Schedule

October 10th, 2009 (Saturday)

18:00 - Welcome Party at *"ESPOIR"*, EPOCHAL Tsukuba

October 11th, 2009 (Sunday)

8:30 – 9:00		Registration
9:00 – 9:30		Opening Remarks by President of UT, Dr. Yamada and Prof. Ging-Ho Hsiue
9:30 – 10:00	OP-01	Greeting and Oral Presentation by Prof. Youiti Ootuka
10:00 – 10:20		Break
10:20 – 10:40	IL-01	Assistant Prof. Chih-Kuang Yeh
10:40 – 11:00	OP-02	Prof. Hidemi Shigekawa
11:00 – 11:20	IL-02	Dr. Tomonobu Nakayama
11:20 – 11:40	IL-03	Associate Prof. Chien-Neng Liao
11:40 – 12:30		Lunch
12:30 – 14:30	PP-01-63	Poster Session in Room 405
14:30 – 14:50	OP-03	Prof. Yutaka Moritomo
14:50 – 15:10	IL-04	Dr. Katsuhiko Ariga
15:10 – 15:30	IL-05	Associate Prof. Wen-Kuang Hsu
15:30 – 15:50	OP-04	Prof. Tatsuya Nabeshima
15:50 – 16:10		Break
16:10 – 16:30	OP-05	Prof. Takaki Kanbara
16:30 – 16:50	IL-06	Prof. Kuo Chu Hwang
16:50 – 17:10	IL-07	Dr. Yuji Miyahara
17:10 – 17:30	IL-08	Assistant Prof. Ryu Hasunuma
17:30 – 17:45		Photo Session
18:00		Reception

October 12th, 2009 (Monday)

9:00 – 9:20	OP-06	Prof. Toshiharu Teranishi
9:20 – 9:40	IL-09	Prof. Shangjr (Felix) Gwo
9:40 – 10:00	OP-07	Associate Prof. Keiichi Tomishige
10:00 – 10:20		Break
10:20 – 10:40	IL-10	Associate Prof. Michael Hsuan-Yi Huang
10:40 – 11:00	IL-11	Dr. Jun Nakanishi
11:00 – 11:20	IL-12	Assistant Prof. Chien-Chong Hong
11:20 – 11:40	OP-08	Prof. Yukio Nagasaki
11:40		Closing Remarks by Youiti Ootuka

Oral Presentation Program

Invited Lectures (IL) and Oral Presentations (OP)

October 11th, 2009 (Sunday)

OP-01	**Electrical Transport through Superconducting Nano-Bridge** Prof. Youiti Ootuka (*Graduate School of Pure and Applied Sciences, Physics, University of Tsukuba*)	9:30–10:00
IL-01	**High-Frequency Ultrasound And Molecular Imaging** Assistant Prof. Chih-Kuang Yeh (*Biomedical Engineering and Environment Sciences, National Tsing Hua University*)	10:20-10:40
OP-02	**Studies on laser-combined STM** Prof. Hidemi Shigekawa (*Graduate School of Pure and Applied Sciences, Frontier Science, University of Tsukuba*)	10:40-11:00
IL-02	**Multiple-scanning-probe microscope for electrical and physiological measurements at the nanoscale** Dr. Tomonobu Nakayama (*Nano Functionality Integration Group, Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS)*)	11:00-11:20
IL-03	**In-situ TEM Observation of Electromigration in Nanotwinned Copper** Associate Prof. Chien-Neng Liao (*Materials Science and Engineering, National Tsin Hua University*)	11:20-11:40
OP-03	**Advanced functionality of Prussian Blue heterojunction** Prof. Yutaka Moritomo (*Graduate School of Pure and Applied Sciences, Physics, University of Tsukuba*)	14:30-14:50
IL-04	**Supramolecular Tricks for Nanotechnology: Hand-Operating Nanotechnology** Dr. Katsuhiko Ariga (*Supermolecules Group, Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS)*)	14:50-15:10
IL-05	**Engineering applications of carbon nanotubes** Associate Prof. Wen-Kuang Hsu (*Materials Science and Engineering, National Tsing Hua University*)	15:10-15:30
OP-04	**Novel Molecular Recognition Modes via Unique 3D Arrangement of Non- classical Hydrogen Bonds** Prof. Tatsuya Nabeshima (*Graduate School of Pure and Applied Sciences, Chemistry, University of Tsukuba*)	15:30-15:50
OP-05	**Molecular Design of Polyaniline Analogues Based on Organometallic Carbon-nitrogen Bond Formation** Prof. Takaki Kanbara (*Graduate School of Pure and Applied Sciences, Materials Science, University of Tsukuba*)	16:10-16:30
IL-06	**Metal-Filled Carbon Nanoparticles: Production and Growth Mechanism.** Prof. Kuo Chu Hwang (*Environmental Health and Safety Center, Dept. of Chemistry, National Tsing Hua University*)	16:30-16:50
IL-07	**Detection of biomolecular recognition using bio-transistors** Dr. Yuji Miyahara (*Biomaterials Center, National Institute for Materials Science (NIMS)*)	16:50-17:10
IL-08	**Nano Structure Control of Silicon Crystal Surface** Assistant Prof. Ryu Hasunuma (Graduate School of Pure and Applied Sciences, Applied Physics, *University of Tsukuba*)	17:10-17:30

October 12th, 2009 (Monday)

OP-06	**Synthesis and Structure-specific Functions of Inorganic Nanoparticles** Prof. Toshiharu Teranishi (*Graduate School of Pure and Applied Sciences, Chemistry, University of Tsukuba*)	9:00-9:20
IL-09	**Tunable Plasmonic Properties of Near-Field-Coupled Gold Nanoparticles: Dimers, Chains, and Arrays** Prof. Shangjr (Felix) Gwo (*Dept. of Physics, National Tsing Hua University*)	9:20-9:40
OP-07	**Conversion of Biomass and CO2 to Value-Added Chemicals Using Heterogeneous Catalysis** Associate Prof. Keiichi Tomishige (*Graduate School of Pure and Applied Sciences, Materials Science, University of Tsukuba*)	9:40-10:00
IL-10	**Aqueous Solution Synthesis of Novel Gold and Palladium Nanostructures** Associate Prof. Michael Hsuan-Yi Huang (*Dept. of Chemistry, National Tsing Hua University*)	10:20-10:40
IL-11	**Colloidal gold nanoparticles bearing a photocleavable group as new template for caged compounds synthesis** Dr. Jun Nakanishi (*Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS)*)	10:40-11:00
IL-12	**Disposable Lab-on-Chip Systems for Point-of-Care Diagnostics** Assistant Prof. Chien-Chong Hong (*Dept. of Power Mechanic Engineering, National Tsing Hua University*)	11:00-11:20
OP-08	**Gold Nanoparticle-Containing Nanogel as a Tool for New Therapy** Prof. Yukio Nagasaki (*Graduate School of Pure and Applied Sciences, Materials Science, University of Tsukuba*)	11:20-11:40

Poster Presentation Program

PP-01 **Functionality of heterojunction of Prussian blue analogues**
Takayuki Shibata (*Graduate School of Pure and Applied Sciences/Physics, University of Tsukuba*)

PP-02 **Dynamics of photo-induced phase transition in Co-Fe cyanide films and search for hidden phase**
Hayato Kamioka (*Institute of Physics and TIMS・Physics, University of Tsukuba*)

PP-03 **Structural phase transition induced by hole-doping in Co-Fe cyanide**
Kazuhiro Igarashi (*Graduate School of Pure and Applied Sciences/Physics, University of Tsukuba*)

PP-04 **Valence-differential spectroscopy of Fe-Fe cyanide film**
Yutaro Kurihara (*Graduate School of Pure and Applied Sciences, University of Tsukuba*)

PP-05 **Optical spectra of $(K_{1-x}Na_x)_{0.35}Co[Fe(CN)_6]_{0.74}zH_2O$**
Yuta Abe (*Dept. of Physics, University of Tsukuba*)

PP-06 **Electrochemical control of the elution property of Prussian blue nanoparticles thin films: Mechanism and Applications**
Ayako Omura (*Graduate School of Pure and Applied Sciences・physics AIST*)

PP-07 **Cation Exchange Induced Phase Transition in Cobalt(II) Hexacyanoferrate(II)**
Tomoyuki Matsuda (*Graduate School of Pure and Applied Sciences/ Department of Physics, University of Tsukuba*)

PP-08 **Thermal Expansion Phenomena in Prussian Blue Analogues**
Tomoyuki Matsuda (*Graduate School of Pure and Applied Sciences/ Department of Physics, University of Tsukuba*)

PP-09 **Cation Recognition of Oligo-Dipyrrin Boron Complexes by the BF2 Moieties**
Naoya Sakamoto (*Graduate School of Pure and Applied Sciences, Chemistry, University of Tsukuba*)

PP-10 **Aromatic Guest Recognition of Molecular Clefts Bearing Inert Terpyridine Platinum(II) Complexes**
Yuki Hasegawa (*Graduate School of Pure and Applied Sciences, University of Tsukuba*)

PP-11 **Synthesis of Heteronuclear Trisaloph Complexes Having Adamantane Moieties**
Masao Sasaki (*Graduate School of Pure and Applied Sciences/Frontier Science (Chemistry), University of Tsukuba*)

PP-12 **Spontaneous Enrichment of One-handed Helix by Dissolution of Pseudoracemic Crystals of a Tetranuclear Helical Complex**
Sayaka Hotate (*Graduate School of Pure and Applied Sciences/Frontier Science, University of Tsukuba*)

PP-13 **Metal Ion Recognition of Novel Binaphthyl Podands Bearing Phosphoryl Groups**
Futoshi Sato (*Graduate School of Pure and Applied Sciences, University of Tsukuba*)

PP-14 **Synthesis and Cation Recognition of Macrocyclic Metallohost Bearing Two ickel(II) Complex Moieties**
Shunjin Piao (*Graduate School of Pure and Applied Sciences, University of Tsukuba*)

PP-15 **Synthesis and Functions of Dipyridylbipyrimidine Ligand Bearing Thiourea Moieties**
Yui Togawa (*Graduate School of Pure and Applied Sciences, University of Tsukuba*)

PP-16 **Synthesis and Optical Properties of Aluminum Complex of N2O4-type Dipyrrin**
Manami Daicho (*Graduate School of Pure and Applied Sciences, University of Tsukuba*)

PP-17 **Mg^{2+} triggered phosphorescence of a new iridium complex**
Jeremy Brandel (*Graduate School of Pure and Applied Sciences/ Tsukuba Research Center for Interdisciplinary Materials Science (TIMS), University of Tsukuba*)

PP-18 **Synthesis and Complexation of Oligo(bipyridine-phenol) Ligand**
Hiroki Nagumo (*Graduate School of Pure and Applied Sciences, University of Tsukuba*)

PP-19 **Development of Novel Conjugated Polymers Containing Aminoazobenzene Units**
Minoru Kukino (*Tsukuba Research Center for Interdisciplinary Materials Science (TIMS), University of Tsukuba*)

PP-20 **Aerobic oxidation of imidazolines promoted by cyclometalated Ru catalyst**
Ayako Taketoshi (*Tsukuba Research Center for Interdisciplinary Materials Science (TIMS), University of Tsukuba*)

PP-21 **Syntheses of Regioregulated Poly(aminopyridine)s and Investigation by DFT Calculation**
Junpei Kuwabara (*Tsukuba Research Center for Interdisciplinary Materials Science (TIMS), University of Tsukuba*)

PP-22 **Stimuli-responsive PEGylated nanogels for biomedical applications**
Motoi Oishi (*Graduate School of Pure and Applied Sciences, Materials Science, Tsukuba Research Center for Interdisciplinary Materials Science (TIMS), Tsukuba Advanced Research Alliance (TARA), University of Tsukuba*)

PP-23 **Effect of PEAMA-g-PEG on the Heat-induced Inactivation of Enzymes Based on Enzyme/Polymer Complex Formation**
Sumon Ganguli (*Graduate School of Pure and Applied Sciences, Materials Science, University of Tsukuba*)

PP-24 **Synthesis of carbohydrate-oligonucleotides conjugates and application for the oligonucleotide delivery**
Daisuke Kubota (*Graduate School of Pure and Applied Sciences, Materials Science, University of Tsukuba*)

PP-25 **Preparation of core cross-linked micelles composed of PEG-b-PLA copolymer with crosslinkable boron cluster for boron neutron capture therapy**
Shogo Sumitani (*Graduate School of Pure and Applied Sciences, Materials Science, University of Tsukuba*)

PP-26 **Novel Biocompatible Polymer Possessing Stable Nitroxy Radicals as Side Chains -Nitroxy Radical Containing Polymer (NRP) Suppresses an Activation of Blood-**
Yu Yamaguchi (*Graduate School of Pure and Applied Sciences, Materials Science, University of Tsukuba*)

PP-27 **Preparation of Highly PEGylated Nanogel for Long Circulating Drug Carrier**
Satoshi Ichinohe (*Graduate School of Pure and Applied Sciences, University of Tsukuba*)

PP-28 **Suppressive effect of radical containing nanoparticles on cerebral infarction in cerebral ischemia-reperfusion rat model**
Kazuko Toh (*Tsukuba Research Center for Interdisciplinary Materials Science (TIMS), University of Tsukuba*)

PP-29 **Spheroid array of fetal liver cells for regenerative medicine in liver: regulation of liver function by three dimensional co-culture system**
Ryota Kojima (*Graduate School of Pure and Applied Sciences, Materials Science, University of Tsukuba*)

PP-30 **Cellular patterning on an amino-terminated surface by grafting poly(ethylene glycol) via a photocleavable linker**
Shingo Kaneko (*Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS)*)

PP-31 **Preparation of the Au Nano-Particles as the Delivery Carriers of siRNA and their Application**
Shuian-yin Lin (*Chemical Engineering, National Tsing Hua University*)

PP-32 **Mixed micelle systems formed from critical micelle concentration and temperature-sensitive diblock copolymers for cancer therapy**
Shuian-yin Lin (*Chemical Engineering, National Tsing Hua University*)

PP-33 **A Novel Thermo-Sensitive, Biodegradable and Biocompatible Hydrogel as an Intraocular Sustained-Release Carrier for Biologics**
Yung-Sheng Chiang (*Chemical Engineering, National Tsing Hua University*)

PP-34 **Development of new polyion complex micelles for encapsulating and delivering Anti-Fungi Drug**
Yung-Sheng Chiang (*Chemical Engineering, National Tsing Hua University*)

PP-35 **Synthesis and characterization of lipid-microbubbles in ultrasound targeting imaging**
Chung-Hsin Wang (*Biomedical Engineering and Environmental Sciences, National Tsing Hua University*)

PP-36 **High-frequency Ultrasound Targeted Imaging in Small Animals Study**
Jia-Jiun Chen (*Biomedical Engineering and Environmental Sciences, National Tsing Hua University*)

PP-37 **Controllable Polyol Synthesis of Uniform Palladium Icosahedra: Effect of Twinned Structure on Deformation of Crystalline Lattices**
Cuncheng Li (*Graduate School of Pure and Applied Sciences/Chemistry, University of Tsukuba*)

PP-38 **The fabrication of optical electric-field enhancement site with noble metal nanoparticles**
Miharu Eguchi (*Graduate School of Pure and Applied Sciences / Department of Chemistry, University of Tsukuba*)

PP-39 **Control of atomic step flow on Si(111) with immersing in ultra low dissolved oxygen water**
Katsuya Kamata (*Institute of Applied Physics, University of Tsukuba*)

PP-40 **Trap Generation by Hole Injection into Dielectrics MOSFETs**
Chihiro Tamura (*Graduate school of Pure and Applied Science, University of Tsukuba*)

PP-41 **Investigating carrier dynamics around localized gap states by SPPX-STM**
Atsushi Okubo (*Institute of Applied Physics, University of Tsukuba*)

PP-42 **Formation and study of isolated C60 on Cu(111) realized by glycine nanomesh self-assembly**
Hui Huang (*Institute of Applied Physics, University of Tsukuba*)

PP-43 **Local band structure fluctuation in pentacene thin film investigated by scanning tunneling microscopy/spectroscopy**
Noriaki Takeuchi (*Institute of Applied Physics, CREST, University of Tsukuba*)

PP-44 **Suppression of superfluid transition temperature of 3He films in submicron geometry**
Masamichi Saito (*Tsukuba Research Center for Interdisciplinary materials Science (TIMS), University of Tsukuba*)

PP-45 **Manipulation of vortex states in a mesoscopic superconducting square by local current injection**
Shinya Hatsumi (*Institute of Physics, Tsukuba Research Center for Interdisciplinary materials Science (TIMS), University of Tsukuba*)

PP-46 **Influence of surface defects on transitions between mesoscopic vortex states in small superconducting squares**
Yutaka, Kuroda (*Institute of Physics, University of Tsukuba*)

PP-47 **Fabrication of a ballistic graphene unction**
Hikari Tomori (*Institute of Physics, University of Tsukuba*)

PP-48 **Proximity-induced supercurrent in single-layer grapheme**
Hidenori Goto (*Institute of Physics, University of Tsukuba*)

PP-49 **Effect of current annealing on electronic properties of multilayer grapheme**
Sho Tanaka (*Institute of Physics, University of Tsukuba*)

PP-50 **Detection of Supported Lipid Bilayers Using Their Electric Charge**
Chiho Kataoka (*Biomaterials Center, National Institute for Materials Science (NIMS)*)

PP-51 **How little of metallic impurities is little enough so they do not dominate the redox properties of carbon nanotubes?**
Martin Pumera (*National Institute for Materials Science Biomaterial Systems Group, Biomaterials Center and International Center for Materials Nanoarchitectonics (MANA)*)

PP-52 **Ulteafast dynamics of surface plasmon polaritons: Propagations, interferences, and focusing.**
Atsushi Kubo (*Institute of Physics, University of Tsukuba*)

PP-53 **Initial Stage of Film Growth of Octithiophene on Cu(111) Substrate**
Toshiyuki Kakudate (*Materials Science and Engineering, Graduate School of Pure and Applied Sciences, University of Tsukuba*)

PP-54 **Spherical and Urchin-like TiO2 in Various Applications**
Po-Chin Chen (*Materials Science and Engineering, National Tsing Hua University*)

PP-55 **Au Nanocrystal-Directed Growth of Au–Cu2O Core–Shell Heterostructures with Precise Morphological Control**
Chun-Hong Kuo (*Chemistry, National Tsing Hua University*)

PP-56 **Long-Range Ordered Gold Nanostructure Assembly by Solvent Evaporation**
Yeh-Sheng Lin (*Chemistry, National Tsing Hua University*)

PP-57 **Atomic layer growth and applications of aligned TiO2/MWCNT array**
Hsin-Fu Kuo (*Materials Science and Engineering, National Tsing Hua University*)

PP-58 **The technique and applications of carbon nanotubes reinforced PAN nanofiber via electrospinning process**
Hsin-Jung Tsai (*Materials Science and Engineering, National Tsing Hua University*)

PP-59 **Understanding the Mechanism of Silver Nanowires with nitrate ion**
Chien-Lin Kuo (*Chemistry, National Tsing Hua University*)

PP-60 **Low-Cost Optical Microfluidic Systems with Molecularly Imprinted Biosensors for Anesthetic Sensing**
Meng-Hua Chong (Power Mechanical Engineering, *National Tsing Hua University*)

PP-61 **Modification of A Plastic Into A Highly Transparent Superhydrophobic Surface**
Sheng-Yuan Huang (Power Mechanical Engineering, *National Tsing Hua University*)

PP-62 **Plasmonic Properties of One-dimensional Gold Nanoparticle Chains**
Chieh-Lun He (*Physics and Institute of Nanoengineering and Microsystems, National Tsing Hua University*)

PP-63 **Plasmon Hybridization in Individual Gold Nanocrystal Dimers: Direct Observation of Bonding and Antibonding Modes**
Shu-Chun Yang (*Physics and Institute of Nanoengineering and Microsystems, National Tsing Hua University*)