

2nd Sungkyunkwan University-Hiroshima University Workshop on Advanced Materials Research

8th Nov (Saturday)

8:30 - 9:30	Registration with snacks for breakfast		
9:30 - 9:40	Welcome address	C. Y. Park	Dean, School of Natural Sciences
9:40 - 9:50	Welcome address	T. Jo	Dean, School of ADSM
9:50 - 10:00	Opening remarks	Y. B. Kim	Head of Physics Department

Session I		Advanced Materials I	Chairman J-Y Rhee
08A01	10:00-10:25	D-J Kang	Phase Transitions in VO ₂ nanowires
08A02	10:25-10:50	A. Tanaka	Complex-Orbital Order in Transition-Metal Compounds
08A03	10:50-11:15	J-C Lee	Two-dimensional metal-insulator transition of SrTiO ₃ /(Sr _{0.88} ,La _{0.12})TiO ₃ superlattice
08A04	11:15-11:40	F. Iga	High field magnetization of Kondo semiconductor YbB ₁₂ and Shastry-Sutherland lattice RB ₄ (R=Tb, Er and Tm)

11:40-13:00 Lunch Faculty Restaurant

Session II		Advanced Materials II	Chairman T. Jo
08A05	13:00-13:25	T. Ichikawa	Research activities of nano-composite materials for hydrogen storage
08A06	13:25-13:50	S-U Son	5-Substituted Isophthalate-Based Electrochromism
08A07	13:50-14:15	M. Udagawa	Raman Scattering Investigation of Guest Ion Motion in Cage Compounds
08A08	14:15-14:40	J-Y Rhee	Equivalent LC-circuit model for the resonances of cut-wire pair structures used in Left-Handed Metamaterials

14:40-15:00 Group Photo & Coffee Break

Session III		Advanced Materials III	Chairman T. Oguchi
08A09	15:00-15:25	T. Onimaru	Multipolar Ordered State in Pr-based Intermetallic Compounds
08A10	15:25-15:50	J-G Park	Spin-Lattice Coupling of Multiferroic (Y,Lu)MnO ₃ Systems
08A11	15:50-16:15	T. Matsumura	Magnetic Phase Transitions in RB ₄ (R=Tb, Dy, Ho) with Geometrical Frustration
08A12	16:15-16:40	H-G Lee	Recurrent character of biased random walk on regular lattices

16:40-17:00 Coffee Break

Session IV		Special Lecture I	Chairman C. Y. Park
08A13	17:00-17:30	T. Takabatake	Local phonon dynamics in thermoelectric clathrates with off-center rattling ions
08A14	17:30-18:00	Y-H Lee	Recent progresses in carbon nanotube-based flexible transparent conducting film

18:00-19:00 Lab Tour

19:00-19:20 Move to Banquet Restaurant
 19:20-19:30 Welcome remarks C. Y. Park
 19:30-21:00 Dinner
 21:00-21:10 After dinner talk T. Takabatake

9th Nov (Sunday)

9:00 - 9:35 Registration with Snacks for breakfast

Session V		Advanced Materials IV	Chairman D. J. Kang
09A01	9:35-10:00	N. Ogita	Crystal Electric Field Study in Pr-based cage compounds by Raman scattering
09A02	10:00-10:25	J-R Ahn	Electronic structure of epitaxial graphene on SiC
09A03	10:25-10:50	J. Kitagawa	Terahertz Spectroscopy by Means of Compact Sensor Chips
09A04	10:50-11:15	G-H Kim	Manipulation and trapping of metallic and semiconducting nanoparticles into nanogap electrodes for device applications
09A05	11:15-11:40	A. Sugimoto	Surface electronic states on the layered nitride superconductors observed by STM/STS

11:40-13:00 Lunch Faculty Restaurant

Session VI Poster Session Chairman F. Iga & J-R. Ahn
 13:00-14:40 Served with Beverage and Snacks

Session VII		Special Lecture II	Chairman T. Takabatake
09A06	15:00-15:30	T. Oguchi	General aspects on the Rashba effect
09A07	15:30-16:00	S-H Park	DNA Nanostructures for NanoBio Devices

16:00-16:10 Concluding remarks J-Y Rhee
 16:10-16:20 Closing address F. Iga

Poster Presentation

	Name	Affiliation	Title
09PS01	Seong-II Choi	SKKU	Manufacturing of a capacitance dilatometer
09PS02	Shinji Michimura	HU	Magnetic properties and phase diagrams of a Shastry-Sutherland lattice RB_4 (R=Er, Tm)
09PS03	Young-Soo Kim	SKKU	Structural and magnetic properties of RNi_2Mn (R=Tb, Dy, Ho, Er)
09PS04	Hirokazu Kubo	HU	Magnetic and transport properties of a frustrated antiferromagnet $YbAgGe$ under magnetic fields and pressures
09PS05	Jung-Hoon Kim	SKKU	Chiral spin states in the pyrochlore Heisenberg magnet
09PS06	Jung-Hyun Lee	SKKU	Theoretical spin-wave calculation and analysis of $YMnO_3$ & $LuMnO_3$
09PS07	Yukihiro Inoue	HU	Giant Uniaxial Anisotropy in the Magnetic and Transport Properties of $CePd_5Al_2$
09PS08	Sang-Hyun Lee	SKKU	Neutron diffraction study of multiferroic $BiFeO_3$
09PS09	Tomoo Tanaka	HU	Thermoelectric clathrates $Ba_8Ga_{16}Sn_3O$ and $K_8Ga_8Sn_{38}$
09PS10	Chan-Ik Lee	SKKU	Magnetic and thermal properties of $Tm_5Si_2Ge_2$ single crystal
09PS11	Nam-Hun Lee	SKKU	Fabrication of MgB_2 thin films at various temperatures by IACVD
09PS12	Masayoshi Aoyama	HU	Raman Scattering Study of Nano-Particle $BaTiO_3$
09PS13	Soon-Gil Jung	SKKU	Possible origin of double-peak behavior of the pinning force density in thick MgB_2 films with columnar structures
09PS14	Eun-Mi Choi	SKKU	Effect of gold coating on pinning force in MgB_2 thin film
09PS15	Akihiro Kondo	HU	Nd-Doping Effect on Phase IV of $Ce_xLa_{1-x}B_6$
09PS16	Danielle Rhen	SKKU	Characterization and Electrical Properties of Cu, CuO and Cu_2O Thin Films and Nanostructures from Quasi-Chemical Synthesis
09PS17	Hoang Anh Tuan Kiet	SKKU	Comparative Studies of The Electronic Properties of Bulk and Nanowire Vanadium Dioxide by Ab Initio Density Functional Calculations
09PS18	Hiroaki Kohbara	HU	Electric properties of graphene in magnetic field
09PS19	Tatsuo Dogakiuchi	HU	Analysis of spatial qudits with single scan tomography
09PS20	Cheol-Ho Jeon	SKKU	Initial stages of surface metallization on Si(001) at elevated temperatures
09PS21	Sung-Guk Han	SKKU	Reentrant phase transition in a predator prey model
09PS22	Seong-chu Lim	SKKU	High Current Emission Properties of Carbon-Nanotube Point Electron-Source
09PS23	Gunn Kim	SKKU	Tailoring of the electronic structure in a carbon nanotube by charge dopant encapsulation
09PS24	Taisuke Ono	HU	Gas desorption and structural properties of Li-Al-Amide system

09PS25	So-Yeon Kim	SKKU	Single and Multilayer DNA Nanostructures as Resist Shadow Masks
09PS26	Min-Kook Kim	SKKU	Peptide reaction of Glycine on an amine-terminated Si(100)2x1 surface
09PS27	Woo-Jong Yu	SKKU	Doping control of ionic adsorbates by induced-bias on carbon nanotube thin film transistor
09PS28	Kazuhiro Shohara	HU	STM observation of the layered superconductor K_xTiNCl
09PS29	Eun-Ju Ra	SKKU	High power pseudo capacitor using Polyacrylonitrile-Based Nanofiber Paper
09PS30	loc duong ding	SKKU	Computational simulations of encapsulation of anticancer drugs inside Carbon Nanotubes
09PS31	Kosei Nakamura	HU	XPS study on lithium hydride
09PS32	Mei Hua Jin	SKKU	Electric property of graphite oxides
09PS33	Akitaka Michigoe	HU	Raman scattering of $LiNH_2$
09PS34	Jung-hwan Park	SKKU	Structural study of Metal hydrides: $Ti_{0.32}Cr_{0.43}V_{0.25}$ and $Ti_{0.33}Mn_{0.30}V_{0.37}$
09PS35	Seung-Jin Chae	SKKU	Lateral growth of long Single-Walled Carbon nanotube (SWCNTs) arrays on a Si substrate
09PS36	Dae-Sik Lee	SKKU	CNT-ink analysis and a cold cathode fabrication by jet-printing
09PS37	Eun-Sung Kim	SKKU	Synthesis of Thin graphite sheet on Ni deposited Substrate by Remote RF Plasma-Enhanced Chemical Vapor Deposition
09PS38	Soo-Min Kim	SKKU	Tailoring Electronic Structures of Carbon Nanotubes by Solvent with Electron Donating and Withdrawing Groups
09PS39	Hyeon-Ki Park	SKKU	The effect of dispersants in dispersing carbon nanotubes for flexible transparent conducting film
09PS40	Mahipal Ranot	SKKU	Influence of Ag and Cu impurity layers on microstructure and superconducting properties of MgB_2 thick films