A New Strategy for Fabricating High-Performance Transparent Conductive Films Based on Oxidized Single-Walled Carbon Nanotubes <i>Sae Jin SUNG (Seoul National University, Korea)</i>	[14:40-15:00] [OR12-02] A New Strategy for Fabricating High-Performance Transparent Conductive Films Based on Oxidized Single-Walled Carbon Nanotubes <i>Sae Jin SUNG (Seoul National University, Korea)</i>	[ORT5-08] Graphene Modified Carbon Nanosheets for Electrochemical Detection of Pb(II) in Water <i>Jin-Tao ZHANG (Dalian University of Technology, Korea)</i>	[14:40-15:00] [IL18-02] A Class of High Performance non-platinum Oxygen Reduction Electrocatalysts based on Cheap Carbon Blanks for Fuel Cells <i>Weilin XU (Chungshun Institute of Applied Chemistry, Chinese Academy of Science, China)</i>	[ORT7-10] Visualizing Carbon Material Properties at Highest Performance and Resolution Using Correlative Raman, AFM, and SNOM <i>Mathias KRESS (Witec GmbH, Germany)</i>
14:50-15:10	[15:00-15:20] [OR11-08] The Diffusion and Coalescence of Vacancies in Graphene and Graphite <i>Malcolm HEGGIE (University of Surrey, UK)</i>	[15:00-15:20] [OR12-03] Multi-Walled Carbon Nanotubes Modified with Metal Nanoparticles for Sensing Applications <i>Nikos TSERKZOS (Immunology University of Technology, Germany)</i>	[15:00-15:20] [OR12-03] Multi-Walled Carbon Nanotubes Modified with Metal Nanoparticles for Sensing Applications <i>Nikos TSERKZOS (Immunology University of Technology, Germany)</i>	[ORT5-09] Graphene-like Atomic Structure of Carbons obtained from Saccharose <i>Henrietta WIZNENCA (Institut Laue-Langevin, France)</i>	[15:00-15:20] [IL18-02] A Class of High Performance non-platinum Oxygen Reduction Electrocatalysts based on Cheap Carbon Blanks for Fuel Cells <i>Weilin XU (Chungshun Institute of Applied Chemistry, Chinese Academy of Science, China)</i>	[ORT7-11] Activated Carbon from an Acid-plant Euphorbia Rigida: A Study on the Competitive Adsorption of Ni(II) and Zn(II) <i>Esin VAROL (Anadolu University, Turkey)</i>
15:10-15:30	Break (20')					
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Chair	Toshiaki ENDO, Hyun Suk SHIN	Lianmiao PENG, Kap Seung YANG	Jean-Paul MOULIN, Euiyoung JEONG	Yu Bai, Seo Jin PARK	Yunhua YU, Young-Seak LEE	Jean-Noel ROUZAUD, Jaesang YU
15:30-15:50	[15:30-16:00] [IL11-02] Chemical Modification and Nanoscale Assembly of Graphene Based Materials for Optoelectronic Nanostructures and Nanodevices <i>Sang Ouk KIM (Korea Advanced Institute of Science and Technology, Korea)</i>	[15:30-16:00] [IL12-05] Large Area Doped Graphene Layers and Hybrid Graphene/Nanotube Films: Control Synthesis, Characterization and Applications <i>Mauricio TERRONES (The Pennsylvania State University, USA)</i>	[15:30-16:00] [OR12-07] Partially Reduced Graphene Oxide and Novel-Inspired Polypropylene as Mussel-Inspired Polypropylene as Mussel-Inspired Polypropylene as Mussel-Inspired Polypropylene <i>Wonho LEE (Korea Institute of Materials Science, Korea)</i>	[ORT5-10] Preparation of Cobalt Dioxide Supported Mesoporous Carbon Spheres for Ethylene Removal <i>Wenqiang LI (East China University of Science and Technology, China)</i>	[15:30-16:00] [IL18-02] A Class of High Performance non-platinum Oxygen Reduction Electrocatalysts based on Cheap Carbon Blanks for Fuel Cells <i>Weilin XU (Chungshun Institute of Applied Chemistry, Chinese Academy of Science, China)</i>	[ORT7-12] Mosaic Block Size Determination in Amorphous Graphite Crystals by Magnetoresistance <i>Anton KIMTREV (Chelyabinsk State University, Russia)</i>
15:50-16:10	[16:00-16:20] [OR11-09] Preparation of Few-layer Graphene Samples by Solvothermal Reaction <i>Sebastien FONTANA (Université de Lorraine, France)</i>	[16:00-16:20] [OR12-04] Synthesis of High quality Semiconducting Single-Wall Carbon Nanotubes by Hydrogen Etching <i>Sebastian FONTANA (Université de Lorraine, France)</i>	[16:00-16:20] [OR12-04] Synthesis of High quality Semiconducting Single-Wall Carbon Nanotubes by Hydrogen Etching <i>Sebastian FONTANA (Université de Lorraine, France)</i>	[ORT5-11] The Synthesis and Investigation of Highly Porous Carbon Materials for Supercapacitor Electrodes <i>Alexander SAMAROV (Institute of Coal Chemistry and Materials Science SB RAS, Russia)</i>	[16:00-16:20] [IL18-02] A Class of High Performance non-platinum Oxygen Reduction Electrocatalysts based on Cheap Carbon Blanks for Fuel Cells <i>Weilin XU (Chungshun Institute of Applied Chemistry, Chinese Academy of Science, China)</i>	[ORT7-13] Structural Study of Carbonization Processes: a Field for Raman Microspectrometry <i>Jean-Noel ROUZAUD (CNRS-EHS, France)</i>
16:10-16:30	[16:20-16:40] [OR11-10] Pore Structure Analysis of High Surface Area Graphene-based Monolith <i>Katsumi KANEKO (Shizuoka University, Japan)</i>	[16:20-16:40] [OR12-05] Conical Shaping of MWCNTs and Graphite Surface by Plasma Irradiation <i>Sun-Taek LIM (Soul National University, Korea)</i>	[16:20-16:40] [OR12-05] Conical Shaping of MWCNTs and Graphite Surface by Plasma Irradiation <i>Sun-Taek LIM (Soul National University, Korea)</i>	[ORT5-12] Impact of Process Conditions in the Preparation of Porous Carbon from Date Palm Seeds by KOH Activation <i>Chandrasar SRINIVASAKANNAN (The Petroleum Institute, United Arab Emirates)</i>	[16:20-16:40] [IL18-02] A Class of High Performance non-platinum Oxygen Reduction Electrocatalysts based on Cheap Carbon Blanks for Fuel Cells <i>Weilin XU (Chungshun Institute of Applied Chemistry, Chinese Academy of Science, China)</i>	[ORT7-14] Gold Nanoparticles/Carbon nanotube-based Non-enzymatic Glucose Biosensor Electrode Modified with CVD for Improved Adsorption <i>Melissa MOMODU (University of Pretoria, South Africa)</i>
16:30-16:50	[16:40-17:00] [OR11-11] Water/ice as an Agent for Facile Exfoliation of Graphite Oxide and Reconstruction of the Residual Graphene Oxide into a 3D Monolith with Flow-through Macropores <i>Isao OGINO (Hokkaido University, Japan)</i>	[16:40-17:00] [OR12-06] A Study on the Nucleation Mechanism of Carbon Nanotubes Produced in Combustion <i>Chang LIU (Institute of Metal Research, Chinese Academy of Sciences, China)</i>	[16:40-17:00] [OR12-06] A Study on the Nucleation Mechanism of Carbon Nanotubes Produced in Combustion <i>Chang LIU (Institute of Metal Research, Chinese Academy of Sciences, China)</i>	[ORT5-13] Nitrogen-doped Porous Graphitic Carbon Ultrathin Fiber Webs and Their Adsorption Performance <i>Yu GAN (Fanghua University, China)</i>	[16:40-17:00] [IL18-02] A Class of High Performance non-platinum Oxygen Reduction Electrocatalysts based on Cheap Carbon Blanks for Fuel Cells <i>Weilin XU (Chungshun Institute of Applied Chemistry, Chinese Academy of Science, China)</i>	[ORT7-15] The Surface Characteristics of Carbonaceous Materials Evaluated with T2 Distribution Analysis of Adsorbed Hydrogen <i>Hisao KIMAGAI (Hokkaido University, Japan)</i>
16:50-17:10	[17:00-17:20] [OR11-12] Characterization of Graphene Oxide Fiber and Graphene Oxide/Multiwall Carbon Nanotube Fiber Prepared by Wet Spinning <i>Yi-Qi WANG (Korea Institute of Materials Science, Korea)</i>	[17:00-17:20] [OR12-07] Carbon Nanomaterials Producing in Combustion <i>Zulkhair MANSUROV (Institute of Combustion Problems, Kazakhstan)</i>	[17:00-17:20] [OR12-07] Carbon Nanomaterials Producing in Combustion <i>Zulkhair MANSUROV (Institute of Combustion Problems, Kazakhstan)</i>	[ORT5-14] 1H NMR Spectra Analysis for the Identification of Volatile Organic Compounds onto Porous Carbons (Single and Multi Compounds) <i>Guyec LE BOZEC (CNRS, France)</i>	[17:00-17:20] [IL18-02] A Class of High Performance non-platinum Oxygen Reduction Electrocatalysts based on Cheap Carbon Blanks for Fuel Cells <i>Weilin XU (Chungshun Institute of Applied Chemistry, Chinese Academy of Science, China)</i>	[ORT7-16] Micromechanically-based Effective Electrical Conductivity Estimates and Experimental study for Polymer Nanocomposites: Percolation Threshold <i>Jaesang YU (Korea Institute of Science and Technology, Korea)</i>
17:10-17:30	[17:20-17:40] [OR11-13] Graphene Nanoribbons and Nanofibers from Functionalized Carbon Precursors <i>Maria PAIVA (Universidade do Minho, Portugal)</i>	[17:20-17:40] [OR12-08] Synthesis of Carbon Nanofiber Bulks by Chemical Vapor Deposition <i>Xiang GE (East China University of Science and Technology, China)</i>	[17:20-17:40] [OR12-08] Synthesis of Carbon Nanofiber Bulks by Chemical Vapor Deposition <i>Xiang GE (East China University of Science and Technology, China)</i>	[ORT5-15] Three Kinds of Surface Molecule Impregnated Porous Carbon Materials for Capturing Benzothiofenenes <i>Xuguang LIU (Taiyuan University of Technology, China)</i>	[17:20-17:40] [IL18-02] A Class of High Performance non-platinum Oxygen Reduction Electrocatalysts based on Cheap Carbon Blanks for Fuel Cells <i>Weilin XU (Chungshun Institute of Applied Chemistry, Chinese Academy of Science, China)</i>	[ORT7-17] In-situ Measurement of Property Change during Heating Treating at Pre-Grafting <i>Norio IWASHITA (National Institute for Advanced Industrial Science and Technology, AIST, Japan)</i>

July 1 (Tue)						
Date/ Time	Registration					
8:00-8:30	Registration					
Room	HALLA A	HALLA B	SAMDA	303	401	402
Session	T1: Graphene	T3: Precursors, Carbon Fibers, and Composites	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving	T5: Porous Carbons, Carbons for Health and Environmental Protection	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving	T4: Industrial Graphenes, Carbon Industry News, and Carbon Blocks
Chair	Rodney S. RUOFF, Kisuk KANG	Ying YANG, Kap Seung YANG	Francois BEGUIN, Byoung-Sun LEE	Felyu KANG, Bon-Chaol KU	Vilas G. POL, Geon-Woong LEE	Se-Hwan CHI, Myung-Soo KIM
8:30-8:50	(8:30-9:00) [ILT-03] Graphene-derivatives for High Performance Li and Na Rechargeable Batteries Kisuk KANG (Seoul National University, Korea)	(8:30-9:00) [ILT-03] Carbon Materials with High Thermal Conductivity Felyu KANG (Tsinghua University, China)	(8:30-9:00) [ILT-03] Optimal Porous Carbons for Supercapacitors in Aqueous and Ionic Liquid Electrolytes Francois BEGUIN (Poznan University of Technology, Poland)	(8:30-9:10) [KLT5-02] Graphene Family Nanomaterials from Chemical Modifications to Biomedical Applications and Health Impacts Alberto BIANCO (CNRS, France)	(8:30-9:10) [KLT5-02] Graphene Family Nanomaterials from Chemical Modifications to Biomedical Applications and Health Impacts Alberto BIANCO (CNRS, France)	(8:30-9:00) [ILT4-01] Research and Development of Carbon Separator for PEFC Toshihiro SHIDA (Tohoku Carbon Co., Ltd., Japan)
8:50-9:10	(9:00-9:20) [ORT1-14] Nitrogen-doped Defective Graphene Foam as a Fuel Cell Electrocatalyst Stephen LYTH (Kyushu University, Japan)	(9:00-9:20) [ORT1-14] Nitrogen-doped Defective Graphene Foam as a Fuel Cell Electrocatalyst Stephen LYTH (Kyushu University, Japan)	(9:00-9:20) [ORT1-14] Nitrogen-doped Defective Graphene Foam as a Fuel Cell Electrocatalyst Stephen LYTH (Kyushu University, Japan)	(9:00-9:20) [ORT1-14] Nitrogen-doped Defective Graphene Foam as a Fuel Cell Electrocatalyst Stephen LYTH (Kyushu University, Japan)	(9:00-9:20) [ORT1-14] Nitrogen-doped Defective Graphene Foam as a Fuel Cell Electrocatalyst Stephen LYTH (Kyushu University, Japan)	(9:00-9:30) [ILT4-02] Graphite Small Specimen Testing for Nuclear Application Se-Hwan CHI (Korea Atomic Energy Research Institute, Korea)
9:10-9:30	(9:20-9:40) [ORT1-15] Coke-Based Graphenes as Effective Electrodes in Redox Flow Batteries Patricia ALVAREZ (Instituto Nacional del Carbon, CSIC, Spain)	(9:20-9:40) [ORT1-15] Coke-Based Graphenes as Effective Electrodes in Redox Flow Batteries Patricia ALVAREZ (Instituto Nacional del Carbon, CSIC, Spain)	(9:20-9:40) [ORT1-15] Coke-Based Graphenes as Effective Electrodes in Redox Flow Batteries Patricia ALVAREZ (Instituto Nacional del Carbon, CSIC, Spain)	(9:20-9:40) [ORT1-15] Coke-Based Graphenes as Effective Electrodes in Redox Flow Batteries Patricia ALVAREZ (Instituto Nacional del Carbon, CSIC, Spain)	(9:20-9:40) [ORT1-15] Coke-Based Graphenes as Effective Electrodes in Redox Flow Batteries Patricia ALVAREZ (Instituto Nacional del Carbon, CSIC, Spain)	(9:00-9:30) [ILT4-02] Graphite Small Specimen Testing for Nuclear Application Se-Hwan CHI (Korea Atomic Energy Research Institute, Korea)
9:30-9:50	(9:40-10:00) [ORT1-16] Nanoporous Layered Graphene Hydrogels with Controlled Pore Sizes: Design, Synthesis, Characterization and Applications Mark BIGGS (The University of Adelaide, Australia)	(9:40-10:00) [ORT1-16] Nanoporous Layered Graphene Hydrogels with Controlled Pore Sizes: Design, Synthesis, Characterization and Applications Mark BIGGS (The University of Adelaide, Australia)	(9:40-10:00) [ORT1-16] Nanoporous Layered Graphene Hydrogels with Controlled Pore Sizes: Design, Synthesis, Characterization and Applications Mark BIGGS (The University of Adelaide, Australia)	(9:40-10:00) [ORT1-16] Nanoporous Layered Graphene Hydrogels with Controlled Pore Sizes: Design, Synthesis, Characterization and Applications Mark BIGGS (The University of Adelaide, Australia)	(9:40-10:00) [ORT1-16] Nanoporous Layered Graphene Hydrogels with Controlled Pore Sizes: Design, Synthesis, Characterization and Applications Mark BIGGS (The University of Adelaide, Australia)	(9:40-01) Transparent, Superhard Amorphous Carbon and its Strength at High Pressure Mingguang YAO (Jilin University, China)
9:50-10:10	(10:00-10:20) [ORT1-17] Simple Preparation of Reduced Graphene Oxide Encapsulated Film for Organic Photovoltaic Device Taehoon KIM (Seoul National University, Korea)	(10:00-10:20) [ORT1-17] Simple Preparation of Reduced Graphene Oxide Encapsulated Film for Organic Photovoltaic Device Taehoon KIM (Seoul National University, Korea)	(10:00-10:20) [ORT1-17] Simple Preparation of Reduced Graphene Oxide Encapsulated Film for Organic Photovoltaic Device Taehoon KIM (Seoul National University, Korea)	(10:00-10:20) [ORT1-17] Simple Preparation of Reduced Graphene Oxide Encapsulated Film for Organic Photovoltaic Device Taehoon KIM (Seoul National University, Korea)	(10:00-10:20) [ORT1-17] Simple Preparation of Reduced Graphene Oxide Encapsulated Film for Organic Photovoltaic Device Taehoon KIM (Seoul National University, Korea)	(10:00-10:20) [ORT1-17] Simple Preparation of Reduced Graphene Oxide Encapsulated Film for Organic Photovoltaic Device Taehoon KIM (Seoul National University, Korea)
10:10-10:30	(10:20-10:40) [ORT1-18] Enhanced Molecular Sensing and Efficient Photocatalytic Conversion of Large-Area Doped Graphene Sheets Ruitao LU (Tsinghua University, China)	(10:20-10:40) [ORT1-18] Enhanced Molecular Sensing and Efficient Photocatalytic Conversion of Large-Area Doped Graphene Sheets Ruitao LU (Tsinghua University, China)	(10:20-10:40) [ORT1-18] Enhanced Molecular Sensing and Efficient Photocatalytic Conversion of Large-Area Doped Graphene Sheets Ruitao LU (Tsinghua University, China)	(10:20-10:40) [ORT1-18] Enhanced Molecular Sensing and Efficient Photocatalytic Conversion of Large-Area Doped Graphene Sheets Ruitao LU (Tsinghua University, China)	(10:20-10:40) [ORT1-18] Enhanced Molecular Sensing and Efficient Photocatalytic Conversion of Large-Area Doped Graphene Sheets Ruitao LU (Tsinghua University, China)	(10:20-10:40) [ORT1-18] Enhanced Molecular Sensing and Efficient Photocatalytic Conversion of Large-Area Doped Graphene Sheets Ruitao LU (Tsinghua University, China)
10:30-10:50	Break (20 min)					
10:50-11:40	[Room: TAMMA A]	(Chair: Cheol Jin LEE)	[PLO2] Carbon Nanotube Electronics - Extending Moore's Law to the End of the Roadmap Lianmao FENG (Peking University, China)			
11:40-13:10	Lunch (11:40-13:10)					
13:10-13:30	(13:10-13:30) [KLT1-02] Soft Matter Behavior and Biological Interactions of Graphene Materials Robert HURT (Brown University, USA)	(13:10-13:30) [KLT1-02] Soft Matter Behavior and Biological Interactions of Graphene Materials Robert HURT (Brown University, USA)	(13:10-13:30) [KLT1-02] Soft Matter Behavior and Biological Interactions of Graphene Materials Robert HURT (Brown University, USA)	(13:10-13:30) [KLT1-02] Soft Matter Behavior and Biological Interactions of Graphene Materials Robert HURT (Brown University, USA)	(13:10-13:30) [KLT1-02] Soft Matter Behavior and Biological Interactions of Graphene Materials Robert HURT (Brown University, USA)	(13:10-13:30) [KLT1-02] Soft Matter Behavior and Biological Interactions of Graphene Materials Robert HURT (Brown University, USA)
13:30-13:50	(13:30-14:00) [ORT1-17] Simulation on Methane Pyrolysis during the desulfurization of Carbonaceous Composites by Chemical Vapor Infiltration Chunxia HU (Northwestern Polytechnical University, China)	(13:30-14:00) [ORT1-17] Simulation on Methane Pyrolysis during the desulfurization of Carbonaceous Composites by Chemical Vapor Infiltration Chunxia HU (Northwestern Polytechnical University, China)	(13:30-14:00) [ORT1-17] Simulation on Methane Pyrolysis during the desulfurization of Carbonaceous Composites by Chemical Vapor Infiltration Chunxia HU (Northwestern Polytechnical University, China)	(13:30-14:00) [ORT1-17] Simulation on Methane Pyrolysis during the desulfurization of Carbonaceous Composites by Chemical Vapor Infiltration Chunxia HU (Northwestern Polytechnical University, China)	(13:30-14:00) [ORT1-17] Simulation on Methane Pyrolysis during the desulfurization of Carbonaceous Composites by Chemical Vapor Infiltration Chunxia HU (Northwestern Polytechnical University, China)	(13:30-14:00) [ORT1-17] Simulation on Methane Pyrolysis during the desulfurization of Carbonaceous Composites by Chemical Vapor Infiltration Chunxia HU (Northwestern Polytechnical University, China)
13:50-14:10	(13:50-14:20) [ILT1-04] Covalent and Non-covalent Functionalization of Graphene by Diphenyl Nanolithography Aravind VIJAYARAGHAVAN (The University of Manchester, UK)	(13:50-14:20) [ILT1-04] Covalent and Non-covalent Functionalization of Graphene by Diphenyl Nanolithography Aravind VIJAYARAGHAVAN (The University of Manchester, UK)	(13:50-14:20) [ILT1-04] Covalent and Non-covalent Functionalization of Graphene by Diphenyl Nanolithography Aravind VIJAYARAGHAVAN (The University of Manchester, UK)	(13:50-14:20) [ILT1-04] Covalent and Non-covalent Functionalization of Graphene by Diphenyl Nanolithography Aravind VIJAYARAGHAVAN (The University of Manchester, UK)	(13:50-14:20) [ILT1-04] Covalent and Non-covalent Functionalization of Graphene by Diphenyl Nanolithography Aravind VIJAYARAGHAVAN (The University of Manchester, UK)	(13:50-14:20) [ILT1-04] Covalent and Non-covalent Functionalization of Graphene by Diphenyl Nanolithography Aravind VIJAYARAGHAVAN (The University of Manchester, UK)
14:10-14:30	(14:20-14:40) [ORT1-19] Graphene Oxide-Integrated PLGA/Collagen Nanofiber Matrices Beneficial to Growth of Vascular Smooth Muscle Cells Yong Chol SHIN (Pusan National University, Korea)	(14:20-14:40) [ORT1-19] Graphene Oxide-Integrated PLGA/Collagen Nanofiber Matrices Beneficial to Growth of Vascular Smooth Muscle Cells Yong Chol SHIN (Pusan National University, Korea)	(14:20-14:40) [ORT1-19] Graphene Oxide-Integrated PLGA/Collagen Nanofiber Matrices Beneficial to Growth of Vascular Smooth Muscle Cells Yong Chol SHIN (Pusan National University, Korea)	(14:20-14:40) [ORT1-19] Graphene Oxide-Integrated PLGA/Collagen Nanofiber Matrices Beneficial to Growth of Vascular Smooth Muscle Cells Yong Chol SHIN (Pusan National University, Korea)	(14:20-14:40) [ORT1-19] Graphene Oxide-Integrated PLGA/Collagen Nanofiber Matrices Beneficial to Growth of Vascular Smooth Muscle Cells Yong Chol SHIN (Pusan National University, Korea)	(14:20-14:40) [ORT1-19] Graphene Oxide-Integrated PLGA/Collagen Nanofiber Matrices Beneficial to Growth of Vascular Smooth Muscle Cells Yong Chol SHIN (Pusan National University, Korea)
14:30-14:50	(14:40-15:00) [ORT1-20] Two-dimensional Soft Material: New Faces of Graphene Oxide Jieunyoung Kim (University of California, USA)	(14:40-15:00) [ORT1-20] Two-dimensional Soft Material: New Faces of Graphene Oxide Jieunyoung Kim (University of California, USA)	(14:40-15:00) [ORT1-20] Two-dimensional Soft Material: New Faces of Graphene Oxide Jieunyoung Kim (University of California, USA)	(14:40-15:00) [ORT1-20] Two-dimensional Soft Material: New Faces of Graphene Oxide Jieunyoung Kim (University of California, USA)	(14:40-15:00) [ORT1-20] Two-dimensional Soft Material: New Faces of Graphene Oxide Jieunyoung Kim (University of California, USA)	(14:40-15:00) [ORT1-20] Two-dimensional Soft Material: New Faces of Graphene Oxide Jieunyoung Kim (University of California, USA)
14:50-15:10	Break (20 min)					
15:10-15:30	(15:10-15:40) [ORT1-05] Electronic Structure of Graphene Nanostructures: Interplay of Geometry and Chemistry of Graphene Edges Toshiaki ENOKI (Tokyo Institute of Technology, Japan Science and Technology Agency (JST), Japan)	(15:10-15:40) [ORT1-05] Electronic Structure of Graphene Nanostructures: Interplay of Geometry and Chemistry of Graphene Edges Toshiaki ENOKI (Tokyo Institute of Technology, Japan Science and Technology Agency (JST), Japan)	(15:10-15:40) [ORT1-05] Electronic Structure of Graphene Nanostructures: Interplay of Geometry and Chemistry of Graphene Edges Toshiaki ENOKI (Tokyo Institute of Technology, Japan Science and Technology Agency (JST), Japan)	(15:10-15:40) [ORT1-05] Electronic Structure of Graphene Nanostructures: Interplay of Geometry and Chemistry of Graphene Edges Toshiaki ENOKI (Tokyo Institute of Technology, Japan Science and Technology Agency (JST), Japan)	(15:10-15:40) [ORT1-05] Electronic Structure of Graphene Nanostructures: Interplay of Geometry and Chemistry of Graphene Edges Toshiaki ENOKI (Tokyo Institute of Technology, Japan Science and Technology Agency (JST), Japan)	(15:10-15:40) [ORT1-05] Electronic Structure of Graphene Nanostructures: Interplay of Geometry and Chemistry of Graphene Edges Toshiaki ENOKI (Tokyo Institute of Technology, Japan Science and Technology Agency (JST), Japan)
15:30-15:50	(15:40-16:00) [ORT1-21] Bilayer Graphene under Biaxial Strain Investigated by High Pressure Raman Spectroscopy Allonso SAN-MIGUEL (University of Lyon, France)	(15:40-16:00) [ORT1-21] Bilayer Graphene under Biaxial Strain Investigated by High Pressure Raman Spectroscopy Allonso SAN-MIGUEL (University of Lyon, France)	(15:40-16:00) [ORT1-21] Bilayer Graphene under Biaxial Strain Investigated by High Pressure Raman Spectroscopy Allonso SAN-MIGUEL (University of Lyon, France)	(15:40-16:00) [ORT1-21] Bilayer Graphene under Biaxial Strain Investigated by High Pressure Raman Spectroscopy Allonso SAN-MIGUEL (University of Lyon, France)	(15:40-16:00) [ORT1-21] Bilayer Graphene under Biaxial Strain Investigated by High Pressure Raman Spectroscopy Allonso SAN-MIGUEL (University of Lyon, France)	(15:40-16:00) [ORT1-21] Bilayer Graphene under Biaxial Strain Investigated by High Pressure Raman Spectroscopy Allonso SAN-MIGUEL (University of Lyon, France)
15:50-16:10	(16:00-16:20) [ORT1-22] Enhanced Field Emission from Graphene Foam treated by H2 Plasma Etching Shuyi DING (Southeast University, China)	(16:00-16:20) [ORT1-22] Enhanced Field Emission from Graphene Foam treated by H2 Plasma Etching Shuyi DING (Southeast University, China)	(16:00-16:20) [ORT1-22] Enhanced Field Emission from Graphene Foam treated by H2 Plasma Etching Shuyi DING (Southeast University, China)	(16:00-16:20) [ORT1-22] Enhanced Field Emission from Graphene Foam treated by H2 Plasma Etching Shuyi DING (Southeast University, China)	(16:00-16:20) [ORT1-22] Enhanced Field Emission from Graphene Foam treated by H2 Plasma Etching Shuyi DING (Southeast University, China)	(16:00-16:20) [ORT1-22] Enhanced Field Emission from Graphene Foam treated by H2 Plasma Etching Shuyi DING (Southeast University, China)
16:10-16:30	(16:20-16:40) [ORT1-23] Effects of Reduction Process on the Microstructures and Thermal Conductivity of Graphene Oxide Films Xiangying ZENG (Shanghai Institute of Technology, China)	(16:20-16:40) [ORT1-23] Effects of Reduction Process on the Microstructures and Thermal Conductivity of Graphene Oxide Films Xiangying ZENG (Shanghai Institute of Technology, China)	(16:20-16:40) [ORT1-23] Effects of Reduction Process on the Microstructures and Thermal Conductivity of Graphene Oxide Films Xiangying ZENG (Shanghai Institute of Technology, China)	(16:20-16:40) [ORT1-23] Effects of Reduction Process on the Microstructures and Thermal Conductivity of Graphene Oxide Films Xiangying ZENG (Shanghai Institute of Technology, China)	(16:20-16:40) [ORT1-23] Effects of Reduction Process on the Microstructures and Thermal Conductivity of Graphene Oxide Films Xiangying ZENG (Shanghai Institute of Technology, China)	(16:20-16:40) [ORT1-23] Effects of Reduction Process on the Microstructures and Thermal Conductivity of Graphene Oxide Films Xiangying ZENG (Shanghai Institute of Technology, China)
16:30-17:30	Poster Session 1					
19:00-21:00	Panel Discussion What Could be Major Technical Barriers for Commercialization of Energy Application or Thermal Management using Graphene?					

Date/ Time	July 2 (Wed)					
8:00-8:30	Registration					
Room	HALLA A	HALLA B	SAMDA	303	401	402
Session	T1: Graphene	T2: CNTs and Related Carbon Nanomaterials	T3: Precursors, Carbon Fibers, and Composites	T5: Porous Carbons, Carbons for Health and Environmental Protection	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving	T7: Analysis, Characterization, Computation and Modelling of Carbons
Chair	Joycelyn S. HARRISON, Chul-Hong KIM	Jin ZHANG, Woong KIM	Vesna MISKOVIC-STANKOVIC, Kyong Yop RHEE	Joaquin SILVESTRE-ALBERO, Taehoon KIM	Kuel-Hsien CHEN, Sang Won LEE	Joachim METZ, Seho CHO
8:30-8:50	(8:30-9:00) [ILT1-06] Mass Production of Edge-Selectively Functionalized Graphene Nanoplatelets as Efficient Electrocatalysts <i>Jong-Beom BAEK (Ulsan National Institute of Science and Technology (UNIST), Korea)</i>	(8:30-9:10) [KLT2-02] Measuring Domain Sizes in Graphene-Based Carbons <i>Marc MONTHIOUX (CNRS, France)</i>	(8:30-9:00) [ILT3-05] Dispersion and Properties of Carbon Nanotubes Thermoplastic Polymer Composites <i>Gi Dae CHOI (LG Chem, Korea)</i>	[ORT5-29] Hydroxyapatite Nucleation and Growth Mechanism on Carbon Nanotube/carbon Fiber Hybrid Materials <i>Leilei ZHANG (Northwestern Polytechnical University, China)</i>	(8:30-9:10) [KLT6-01] The Roles of Graphene in Lithium-ion Batteries <i>Hui-Ming CHENG (Institute of Metal Research, the Chinese Academy of Sciences, China)</i>	[ORT7-18] Catalytic Graphitization of Coal Tar Pitch <i>Anna N. POPOVA (Kemerovo Scientific Centre, Russia)</i>
8:50-9:10	(9:00-9:20) [ORT1-28] Characterization of Functionalized Graphene-filled Nanocomposites in LEO Space Environment <i>Seung-bo JIN (KARI, Korea)</i>		(9:00-9:30) [ILT3-06] Electrochemical Biocomposite Graphene/Hydroxyapatite Coatings on Titanium Aimed for Medical Applications <i>Vesna MISKOVIC-STANKOVIC (University of Belgrade, Serbia)</i>	[ORT5-30] Dynamic Adsorption of Pharmaceutical Residues at Trace Concentrations onto Activated Carbon Cloths <i>Sylvain GIRAUDET (Ecole Nationale Supérieure de Chimie de Rennes, France)</i>		[ORT7-19] Trace Element Analysis of High Purity Graphite Materials <i>Joachim METZ (Schunk Kohlenstofftechnik GmbH, Germany)</i>
9:10-9:30	(9:20-9:40) [ORT1-29] Nitroxide-Functionalized Graphene Oxide from Graphite Oxide <i>Jose BONILLA-CRUZ (Research Center for Advanced Materials (CIMAV-MOTERREY UNIT), Mexico)</i>	[ORT2-14] Influence of the Reactor Temperature Profile on the Catalyst Particle Size Distribution during Carbon Nanotube Production via the "Floating Catalyst" Method <i>Franziska TONI (University of Erlangen-Nuernberg, Germany)</i>		[ORT5-31] Honeycomb Carbon Monoliths from Renewable Materials for Removal of Inflammatory Cytokines from Human Plasma <i>Jakpar JANDOSOV (Institute of Combustion Problems, Kazakhstan)</i>	[ORT6-32] Advanced Hierarchical Nanocarbon/sulfur Composite Cathodes for Lithium/sulfur Batteries with High Capacity Long Cycle Life <i>Qiang ZHANG (Tsinghua University, China)</i>	[ORT7-20] Research of Graphite Crystal Structure by XRD-Analysis <i>Anna N. POPOVA (Kemerovo Scientific Centre, Russia)</i>
9:30-9:50	(9:40-10:00) [ORT1-30] Rheology of Polycarbonate/graphene Gels and Graphene Hydrogels <i>Heon Sang LEE (Dong-A University, Korea)</i>	[ORT2-15] Synthesis of carbon nanomaterials by thermal decomposition of hydrocarbons <i>Bakhytzhon LESBAYEV (Institute of Combustion Problems, Kazakhstan)</i>	[ORT3-25] Preparation and Characterization of Carbon Fiber by Melt Spinning of PAN based Copolymer Precursor <i>Min Hye JUNG (Korea Institute of Carbon Convergence Technology, Korea)</i>	[ORT5-32] Carbon Nanostructures as a Reinforcement for Corneal Stroma <i>Joaquin SILVESTRE-ALBERO (Universidad de Alicante, Spain)</i>	[ORT6-33] High Energy Li-S Batteries from H2S: A Promising Strategy Towards Pollutant Control and Energy Storage System <i>Chen ZHANG (Tianjin University, China)</i>	[ORT7-21] Influence of Structural Properties on Graphite Oxidation Behavior <i>Mouhamad ALI AHMAD (CNRS, France)</i>
9:50-10:10	(10:00-10:20) [ORT1-31] Preparation and Characterization of Graphene Nanosheets/Alumina Composites Templated by Natural Tubular Halloysite <i>Yasemin CELIK (Anadolu University, Turkey)</i>	[ORT2-16] Volumetric Adsorption Study of Purification and Debundling Processes on Single-walled Carbon Nanotube Bundles <i>Sébastien FONTANA (Universite de Lorraine, France)</i>	[ORT3-26] Exergetic Analysis of the Stabilisation and Carbonisation Process in Carbon Fibre Production <i>Andreas DE PALMENAER (Institut fuer Textiltechnik RWTH Aachen University, Germany)</i>	[ORT5-33] Osteocompatibility Evaluation of Carbon Nanomaterial-Containing Nanofibrous Scaffolds <i>Qing CAI (Beijing University of Chemical Technology, China)</i>	[ORT6-34] In-plane Ordering of Li Species in the Interlayer of the Turbostratic Carbon Anode Material for a High- power and Long- life Li Ion Battery <i>Hiroyuki FUJIMOTO (Osaka Gas Co., Ltd., Japan)</i>	[ORT7-22] Relationships between Immersion Density and XRD Parameters during the Graphitization of Cokes <i>Kunio TAGUCHI (Toyo Tanso Co., Ltd., Japan)</i>
10:10-10:30	(10:20-10:40) [ORT1-32] Mesoporous Carbon Materials with "Core-shell" Structure Templated by Natural Tubular Halloysite <i>Xiu Yun CHUAN (Peking University, China)</i>	[ORT2-17] Enhanced X-ray Absorption Property of Au-doped Double Wall Carbon Nanotubes <i>Fitri KHOERUNNISA (UPI, Indonesia)</i>	[ORT3-27] Microdomain-graphitized Polyacrylonitrile-based Carbon Nanofibers for Removal of NO at Room Temperature <i>Zeyu GUO (Tsinghua University, China)</i>	[ORT5-34] Nanoporous Colloidal Carbon Spheres for Energy Applications <i>Jian LIU (Curtin University, Australia)</i>	[ORT6-35] A Study of Electrical Double-Layer Characteristic of activated Carbon Electrode In Spiro-(1, 1')-bipyrrroliidinium Tetrafluoroborate Electrolyte <i>Xuewen YU (Tianjin Polytechnic University, China)</i>	[ORT7-23] X-ray Scattering and Computational Study of the Structural Evolution of Polyacrylonitrile Precursor Fibers during the Spinning Process <i>Kunsil LEE (Seoul National University, Korea)</i>
10:30-10:50	Break (20 min)					
10:50-11:40	[Room: TAMNA A]	(Chair: Byung Jin CHO) [PL03] Engineered Nanocarbon Materials <i>Pulickel AJAYAN (Rice University, USA)</i>				
11:40-12:50	Lunch (11:40-12:50)					
13:00-18:00	Excursion "SEONGSAN Sunrise Peak" (13:00-18:00)					

July 3 (Thu)						
Date/Time	Registration					
8:00-8:30	HALL A	HALL B	SANDA	303	401	402
Room	HALL A	HALL B	SANDA	303	401	402
Session	T1: Graphene	T2: CNTs and Related Carbon Nanomaterials	T3: Precursors, Carbon Fibers, and Composites	T5: Porous Carbons, Carbons for Health and Environmental Protection	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving	T7: Precursors, Carbon Fibers, and Composites (PK Symposium)
Chair	Jeemyung KIM, Wan Sik HWANG	Jonathan N. COLEMAN, Cheol PARK	Hiroaki HATORI, Jin Woo Yi	Indrak KILACTS, Suk KIM	Kun'ichi MIYAZAWA, Tae-Sung BAE	Gi Dae CHO
8:30-9:00	ILT1-077 Graphene Flakes and Graphene Quantum Dots and their Possible Applications Hyoyoung LEE (Sungkyunkwan University, Korea)	ILT2-093 Graphene Silver Bullets or Soap Bubble: Charges, Risks and Potential Applications of this New Material Class Ivan KOLARIC (Fraunhofer IPA, Germany)	8:30-9:10 ILT3-023 Application and Prospect of Carbon Nanomaterials Filled Nanocomposites Soon Hyung HONG (Korea Advanced Institute of Science and Technology, Korea)	8:30-9:00 [ORT1-35] Activated Carbons from Biomass and Coal Treatment Products as Catalysts for Methanol Decomposition Mehmet Farhat YARDIMCI (Istanbul Technical University, Turkey)	8:30-9:00 [LT1-06] Flexible/stretchable Electrochemical Capacitors based on Carbon Nanotubes Woong KIM (Korea University, Korea)	8:30-9:00 [RLNC-01] Research on the Carbonization Composites Reinforced by Carbon Nanotube Huijun LI (Northwestern Polytechnical University, China)
9:00-9:20	9:00-9:20 [ORT1-33] Characteristic of Graphene Field Effect Transistor with Ferroelectric Gate Dielectric Somyoung SHIN (Sejong University, Korea)	8:00-9:20 [ORT2-18] Sulfur-activated Carbon Nanotube Composite for Lithium-sulfur Secondary Batteries Joon-Hwi (Korea Institute of Ceramic Engineering & Technology, Korea)		9:00-9:30 [ORT1-36] Carbon Foam Production from Biogel Murat KULIC (Ataturk University, Turkey)	9:00-9:30 [LT1-04] Synthesis, Structure, Properties and Application of Fullerenes Nanohydrates Kun'ichi MIYAZAWA (NIMS, Japan)	9:00-9:20 [ORNC-01] Strengthening Mechanism for Carbon Nanotube Composites Seung J. CHA (Korea Electrotechnology Research Institute, Korea)
9:20-9:40	9:20-9:40 [ORT1-34] The Modulation of Graphene Work Function by the Control of Oxygen-oxide Property Tae Kwang KIM (Sejong University, Korea)	8:20-9:40 [ORT2-19] Effect of MWCNTs on Mechanical Response of Filament Wound CFRP Cylinders Jinying CHU (Beijing University of Chemical Technology, China)	9:20-9:40 [ORT2-20] Manufacturing Carbon Nanotube Reinforced Composite using Super Aligned CNT Sheet Sokyoung MOON (Japan Aerospace Exploration Agency, Japan)	9:20-9:40 [ORT1-37] Carbon-Coated Alumina Films with Parallel Nanochannels as Enzymatic Bio-electrodes Alberto CASTRO-MUNIZ (Tohoku University, Japan)	9:00-9:30 [LT1-05] Synthesis, Structure, Properties and Application of Fullerenes Nanohydrates Kun'ichi MIYAZAWA (NIMS, Japan)	9:20-9:40 [ORNC-02] Preparation of Functional Composite Materials Based on Chemically Derived Graphene Gi Dae CHO (Korea Advanced Institute of Science and Technology, Korea)
9:40-10:00	9:40-10:00 [ORT1-35] Graphene/MoS2 Junction Property Hyeyoung DU (Sejong University, Korea)	8:40-10:00 [ORT2-21] Self-aligned Fabrication of Graphene Transistors with Photocurable Ion-gel Gate Dielectric on Plastic Substrate Seoung-Ho LEE (Yonsei University, Korea)	9:40-10:00 [ORT2-22] Internal Friction Behavior of a Unidirectional Carbonization Composite with Different Cyclic Loading Studied in High Temperature Jing CHENG (Northwestern Polytechnical University, China)	9:40-10:00 [ORT1-38] Biofuels, Chemicals and Catalysts from Biomass via Hydrothermal Carbonization Filizola PILEDIS (Queen Mary University of London, UK)	9:40-10:00 [ORT1-36] The Carbon/halide Interface in Supercapacitors Eunsoo FRACKOWIAK (Pohang University of Technology, Poland)	9:40-10:00 [ORNC-03] Manipulation of Thermal and Electrical Conductivity of Polymer Composites by Addition of Inorganic Fillers Namki KIM (Korea Automotive Technology Institute, Korea)
10:00-10:20	10:00-10:20 [ORT1-36] Self-aligned Fabrication of Graphene Transistors with Photocurable Ion-gel Gate Dielectric on Plastic Substrate Seoung-Ho LEE (Yonsei University, Korea)	10:00-10:20 [ORT2-21] Functionalization of Carbon Nanotubes (CNTs) by Atomic Layer Deposition (ALD) in a Fluidized Bed Reactor (FBR) Susanne SCHMITT (Friedrich-Alexander-Universitaet Erlangen-Nuremberg, Germany)	10:00-10:20 [ORT2-23] Controllability of Emission Wavelength of Emissive Molecule Separated from Coal Tar Pitch Takeshi FUKUDA (Saitama University, Japan)	10:00-10:20 [ORT1-39] Biomass-derived Fluorescent Carbon Quantum Dots as Solar Cell Sensitizers Joan MARINOVIC (Queen Mary University of London, UK)	10:00-10:20 [ORT1-37] Na Insertion into the MgO-templated Carbon for Pseudocapacitance Yuji KAZUO (National Institute of Advanced Industrial Science and Technology, Japan)	10:00-10:30 [RLNC-02] Hybrid Composites Materials for Automotive Applications Today Solutions and Future Challenges Jean-Paul MOULIN (Plastic Omnium, France)
10:20-10:40	10:20-10:40 [ORT1-37] Fabrication of Flexible and Transparent Graphene-FET with BN Gate Dielectrics Taesung JUNG (Sungkyunkwan University, Korea)	10:20-10:40 [ORT2-22] Li-ion Battery Electrode Property of Functionalized Molecules Encapsulated in Single-walled Carbon Nanotubes Shin KIMURA (Nagoya Institute of Technology, Japan)	10:20-10:40 [ORT2-24] Correlation between Mechanical Properties of Carbon Fiber and Its Application for Surface Area Development Hiroaki HATORI (Boon University, USA)	10:20-10:40 [ORT1-40] Explosive Mode of Graphite Oxide Thermal Exfoliation and its Application for Surface Area Development Hiroaki HATORI (Boon University, USA)	10:20-10:40 [ORT1-38] A Tubular Mesoporous Carbon Cathode and its SnO2 Encapsulated Hybrid Anode for High Energy Density Non-aqueous Lithium Ion Capacitor Wen-Hui DU (Dalian University of Technology, China)	
10:30-10:50	Break (20 min)					
10:50-11:40	Room: TAMINA A	(Chair: Soon Hyung HONG) Hui Jae PARK (Office of Strategic R&D Planning, Ministry of Trade, Industry and Energy, Korea)	(PL04) Korean R&D Strategies for Carbon Industries			
11:40-13:10	Lunch (11:40-13:10)					
Room	HALL A	HALL B	SANDA	303	401	402
Session	T1: Graphene	T2: CNTs and Related Carbon Nanomaterials	T3: Precursors, Carbon Fibers, and Composites	T5: Porous Carbons, Carbons for Health and Environmental Protection	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving	RIMS Academy Laboratory - GRI Joint Workshop on Organic & Carbon Nanomaterials for Smart Applications
Chair	Hui-Ming CHENG, Chang Gu LEE	Nico KOLARIC, Myung-Jong KIM	Bin DING, Seung-Ho YOON	Juan M. D. TASCION, Young-Pyo JEON	Jason Jaehun GU, Jong-Sung YU	Wanhoo LEE
13:10-13:30	13:10-13:40 [ILT1-08] Graphene for Electrochemical Energy Storage Bar JANG (Angstrom Materials, Inc., USA)	13:10-13:40 [ILT2-10] Recent Progress on Carbon Nanotube/Polymer Composite Young Se LEE (Chul Industries Inc., Korea)	13:10-13:40 [ILT3-07] Pitch based Carbon Fiber for Car Body Application Seung-Ho YOON (Kyushu University, Japan)	13:10-13:40 [ILT4-1] Introduction of Ordered Mesopores into Carbon Gels and Controlling the Structure of the Established Hierarchical Pore System of Mesoporous Carbons Shin MUKAI (Hokkaido University, Japan)	13:10-13:40 [LT1-08] Emerging Carbon Architectures for Energy Storage Devices Vilas G. POL (Purdue University, USA)	13:10-13:40 [ORNC-01] Use of Interfacial Assembly for Constructing Nanomaterials into 2D and 3D Nanostructures Franklin KIM (Institute for Integrated Cell-Materials Science (iPS-CM), Kyoto University, Japan)
13:30-13:50	13:40-14:00 [ORT1-38] Effect of Surface Characteristics and Surface Area of Reduced Graphene Oxide on the Performance of Pseudocapacitor Si-Se CHANG (Seoul National University, Korea)	13:40-14:10 [ILT2-11] BiCNx Nanotubes: Synthesis and Applications Young Se LEE (Chul Industries Inc., Korea)	13:40-14:10 [ILT3-08] Flexible Carbon Nanofiber: Controllable Fabrication and Hierarchical Porous Structure Bin Ding (Donghua University, China)	13:40-14:10 [ILT4-2] Stimuli Micro-mesoporous Carbons Prepared by Nanocasting Juan M. D. TASCION (Instituto Nacional de Carbon, CSIC, Spain)	13:40-14:10 [LT1-09] Graphene Oxides and its Hybrids as Photocatalyst for Solar Fuels Kun-Hwan CHEN (National Taiwan University, Taiwan)	13:40-14:10 [ORNC-02] Hierarchically Assembled Ultrathin Films of Graphene Nanosheets: From Energy to Biomedical Applications Byoung-Su KIM (National Institute of Science and Technology, Korea)
13:50-14:10	14:00-14:20 [ORT1-39] Influence of the Manganese (VII) containing Oxidant Species on the Chemical Structure of Graphene Oxide during the Oxidative Exfoliation of Natural Graphite Flakes Jong-Hun KANG (Seoul National University, Korea)	14:00-14:10 [ILT2-12] Correlation between Characteristics of MWCNTs and Degree of Length Reduction during Injection Molding Process Jun Young OH (Seoul National University, Korea)	14:00-14:10 [ORT2-23] Determination of Sorbent Characteristics Produced from Fibrous Carbons by Adsorption Method Kim Bong HOANG (Lomonosov Moscow State University of Fine Chemistry, Russian Academy of Sciences, Russia)	14:00-14:10 [ORT1-41] Development of Setup and Pys Characterization of Ignition Temperature of Granular activated Carbon according to ASTM Guidelines Jung-Pyo PARK (Pohang Institute of Chemistry Chinese Academy of Sciences, P.R.China)	14:00-14:10 [ORT1-38] TGA/FT-IR/MS Analysis and Product Characterization of Biomass, Coal and Polymer Pyrolysis Gurpreet CHHIB (Inzebu University, Turkey)	14:00-14:10 [ORNC-03] Nanoscale Organically Engineered Organic Semiconducting Materials for High-Performance Sensors Joon-Hak OH (Pohang University of Science and Technology, Korea)
14:10-14:30	14:10-14:40 [ORT1-40] Interfacial Adhesion and Diffusion Barrier Characteristics of Synthesized Graphene Tasook YOON (Korea Advanced Institute of Science and Technology (KAIST), Korea)	14:10-14:40 [ILT2-13] BiCNx Nanotubes: Synthesis and Applications Young Se LEE (Chul Industries Inc., Korea)	14:10-14:40 [ORT2-24] Correlation between Characteristics of MWCNTs and Degree of Length Reduction during Injection Molding Process Jun Young OH (Seoul National University, Korea)	14:10-14:40 [ORT1-42] Inhibition Effect of Carbon Nanotubes on Amyloid Fibrillation Yusaku HOSHIMAKI (Tohoku University, Japan)	14:10-14:40 [ORT1-39] Design of Nitrogen-doped Porous Carbon Nanofibers and the Effect of their Textural Properties on Oxygen Reduction Performance Jong-Sung YU (Korea University, Korea)	14:10-14:40 [ORNC-04] A Textile Carbon Platform for Electronic Skin: Stretchable Capacitive Tactile Sensors with Highly Conductive CNT Fibers Do Hwan KIM (Sogang University, Korea)
14:30-14:50	Break (20 min)					
Room	HALL A	HALL B	SANDA	303	401	402
Session	T1: Graphene	T2: CNTs and Related Carbon Nanomaterials	T3: Precursors, Carbon Fibers, and Composites	T5: Porous Carbons, Carbons for Health and Environmental Protection	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving	RIMS Academy Laboratory - GRI Joint Workshop on Organic & Carbon Nanomaterials for Smart Applications
Chair	Bar JANG, Zengzhou LEE	Mauricio TERRONES, Cheol Jin LEE	Nicola GALLEGIO, Hui-Duk CHUNG	Nobuhiko KAMIMARI, Jeonhyung BYUN	Jason Jaehun GU, Jong-Sung YU	Wanhoo LEE
15:10-15:30	15:10-15:30 [ORT1-42] Ultrathin Graphene Films with Parallel and Perpendicular Orientation of Carbon Layers from BBL Polymer Yusaku SONEIDA (National Institute of Advanced Industrial Science and Technology (AIST), Japan)	15:10-15:30 [ORT2-25] In Situ Monitoring of Multilayered Graphene Composite Manufacturing Using Percolated Carbon Nanotube Networks Jae-Hwan GUNAWANUNG (NGOUCOM/UNIST, Korea)	15:10-15:30 [ORT1-43] Nano-porous Phenolic Resin with Excellent Thermal Insulation Property and High Compressive Strength Xiaoping WANG (Institute of Chemistry Chinese Academy of Sciences, China)	15:10-15:30 [ORT1-43] Nano-porous Phenolic Resin with Excellent Thermal Insulation Property and High Compressive Strength Xiaoping WANG (Institute of Chemistry Chinese Academy of Sciences, China)	15:10-15:30 [ORT1-41] Oxygen Reduction Activities of Ammonia-Treated Fullerenes Soots Nobuhiko KAMIMARI (Gummi University, Japan)	15:10-15:40 [ORNC-05] Site-selective Functionalization of Graphene Oxide Sheets for Graphene Hybrid Materials Jin Li LEE (Korea Institute of Materials Science (KIMS), Korea)
15:30-15:50	15:30-15:50 [ORT1-43] Graphene-ZnO-Au Nanocomposites for Rapid Photocatalytic Degradation of Nitrobenzene Ferasi ROY (National Taiwan University, Taiwan)	15:30-15:50 [ORT2-26] Next to 100% Optical Absorption of Carbon Nanowalls Stanislav EVLASHIN (M.V. Lomonosov Moscow State University, Russia)	15:30-15:50 [ORT1-44] Properties of Hydrogen Confined in Nanopores of Activated Carbon Nicola GALLEGIO (Oak Ridge National Laboratory, USA)	15:30-15:50 [ORT1-44] Properties of Hydrogen Confined in Nanopores of Activated Carbon Nicola GALLEGIO (Oak Ridge National Laboratory, USA)	15:30-15:50 [ORT1-42] Oxidized Carbon Nanotubes as Metal-free Catalytic Platforms for Oxygen Reduction Reaction Kuang-Hua WU (The University of Queensland, Australia)	15:30-15:50 [ORNC-06] Research Activity on "Development of Carbon Materials from Low Grade Petroleum Resources" Chul Woo Lee (Industry Promotion Center, Division of Green Chemistry and Engineering, KRICT, Korea)
15:50-16:10	15:50-16:10 [ORT1-44] Synthesis of Multi-scale Reinforcement Fabric by Electrostatic Deposition of Graphene Oxide onto Carbon Fiber Layers Frédéric HE (Central South University, China)	15:50-16:10 [ORT2-27] Graphitization of Amorphous Carbon Powder by Microwave Taeoum KIM (POSTECH, Korea)	15:50-16:10 [ORT1-45] A new Method to Increase the Mesopore Volume of Carbon Nanospheres Obtained through the Ion Templating Method Using Destabilized Emulsion Hirotaka IWAMURA (Hokkaido University, Japan)	15:50-16:10 [ORT1-45] A new Method to Increase the Mesopore Volume of Carbon Nanospheres Obtained through the Ion Templating Method Using Destabilized Emulsion Hirotaka IWAMURA (Hokkaido University, Japan)	15:50-16:10 [ORT1-43] A Graphene-Carbon Nanotube Hybrid as the High Performance Air-Carbon Oxygen Reduction Catalyst Wei Wei (Tianjin University, China)	15:50-16:10 [ORNC-07] Planning Strategy and Research Activity on "Development of Carbon Materials and Industry in Korea" Chair: Chul Woo LEE, Young-Pyo JEON [ORNC-08] Planning Strategy on "Development of Carbon Materials for IT based on Fusion/Convergence Technology" Goo-Chang Oh (Division of New Growth Industry, Gyeongangbuk-Do, Korea)
16:10-16:30	16:10-16:30 [ORT1-45] Preparation and Characterization of Cross-linked Graphene-based Film with Improved Gas Barrier Performance Hansu JUNG (Seoul National University, Korea)	16:10-16:30 [ORT2-28] Development of Multi-functional Glass Fibres Using Carbon-based Nanocomposite Coating Peng-Cheng MA (The Jilinjing Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, China)	16:10-16:30 [ORT1-46] Dynamic Volume Separation of Methane Isotopes with Porous Carbons Hirotaka IWAMURA (Shizuoka University, Japan)	16:10-16:30 [ORT1-46] Dynamic Volume Separation of Methane Isotopes with Porous Carbons Hirotaka IWAMURA (Shizuoka University, Japan)	16:10-16:30 [ORT1-44] Structures and Oxygen Reduction Activities of Graphene Oxide Hybrid Catalysts Takuya MAE (Gummi University, Japan)	16:10-16:30 [ORNC-09] Research Activity on "Development of Carbon Materials from Low Grade Petroleum Resources" Chul Woo Lee (Industry Promotion Center, Division of Green Chemistry and Engineering, KRICT, Korea)
16:30-17:30	TAMINA A Poster Session 2 16:30-17:30					
17:30-18:00	Break (30 min)					
18:00-20:00	TAMINA B Banquet (18:00-20:00)					

Date/ Time	July 4 (Fri)					
8:00-8:30	Registration					
Room	HALLA A	HALLA B	SAMDA	303	401	402
Session	T2: CNTs and Related Carbon Nanomaterials	T5: Porous Carbons, Carbons for Health and Environmental Protection	T5: Porous Carbons, Carbons for Health and Environmental Protection	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving	T7: Analysis, Characterization, Computation and Modelling of Carbons
Chair	Yutaka OHNO, Kun-Hong LEE	Krisztina LÁSZLÓ, Yong Joong KIM	Yukie SAITO, Jae Uk LEE	Oswin OETTINGER, Jae-Sung ROH	Huaihe SONG, Sang Eun SHIM	Noriko YOSHIZAWA, Seok KIM
8:30-8:50	(8:30-9:00) [ILT5-03] New Carbon Materials for Energy Storage and Environmental Applications Joaquín SILVESTRE-ALBERO (Universidad de Alicante, Spain)	(8:30-9:00) [ORT5-56] Air Purifying Effect of Activated Carbon Fiber Wind-Through Fence in Beijing, China and Osaka, Japan Masaki YOSHIKAWA (Osaka Gas Co., Ltd., Japan)	(8:30-9:00) [ILT6-10] Graphite – The Anode Material for Lithium Ion Batteries: Some Industrial Perspectives Oswin OETTINGER (SGL Group - The Carbon Company, Germany)	(8:30-9:00) [ORT6-56] Facile Hydrothermal Synthesis of Graphene Aerogel/cobalt Oxides Nanocomposites with Exceptional Lithium Storage Properties Mohammad AKBARI GARAKAN (The Hong Kong University of Science and Technology (HKUST), Hong Kong)	(8:30-9:00) [ORT7-24] Effects of Surface Heterogeneity on Adsorption of Carbon Dioxide and Methane in Activated Carbon Atschat WONGKOB LAP (Suranaree University of Technology, Thailand)	
8:50-9:10	(8:30-9:00) [ILT12-12] From CVD Synthesis to CNT Yarns Ya-Li LI (Tianjin University, China)	(9:00-9:30) [ILT5-04] Production and Characterization of Lignin-based Activated Carbon Fibers Witita GALLEGO (Oak Ridge National Laboratory, USA)	(9:00-9:20) [ORT5-57] Production and Characterization of activated Carbon from Microwave assisted Chemical Activation and its Dye Adsorption Properties Ozge CEPELIOĞULLAR (Istanbul Technical University, Turkey)	(9:00-9:20) [ORT6-45] Enhanced Electro-oxidation/corrosion Resistance of Carbon Electrodes induced by Phosphorus-containing Surface Groups Rajul BERENGUER (University of Malaga, Spain)	(9:00-9:20) [ORT6-57] A Simple Approach to Porous Graphene Nanosheets Containing Fullerene-like Nano-holes with Favorable High-rate Li-storage Performance Huaihe SONG (Beijing University of Chemical Technology, China)	(9:00-9:20) [ORT7-25] Identifying the Underlying Mechanisms of Water Adsorption Hysteresis in Carbon Microspores by Scanning Isotherms Leticia VELASCO (Royal Military Academy, Belgium)
9:10-9:30	(9:00-9:20) [ORT2-29] Effect of carbon sources on the morphology of the CNTs in the direct synthesis of CNT yarns Sung-Hyun LEE (POSTECH, Korea)		(9:20-9:40) [ORT5-58] Hierarchical Composites of Phenol derived activated Carbon as Effective and Scalable Filters for the Removal of Trace Organic Micropollutants from Water Sergey MIKHALOVSKY (Nazarbayev University, Kazakhstan)	(9:20-9:40) [ORT6-46] Binder and Current collector free, thick freestanding graphene film as Anode Materials for Lithium-ion Battery Kudeep RANA (Yonsei University, Korea)	(9:20-9:40) [ORT6-58] From Biomass to High Performance Solar-Thermal and Electric-Thermal Energy Conversion and Storage Materials Yuanqing LI (Khalifa University, United Arab Emirates)	(9:20-9:40) [ORT7-26] Perpendicular/Parallel Orientation of Layers Formed in the Carbonization Process of Self-Supported Ultrathin Films from BBL Polymer Noriko YOSHIZAWA (National Institute of Advanced Industrial Science and Technology, Japan)
9:30-9:50	(9:20-9:40) [ORT2-30] Mass Production of Continuous Single Wall Carbon Nanotube/PVA Composite Fiber Gengsheng ZHOU (Korea Institute of Materials Science, Korea)	(9:20-9:40) [ORT5-47] Nitrogen Containing Carbon Aerogels based on Resorcinol – Melamine – Formaldehyde Hydrogels Krisztina LÁSZLÓ (Budapest University of Technology and Economics, Hungary)	(9:20-9:40) [ORT5-59] High Selective Adsorption of Dibenzothiophene over Ordered Mesoporous Cu(I)/Carbon-silica Nanocomposites Jieling CHENG (Shanghai Institute of Technology, China)	(9:40-10:00) [ORT6-47] Rational Design and Optimization of Porous Carbon Nanofibers for High-performance Rechargeable Lithium-Sulfur Batteries Xiang-Qian ZHANG (Dalian University of Technology, China)	(9:40-10:00) [ORT6-59] Diaminohexane-assisted Preparation of Coral-like, Poly(benzoxazine)-based Porous Carbons for Electrochemical Energy Storage Shuai WANG (Dalian University of Technology, China)	(9:40-10:00) [ORT7-27] Defective Regions and not Orientation of Crystallites to Explain the in-plane Physical Properties of Anisotropic Carbons with High Cohesion of Crystallites Francisco EMMERICH (Federal University of Espirito Santo, Brazil)
9:50-10:10	(9:40-10:00) [ORT2-31] Effect of Polymer Infiltration on Structure and Properties of Carbon Nanotube Yarns Yeonsu JUNG (Seoul National University, Korea)	(9:40-10:00) [ORT5-48] Facile Synthesis of Embedded Iron Nanoparticles in Carbide-Derived Carbons Michael MANGARELLA (Georgia Institute of Technology, USA)	(9:40-10:00) [ORT5-60] High Surface Area Charcoal by Selective Pyrolysis of Cellulose of Natural Plant Fiber Yukie SAITO (The University of Tokyo, Japan)	(10:00-10:20) [ORT6-48] Heteratoms Co-doped Mesoporous Carbon Materials for Energy Storage and Conversion: Synthesis and Electrochemical Performance Wen YANG (Beijing Institute of Technology, China)	(9:40-10:00) [ORT6-60] A Hybrid Carbon containing Sandwiched Porous Carbon Sheets and Graphene Sheets as Polysulfide Reservoir for High Performance Lithium-sulfur Batteries Niu SHUZHANG (Tsinghua University, China)	(9:40-10:00) [ORT7-28] Breakthrough behavior of Organic-inorganic Mixtures adsorbed on activated Carbon Filters Linná BERZOVSKA (Royal Military Academy, Belgium)
10:10-10:30	(10:00-10:20) [ORT2-32] Fabrication of High-strength Carbon Nanotube Fibers Alum JUNG (POSTECH, Korea)	GPEC 2014 Award Talk (10:00-10:20) [ORT5-49] In situ Evolution of the Porous Structure of Expanded Graphite under Uniaxial Pressure Félix BALIMA (University of Lyon, France)	(10:20-10:40) [ORT5-61] To Make Contaminated Groundwater Drinkable by Adsorption on GAC in a Sustainable Way: Application to the Tetrachloroethylene Mananne MIGUET (CNRS, France)	(10:20-10:40) [ORT6-49] Electrochemical Activity of Nanoshell-Containing Carbons for Hydrogen Evolution Reaction Jun-ichi OZAKI (Gunma University, Japan)	(10:20-10:40) [ORT6-61] Preparation of N-containing Carbons from Wool and their Catalytic Activities for Oxygen Reduction Reaction Machiko TAKIGAMI (Gunma University, Japan)	(10:20-10:40) [ORT7-29] Role of Surface Phosphorus Complexes in the Oxidation of Activated Carbons Jose RODRIGUEZ MIRASOL (University of Malaga, Spain)
10:30-10:50	Break (20 min)					
10:50-11:40	[Room: TAMNA A]	(Chair: Wilhelm FROHS)	[PL05] Carbon Fiber Composite Materials - Developments, Commercializations and Applications- Makoto ENDO (Toray Industries, Inc. Japan)			
11:40-13:10	Lunch (11:40-13:10)					
Room	HALLA A	HALLA B	SAMDA	303	401	402
Session	T2: CNTs and Related Carbon Nanomaterials	T5: Porous Carbons, Carbons for Health and Environmental Protection	T5: Porous Carbons, Carbons for Health and Environmental Protection	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving	T6: Carbons for Sustainable Energy Conversion and Storage, Carbons for Energy Saving	T7: Analysis, Characterization, Computation and Modelling of Carbons
Chair	Ya-Li LI, Young Sil LEE	Benoit COASNE, Chang-Ha LEE	Agata LAMACZ, Young-Seak LEE	Pulickel AJAYAN, Jin-bong KIM	Sergey MIKHALOVSKY, Kyu Soon PARK	Steven RICHARDSON, Yern Seung KIM
13:10-13:30	[ORT2-33] Highly Crystalline 1D Crystals of Elemental Chalcogens inside Carbon Nanotubes: A Challenge toward Transformation of Non-metals into Metals Toshihiko FUJIMORI (Shinshu University, Japan)	[ORT5-50] Adsorption of Carbon Dioxide, Methane, and their Mixture in Porous Carbons in the Presence of Water Benoit COASNE (CNRS / MIT, USA)	[ORT5-62] The Catalytic Role of Carbon Nanomaterials Formed via HC Decomposition in Reactions Leading to H ₂ Production and CO Oxidation Agata LAMACZ (Polish Academy of Sciences, Poland)	[ORT6-50] Microporous Carbon Nanosheets with Precisely Tunable Thickness for Use in High Rate and Long Cycle Life Supercapacitors Jin ZHENYU (Dalian University of Technology, China)	[ORT6-62] Doping Graphene on Carbon-coated SnO ₂ Nanoparticles as the Anode of Lithium-ion Battery Guilang WU (China University of Petroleum, China)	[ORT7-30] Correlation between the Chirality and Structural Stability and Solubility Parameters of SWCNTs Kunsil LEE (Seoul National University, Korea)
13:30-13:50	[ORT2-34] CVD growth OH-CNTs as Support of Iridium-NHC Complexes for Hydrogen Transfer Catalytic Applications Patricia ALVAREZ (Instituto Nacional Del Carbon, CSIC, Spain)	[ORT5-51] Competitive Adsorption behavior of CO ₂ /CH ₄ on Dry and Wet Coal at High Pressure Chang-Ha LEE (Yonsei University, Korea)	[ORT5-63] Adsorption of Phenol by Carbon Sorbents based on Chemically Activated Humic Coal Zifer ISMAGILOV (Institute of Coal Chemistry and Material Science, Russia)	[ORT6-51] Controlled Synthesis of Porous Carbon-Based Hybrids for Enhanced Cycle Stability of Lithium Ion Batteries: Mechanism and Material Properties Fei HAN (Dalian University of Technology, China)	[ORT6-63] Fabrication of Submicron Mseophase Pitch-based Carbon Fibers and their Application to Lithium Ion Batteries as Conductive Additives Fujiu OKINO (Shinshu University, Japan)	[ORT7-31] Hansen Solubility Parameters of Carbon Nanomaterials as determined by an Inverse Gas Chromatography Method Hyeonung Jun LIM (Seoul National University, Korea)
13:50-14:10	[ORT2-35] Co ₃ O ₄ Nanocrystals Supported on Nitrogen-Doped Carbon Nanotubes as Synergetic Electrocatalysts toward Oxygen Reduction Reaction Jingjun LIU (Beijing University of Chemical Technology, China)	[ORT5-52] High pressure CO ₂ capture over amino-containing activated carbon Diego CAZORLA-AMOROS (Universidad de Alicante, Spain)	[ORT5-64] The Effect of Bacterial Toxicity of Diverse Morphologies of Carbon Nanotube-based Membranes and their Leaching Water on Antibiofouling Properties Kwang Jin LEE (Korea University, Korea)	[ORT6-52] Porous Hollow Carbon Spheres Derived from Polyaniline for lithium-ion Batteries Haiyan LIU (Beijing University of Chemical Technology, China)	[ORT6-64] Na Ion Battery Electrode Property of Graphene-Like Molecules Synthesized by Fusing Treatment of Polycyclic Aromatic Hydrocarbons Taichi HAYAKAWA (Nagoya Institute of Technology, Japan)	[ORT7-32] Hexagonal Diamondoids: A New Class of Carbon Nanostructures Steven RICHARDSON (Howard University, USA)
14:10-14:30	[ORT2-36] Preparation of water-soluble photoluminescent carbon quantum dots from petroleum coke and its application Yue WANG (China University of Petroleum, China)	[ORT5-53] Using Three Different Activated Agents to Produce Cow Manure Activated Carbon for CO ₂ Removal Lo TSUI (Ming Chi University of Technology, Taiwan)	[ORT5-65] Flexible, Hierarchical Carbon Nanoarchitectures via a Dual Latex-Block Copolymer Templating Approach Shiori KUBO (National Institute of Advanced Industrial Science and Technology, Japan)	[ORT6-53] Investigation of the Electrochemical Properties of Highly Porous Carbon Materials with Metal Hydroxide to Produce Compositized Electrodes with a High Capacity Andrey PUZYRNIN (Institute of Coal Chemistry and Material Science, Russia)	[ORT6-65] Designed Synthesis of Magnetic Yolk-shell Nanocatalysts for Liquid Phase Hydrogenation Reaction Qiang SUN (Dalian University of Technology, China)	[ORT7-33] Magnetic Resonance Tracking of Fluorescent Nanodiamond Fabrication Alexander SHAMES (Ben-Gurion University of the Negev, Israel)
14:30-14:50		[ORT5-54] Changes in Paramagnetic Properties of Pitch, Pitch Fiber and Anthracite at the Pore Formation Victor BERVENO (ISSC&MC SB RAS, Russia)	[ORT5-66] Preparation and Characterization of Carbon Foams reinforced by Mg ₂ B ₂ O ₅ Whiskers Jingxian XU (Northwestern Polytechnical University, China)	[ORT6-54] Carbon Nanotubes/Nanofibers Composites from Cellulose as Electrodes for Sustainable Energy Devices Volodymyr KUZMENKO (Chalmers University of Technology, Sweden)	[ORT6-66] Electrospun Carbon Nanofibers Containing Modified Silicon Particles and Conductive Additives as High Performance Anodes Zheng-Long XU (The Hong Kong University of Science and Technology, Hong Kong)	
14:50-15:20	[Room: HALLA A]	Closing Remark				