

Monday, September 29

9:00 - 9:15		OPENING	Chair: H. Tanaka
Opening Address		Shojiro NISHIO (Vice President, Osaka Univ.)	
9:15 - 10:40		ORAL SESSION 1	Chair: Y. Yoshida
		<Nano-Fabrication and Nano-Characterization 1>	
9:15	O1-1	J. M. Howe	"Determining the chemistry and behavior of interfaces and phases at the nanoscale using in-situ TEM"
10:00	O1-2	M. Ternes	"Measuring forces and magnetism on individual atoms"
10:40 - 10:55		COFFEE BREAK	
10:55 - 12 15		ORAL SESSION 2	Chair: A. Sakai
		<Nano-Fabrication and Nano-Characterization 2>	
10:55	O2-1	M. Terauchi	"Nano-spectroscopies based on transmission electron microscopy"
11:25	O2-2	S. Matsui	"Three-Dimensional Nanostructure Fabrication by Focused-Ion-Beam Chemical Vapor Deposition"
11:55	O2-3	Y. Sugimoto	"Single atom manipulaiton at room temperature"
12:15 - 13 15		LUNCH	
13:15 - 14 30		POSTER SESSION 1	Chair: K. Sato, T. Kanki
14:30 - 15:50		ORAL SESSION 3	Chair: M. Shiraishi
		< Nano-Electronics 1>	
14:30	O3-1	G. Cuniberti	"Modeling molecular junctions: Pitfalls and caveats in understanding quantum transport mechanisms at the molecular scale"
15:10	O3-2	J. R. Morante	"Nanowires as Nanometrology Platforms and Building Blocks of New Sensing Devices: Present State and Prospects"
15:50 - 16:05		COFFEE BREAK	
16:05 - 17 35		ORAL SESSION 4	Chair: K. Suganuma
		< Nano-Electronics 2>	
16:05	O4-1	T. Endoh	"Impact of Vertical structured devices for Future Nano LSI"
16:35	O4-2	Y. Uraoka	"New Semiconductor Devices Fabricated Using Bio Nano Process"
17:05	O4-3	K. Matsumoto	"Carbon Nanotube Quantum Nanodevice"

Tuesday, September 30

9:15 - 10:45	ORAL SESSION 5	Chair: T. Ogawa
	< Molecular Electronics 1 >	
9:15	O5-1	S.-M. Peng "Molecular Metal Wires and Molecular Switches"
10:00	O5-2	K. Araki "Gold Nanoparticles as Building-Blocks of SERS and Amperometric Interfaces"
10:45 - 11:00	COFFEE BREAK	
11:00 - 12:15	ORAL SESSION 6	Chair: Y. Aso
	< Molecular Electronics 2 >	
11:00	O6-1	N. Atodiresei "Electronic and Magnetic Properties of π -conjugated molecules Adsorbed on Metal Surfaces"
11:25	O6-2	M. Taniguchi "Single Molecule Identification in Metal-Molecule-Metal Junctions"
11:50	O6-3	T. Ono "First-principles study on electron transport properties of molecules"
12:15 - 13:15	LUNCH	
13:15 - 14:30	POSTER SESSION 2	Chair: K. Sato, T. Kanki
14:30 - 16:00	ORAL SESSION 7	Chair: H. Noji
	< Nano-Bio 1 >	
14:30	O7-1	M. Börsch "Monitoring single ion transporters at work: proton-driven rotation in FoF1-ATP synthase and domain swapping in P-type ATPase"
15:05	O7-2	S. Trigueros "DNA conformation and Biomolecular Motors: New Nanomedicine Research Targets"
15:40	O7-3	R. Iino "Single-molecule study on the rotation of FoF1-ATPase"
16:00 - 16:15	COFFEE BREAK	
16:15 - 17:40	ORAL SESSION 8	Chair: K. Namba
	< Nano-Bio 2 >	
16:15	O8-1	N. C. Seeman "Structural DNA Nanotechnology: Using the Secret of Life as a Construction Material"
16:50	O8-2	A. Suyama "Nanodevice gene"
17:20	O8-3	T. Kato "Structural analysis of small DNA nanostructure by electron cryomicroscopy"
18:00 -	BANQUET (Restaurant "MINERVA")	

Wednesday, October 1

9:15 - 10:35	ORAL SESSION 9	Chair: H. Miyasaka
	< Nano-Photonics 1 >	
9:15	O9-1	M. Nakayama "Interactions between coherent optical phonons and excitonic quantum beats in GaAs/AlAs multiple quantum wells: Strategy for generation of intense and monochromatic THz radiation"
9:55	O9-2	A. M. Brouwer "Photoresponsive Rotaxanes: Light-driven motor molecules"
10:35 - 10:55	COFFEE BREAK	
10:55 - 12 15	ORAL SESSION 10	Chair: Y. Fujiwara
	< Nano-Photonics 2 >	
10:55	O10-1	H. Akiyama "Optical spectroscopy of T-shaped quantum-wire lasers and FETs"
11:25	O10-2	S. Masuo "Photon Antibunching Behavior of Single Organic Nanostructures"
11:55	O10-3	K. Asano "Aspects of electron-hole systems: condensation and exciton Mott transition"
12:15 - 13 15	LUNCH	
13:15 - 14:40	ORAL SESSION 11	Chair: H. Tanaka
	< Nano-Spintronics/ Quantum Information 1 >	
13:15	O11-1	M. Jamet "Self-assembled ferromagnetic GeMn nanocolumns in germanium"
14:00	O11-2	H. Asahi "Growth and characterization of transition-metal and rare-earth doped III-nitride based magnetic semiconductors for nano-spintronics"
14:20	O11-3	M. Ogura "First-principles calculation of the spin transport"
14:40 - 14:55	COFFEE BREAK	
14:55 - 16:15	ORAL SESSION 12	Chair: Y. Suzuki
	< Nano-Spintronics/ Quantum Information 2 >	
14:55	O12-1	I. Appelbaum "Spin Transport in Silicon"
15:25	O12-2	S. Tarucha "Micro-magnet technology for manipulating and detecting single spins in quantum dots"
15:55	O12-3	S. Takeuchi "Quantum information processing using photons"
16:15 -	CLOSING	Chair: H. Tanaka
	Closing Remarks	
