

Sunday March 27		
14:00-18:00 PM	Onsite Registration & Sign up	
Monday Morning March 28 Room A(Pikake)		
8:20-8:25 AM	Opening Ceremony	
Session: Nanotubes Applications I		Chair: Moon Kim
8:25-8:50 AM	A01: Energy storage using carbon-based nanoporous material structures	Jisoon Ihm Seoul National University, Korea
8:50-9:15 AM	A02: Production of Carbon Nanotubes from Graphite via Molten Salt Electrochemistry and their Application in Energy Devices	Carsten Schwandt University of Nizwa, Oman
9:15-9:40 AM	A03: 3-D nickel-metal layered double hydroxide/CNT nano-architecture composites for high power energy storage application	Zexiang Chen University of Electronic Science and Technology of China, China
9:40-10:05 AM	A04: Nanocomposite Fabric Sensors for Human Performance Monitoring	Kenneth J. Loh University of California San Diego, USA
10:05-10:25 AM	Session Break	
Session: Graphene-General I		Chair: Jisoon Ihm
10:25-10:50 AM	A05: Probing carbon nanostructures for nanoelectronics down to atomic scale	Moon Kim University of Texas at Dallas, USA
10:50-11:15 AM	A06: Chemically engineered graphene like carbon layers and nanotubes	Jacek A. Majewski University of Warsaw, Poland
11:15-11:40 AM	A07: Dynamic TEM observation of the formation of graphene and carbon nanotubes	Masaki Tanemura Nagoya Institute of Technology, Japan
11:40-12:05 PM	A08: Controlling the band structure of black phosphorus	Keun Su Kim Pohang University of Science and Technology, Korea
18:00 PM	Dinner Social	

**Tuesday Morning March 29
Room B(Naupake I&II)**

Session: Theory, Simulations and Modeling of Nanotubes

Chair: Bingqing Wei

8:00-8:25 AM	B01: Density functional theory calculation for transport property of carbon nanostructures	Tomoya Ono University of Tsukuba, Japan
8:25-8:50 AM	B02: Detection of terahertz radiation by two-dimensional plasmons in lateral carbon nanotube networks	Victor Ryzhii Tohoku University, Japan
8:50-9:15 AM	B03: Mechanics modeling on the mechanical and electrical properties of carbon nanotube (CNT)-polymer composites	Liying Jiang University of Western Ontario, Canada
9:15-9:40 AM	B04: Simulational Studies of Nanotube Formation by Polymer Adsorption at a Nanowire	Michael Bachmann University of Georgia, USA
9:40-10:05 AM	B05: Atomistic modeling of buckling behavior of pressurized nanotubes	Yoshitaka Umeno University of Tokyo, Japan
10:05-10:25 AM	Session Break	
Session: Synthesis and Assembly of Nanotubes I		Chair: Tomoya Ono
10:25-10:50 AM	B06: Tailoring Carbon Nanotube Assembly for Energy Storage Applications	Bingqing Wei University of Delaware, USA
10:50-11:15 AM	B07: Investigating Growth Termination Mechanism of Carbon Nanotube Arrays Using Transmission Electron Microscopy Approach	Seung Min Kim Korea Institute of Science and Technology, Korea
11:15-11:40 AM	B08: Micro Indentation of densely aligned CNTs film grown on SiC substrate	Hatsuhiko Usami Meijo University, Japan
11:40-12:05 PM	B09: Biologically assembled conductive nanomesh of single-walled carbon nanotubes for wearable biosensors and devices	Hyunjung Yi Korea Institute of Science and Technology, Korea
12:05-13:20 PM	Lunch Break	

**Tuesday Morning March 29
Room C(Oheho)**

Session: Graphene Application		Chair: Roger Lake
8:00-8:25 AM	C01: Graphene nanosystems and low-dimensional Chern-Simons topological insulators	Eric Yang Korea University, Korea
8:25-8:50 AM	C02: Graphene - Nano-electromechanical system switches and van der Waals (vdW) interaction controlled sensing of CO ₂	Manoharan Muruganathan Japan Advanced Institute of Science and Technology, Japan
8:50-9:15 AM	C03: Stretchable, Transparent Electrodes using hybrid structures of 1D-2D Nanomaterials for Wearable Electronics	Jang-Ung Park Ulsan National Institute of Science and Technology, Korea
9:15-9:40 AM	C04: Modified Epitaxial Graphene on SiC for Selective and Highly Sensitive Gas Sensors	Jens Eriksson Linköping University, Sweden
9:40-10:05 AM	C05: Applications of Nanotechnology in Fuel Energy and Propulsion	Bruce Chehroudi Advanced Technology Consultants, USA
10:05-10:25 AM	Session Break	
Session: Electronic properties of Graphene I		Chair: Eric Yang
10:25-10:50 AM	C06: Electron transport through graphene-BN-graphene heterostructures	Roger Lake University of California Riverside, USA
10:50-11:15 AM	C07: Edge configurational effect on band gaps in Graphene nanoribbons	Rakesh Kumar Indian Institute of Technology Ropar, India
11:15-11:40 AM	C08: Van der Waals stacks of few-layer h-AlN with graphene: an ab-initio study of structural, interaction and electronic properties	Gueorgui K. Gueorguiev Linköping University, Sweden
11:40-12:05 PM	C09: Scanning Tunneling Microscopy Studies of Hydrogen Desorption from Graphene and Transformation of C ₆₀ into Graphene	Li Gao California State University Northridge, USA
12:05-13:20 PM	Lunch Break	

**Tuesday Afternoon March 29
Room B(Naupake I&II)**

Session: Nanotubes-General I		Chair: Julia Zhao
13:20-13:45 PM	B10: Thermo/Piezo – Electric Power Scavenging Using Carbon Nanotube Composites	David Carroll Wake Forest University, USA
13:45-14:10 PM	B11: Megagauss Magneto-optical Survey of Exciton States in Single-wall Carbon Nanotubes	Shojiro Takeyama University of Tokyo, Japan
14:10-14:35 PM	B12: Carbon Capture using Waste Polymers Supported on SBA-15 silica and other Nanoporous Materials	Humphrey Yiu Heriot-Watt University, UK
14:35-15:00 PM	B13: Towards Realizing a SWCNT Industry from Fundamental Science	Don Futaba National Institute of Advanced Industrial Science and Technology, Japan
Session Break & Poster Session		
15:00-15:50 PM	P01: Studies on the equivalent serial resistance of carbon supercapacitor	Changping Yang Hubei University, China
	P02: Partial Phase Coherence in Noise-Like Pulses Generated in Mode-Locked Laser Systems	Yoonchan Jeong Seoul National University, Korea
	P03: Continuous dispersion of carbon nanotubes with minimal loss and damage	Hiroyuki Shirae Waseda university, Japan
Session: Graphene-General II		Chair: David Carroll
15:50-16:15 PM	B14: Development of fluorescent graphene quantum dots for bioimaging	Julia Zhao University of North Dakota, USA
16:15-16:40 PM	B15: Anomalous enhancement of Seebeck coefficients for the graphene/h-BN composites	Jun Nakamura University of Electro-Communications, Japan
16:40-17:05 PM	B16: Quantum interference effects in graphene nanostructures	Adam Rycerz Jagiellonian University, Poland
17:05-17:30 PM	B17: In-situ Raman spectroscopy of graphene thin films containing palladium particles at the presence of hydrogen atoms	Ali Moafi Australian Microscopy and Microanalysis Research Facility, Australia
17:30-17:55 PM	B18: Ag Nanoparticles/ Graphene Oxide (GO)/ -Bi2O3 Hybrid Versatile Composites for Visible Light Photocatalysis and Chemical Catalysis	Tirtha Som Institute Nanospectroscopy and Energy Materials In Situ Laboratory, Germany
18:00 PM	Dinner Social	

**Wednesday Morning March 30
Room B(Naupake I&II)**

Session: Synthesis and Assembly of Nanotubes II		Chair: Sookyong Moon
8:25-8:50 AM	B19: Self-assembled nanotube with enzymatic functionality	Junqiu Liu Jilin University, China
8:50-9:15 AM	B20: Self-assembled Films of Polyaniline and Carbon Nanotubes: their use as transparent electrodes and gas sensors	Lucimara Stolz Roman Federal University of Paraná, Brasil
9:15-9:40 AM	B21: Forming CNT-Guided Stereocomplex Networks in Polylactide-Based Nanocomposites	Guozhang Wu East China University of Science and Technology, China
9:40-10:05 AM	B22: Self-Assembly of Peptides into Nanotubes	Seyda Bucak Yeditepe University, Turkey
10:05-10:25 AM	Session Break	
Session: Fundamental properties of Nanotubes		Chair: Junqiu Liu
10:25-10:50 AM	B23: Enhanced Mechanical property of Aligned Carbon Nanotubes /Polymer composite	Sookyong Moon Japan Aerospace Exploration Agency, Japan
10:50-11:15 AM	B24: Thermo-mechanical properties of Carbon nanotubes and applications in thermal management	Phan Ngoc Minh Vietnam Academy of Science and Technology, Vietnam
11:15-11:40 AM	B25: Preparation and property of polyaniline nanocomposites containing TiO ₂ nanoparticles and carbon nanotubes	Noriyuki Kuramoto Yamagata University, Japan
11:40-12:05 PM	B26: Nonlinear Mechanical Resonance of Cantilevered Carbon Nanotube with Electrostatic Excitation	Sooil Lee University of Seoul, Korea
12:05-13:20 PM	Lunch Break	

**Wednesday Morning March 30
Room C(Ohelo)**

Session: Nanotubes Applications II		Chair: Jeffrey M. Mativetsky
8:00-8:25 AM	C10: Application of Nanotube/Nanotechnology in Structures and Renewable Energy Productions and Storage Devices	Mehrdad Nejjhad University of Hawai'i at Manoa, USA
8:25-8:50 AM	C11: Analytical applications of carbon nanotubes based electrochemical sensors	Anton Alexandru Ciucu University of Bucharest, Romania
8:50-9:15 AM	C12: Carbon Nanotube for Cardiovascular Engineering Applications	David A Stout California State University, USA
9:15-9:40 AM	C13: Routes to carbon nanotube assembly and integration for applications	Chris Papadopoulos University of Victoria, Canada
9:40-10:05 AM	C14: Nanostructured Glass Fibers for Electro-Mechanical Response Sensor Applications in Glass Fiber Composites	Michael Mueller Leibniz Institute of Polymer Research Dresden, Germany
10:05-10:25 AM	Session Break	
Session: Electronic properties of Graphene II		Chair: Mehrdad Nejjhad
10:20-10:50 AM	C15: Multiscale Patterning of Electrical Function in Graphene Oxide	Jeffrey M. Mativetsky State University of New York, USA
10:50-11:15 AM	C16: Graphene examined with ultraslow electrons	Ludek Frank Institute of Scientific Instruments, Academy of Sciences of the Czech Republic, Czech Republic
11:15-11:40 AM	C17: Computational Design of Graphene-Nanoribbon Field Effect Transistors	Kengo Takashima Tokyo University of Science, Japan
11:45-12:05 PM	C18: Functionalizing graphene via interface engineering	Chan-Cuk Hwang Pohang University of Science and Technology, Korea
12:05-13:35 PM	Lunch Break	

**Wednesday Afternoon March 30
Room B(Naupake I&II)**

Session: Nanotubes-General II

Chair: Shadi Hasan

13:35-14:00 PM	B27: Stiffness and conformation dependent polymer wrapping of SWCNT	Masanobu Naito National Institute for Materials Science, Japan
14:00-14:25 PM	B28: Anisotropic Interaction of Ferromagnetic Nanoparticles Intercalated in Aligned Array of Carbon Nanotubes	Serghej L. Prischepa Belarus State University, Belarus
14:25-14:50 PM	B29: Production and reactivity of oxidation-resistant metallic nanoparticles on carbon nanotubes	Hideki Tanaka Faculty of Science and Engineering, Chuo University, Japan
14:50-15:15 PM	B30: Anodic Oxide Nanotubes for Energy Applications: Understanding Formation Mechanism and Defect Structures	Krishnan Raja University of Idaho, USA
15:15-15:30PM	Session Break	
15:30-15:55 PM	B31: Fabrication of CNT network and its application to GaN-based LEDs	Tae Geun Kim Korea University, Korea
15:55-16:20 PM	B32: TBA	Kenji Hata National Institute of Advanced Industrial Science and Technology, Japan
16:20-16:45 PM	B33: Electrically Conductive and Thermally Insulative Polymer Nanocomposite Foams for Thermoelectric Applications	Siu Ning Leung York University, Canada
16:45-17:10 PM	B34: Monolithic hierarchical porous carbons and its applications to energy storages and water purification	Peng Wang King Abdullah University of Science and Technology, Saudi Arabia
17:10-17:35 PM	B35: Multi-dimensional carbon fusion bonding for supercapacitor	Seong Chan Jun Yonsei Univeristy, South Korea
17:35-18:00 PM	B36: Carbon Nanotube Nanofluidics: from Fundamental to Applied Science	Francesco Fornasiero Lawrence Livermore National Laboratory, USA
18:00 PM	Dinner Social	
Thursday March 31		
One day academic exchange & excursion		

