

Program (as of Jan. 12, 2012)

Recent changes are marked in red

Jan. 16 (Mon)

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9:00-9:10	Opening Remarks / Satoshi Hamaguchi (Osaka University, Japan)	
9:10-9:35	Kunihide Tachibana (Osaka Electro-Communication University, Japan).....I01 "A Study on the Mechanisms of Discharge Initiation in Water - Spectroscopic and Shadow-Graph Observations -"	
9:35-10:00	M. D. Bowden (The Open University, United Kingdom)I02 "Microdischarges fabricated from polycrystalline diamond"	
10:00-10:25	Cheng-che (Jerry) Hsu (National Taiwan University, Taiwan)I03 "Synthesis of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Nanoparticles Using an Atmospheric Pressure Plasma Jet"	
10:25-10:40	== Break ==	
10:40-11:05	Uwe Czarnetzki (Ruhr University Bochum, Germany)I04 "Evaporation Cooling of Electrons"	
11:05-11:30	Sven Strauss (The University of Tokyo, Japan).....I05 "Cryoplasma; fundamental and applications - the third class of weakly ionized plasmas, in addition to thermal plasma and low-temperature plasmas -"	
11:30-11:45	Hideaki Yamada (Diamond Research Lab., AIST, Japan)..... O01 "Synthesis of single-crystal diamond with large area by using MWPCVD with reactive source gases"	
11:45-12:00	Tomohiro Kubota (Tohoku University, Japan)..... O02 "Prediction of ion sheath shape and ion trajectory during plasma etching processing using on-wafer monitoring technique and simulation"	
12:00-13:30	== Lunch ==	
13:30-13:40	Seng Hong (AOARD)Special Talk "Science without Barrier: A researcher's perspective & Opportunity"	
13:40-14:05	Nigel J. Mason (The Open University, United Kingdom)I06 "The Status of the Database for Plasma Processing"	
14:05-14:30	Jung-Sik Yoon (National Fusion Research Institute, Korea)I07 "Current Activities of Data Center for Plasma Properties : Plasma Chemistry Studies"	
14:30-14:55	Izumi Murakami (National Institute for Fusion Science, Japan).....I08 "NIFS Atomic and Molecular Databases and Data Activities"	
14:55-15:10	Yoshimine Horikawa (Hokkaido University, Japan)..... O03 "Possibility of gas-phase quenching loss of $\text{N}_2(\text{A}^3\Sigma_u^+)$ in inductively-coupled nitrogen plasmas"	
15:10-15:25	Keiichiro Urabe (Kyoto University, Japan)..... O04 "Characteristic features of dielectric barrier discharge in argon gas flow with molecular impurities"	
15:25-15:40	Takehiko Sato (Tohoku University, Japan)..... O05 "Flow formation and chemical species transport in a pin-water surface atmospheric plasma"	
15:40-15:55	== Break ==	
15:55-16:20	Jan van Dijk (Eindhoven University of Technology, The Netherlands).....I09	

16:20-16:45	"Atomic and Molecular Input Data for Plasma Modelling: a user's perspective" Jong-Shinn Wu (National Chiao Tung University, Taiwan).....I10	
16:45-17:10	"Development of Parallel Hybrid Simulation Tools for Modeling Atmospheric-Pressure Gas Discharges " Yeon-Ho Im (Chonbuk National University, Korea).....I11	
17:10-17:35	"3D feature profile simulation of deep contact hole etching in fluorocarbon plasma" Takashi Yagisawa (Keio University, Japan)I12	
	"Simulation of Capacitively Coupled Micro-cell Plasma at Atmospheric Pressure in Ar: Effects of Heat Transfer"	

Jan. 17 (Tue)

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9:00-9:25	Stephen Buckman (Australian National University, Australia).....I13	
	"Electron molecule collisions: Experiments on molecular radicals, and cross sections calculated using the independent atom and BEf scaling methods"	
9:25-9:50	Yoshiharu Nakamura (Tokyo Denki University, Japan).....I14	
	"Electron Swarm Parameters and Electron Collision Cross Sections"	
9:50-10:15	Jonathan Tennyson (University College London, United Kingdom)I15	
	"Calculating electron interactions with radical species"	
10:15-10:40	Makoto Imai (Kyoto University, Japan).....I16	
	"Production and Compilation of Charge Changing Cross Sections for Ion-Atom and Ion-Molecule Collisions"	
10:40-10:55	== Break ==	
10:55-11:20	Masaharu Shiratani (Kyushu University, Japan)I26	
	"Negative and positive feedback of nanoparticle growth in reactive plasmas"	
11:20-11:45	Jiro Matsuo (Kyoto University, Japan).....I18	
	"Residual Surface Damage on Soft Materials with Energetic Particle Bombardment"	
11:45-12:00	Keigo Takeda (Nagoya University, Japan) O06	
	"Surface Loss Probability of Hydrogen Radical on Silicon Thin Film in SiH ₄ /H ₂ Plasma CVD"	
12:00-12:15	Yasuyuki Miyano (Akita University, Japan)..... O07	
	"Development of new bioassay for the antibacterial mechanism of metallic copper using Cu thin coating plates"	
12:15-13:45	== Lunch ==	
13:45-14:10	Shunjiro Shinohara (Tokyo University of Agriculture and Technology, Japan)...I19	
	"Research and Development of High-Density Helicon Plasma Sources and Their Application to Electrodeless Advanced Thrusters"	
14:10-14:35	Hideyuki Usui (Kobe University, Japan)I20	
	"Plasma Particle Simulation toward the Development of Advanced Space Propulsion"	
14:35-15:00	Gon-Ho Kim (Seoul National University, Korea).....I21	
	"Formation of Vapor Coverage by Film Boling as Aqua-plasma Discharge Region of RF Driven Metal Electrode in Saline Solution"	
15:00-15:25	Atsushi Tani (Osaka University, Japan).....I22	
	"Observation of Plasma-Induced Free Radicals in Aqueous Solution"	

15:25-15:50	Kazuo Shimizu (Shizuoka University, Japan)I23 "Remote Microplasma Processing for Bacterial Sterilization and Plasma Medicine"
15:50-16:05	Naoki Shirai (Tokyo Metropolitan University, Japan)..... O08 "Self-organized anode pattern formation observed in atmospheric DC glow discharge using liquid anode"
16:05-16:15	== Break ==
16:15-17:45	== Poster Session ==
18:30-20:30	== Banquet ==

Jan. 18 (Wed)

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9:00-9:25	Toshiaki Makabe (Keio University, Japan)I24 "The Third Opening of Japan, and high-level postgraduate human resource development"
9:25-9:50	Uros Cvelbar (Jozef Stefan Institute, Slovenia).....I25 "Bridging problems for large scale production of nanomaterials with plasmas"
9:50-10:15	Seiji Samukawa (Tohoku University, Japan).....I17 "Numerical study on electron transfer mechanism by collision of ions at graphite surface in highly-efficient neutral beam generation"
10:15-10:40	Vasco Guerra (Universidade Técnica de Lisboa, Portugal).....I27 "Kinetics of the nitrogen pink afterglow in the presence of oxygen impurities"
10:40-10:55	== Break ==
10:55-11:20	Tomoyuki Murakami (Tokyo Institute of Technology, Japan)I28 "Chemical kinetics of radio-frequency driven atmospheric-pressure helium-oxygen plasmas in humid air"
11:20-11:45	Kohki Satoh (Muroran Institute of Technology, Japan).....I29 "The survey of electron swarm parameters and electron collision cross sections in the Institute of Electrical Engineers of Japan"
11:45-12:10	Saša Dujko (University of Belgrade, Serbia).....I30 "Kinetic phenomena and transport data for charged particles in non-equilibrium plasma discharges"
12:10-12:20	== Closing ==
13:30-17:30	== Local tour ==