

Registration 9:00

Plasma Science 5 Multiphase Media <Chair> Daisuke Ogawa (Chubu University)	9:30-10:00 Inited Lecture <07aB011> James W Bradley (University of Liverpool) "Plasma Discharges for the Ambient Processing of Materials"						
	10:00-10:30 Inited Lecture <07aB021> Fumiyoshi Tochikubo (Tokyo Metropolitan University) "Numerical Simulation of Atmospheric-pressure Dc Glow Discharge using Liquid Electrode with Noble Gas Flow"						

Break 10:30-10:45

Plasma Science 5 Multiphase Media <Chair> James W Bradley (University of Liverpool) Fumiyoshi Tochikubo (Tokyo Metropolitan University)	10:45-11:00 1148 <07aB030> Timothy R. Brubaker "Visualization of Advection in Plasma-liquid Interactions: Flow Due to an Impinging Plasma Jet"	Nitride Semiconductors 5 Optical Devices <Chair> T. Kachi (Nagoya University)	10:45-11:15 Inited Lecture <07aE011> Kazuya Yamamura (Osaka University) "Highly Efficient Damage-free Chemical Mechanical Dry Finishing of Wide Gap Semiconductor Substrate by Plasma Assisted Polishing"	Nanomaterials 5 Functional Nanomaterials/Plasma Synthesis and Plasma Treatment <Chair> Y. Suda (Toyoehashi University of Technology)	10:45-11:00 1142 <07aD010> Che-Wei Chang "Sputtering-assisted Growth of ZnO-WO <sub>3</sub> Composite Nanorods and Their Photoactivity and Sensing Performance"	Plasma Applications 5 Agriculture <Chair> T. Ohta (Meijo University)	10:45-11:15 Inited Lecture <07aF011> Juergen F. Kolb (INP Greifswald) "Post-harvest Processing of Crops by Plasma and Pulsed Electric Fields"	
	11:00-11:15 1267 <07aB040> Ryoma Sawata "Electrical Charges on Liquid Droplets Passing through Plasma"		11:15-11:30 1504 <07aE020> Hayata Fukushima "Mesa Depth Dependence of Breakdown Voltage of GaN pn diode"		11:00-11:15 1194 <07aD020> Kun-Cheng Peng "Structure and Piezoelectric Property of ZnO Nanorods Grown by using Hydrothermal Method on Soft Nickel and PET Substrates"		11:15-11:30 1106 <07aD030> Tian Xie "Fabrication and Photoelectrochemical Evaluation of CuO Thin Film Photocathodes Grown by Magnetron Reactive Sputtering"	11:15-11:30 1154 <07aF020> Masakazu Takemoto "Growth-promotion of Purple Photosynthetic Bacteria using Atomic Oxygen Radical Treatment"
	11:15-11:30 1311 <07aB050> Vladimir Kolobov "Simulations of Multi-phase Processes Associated with Explosive Electron Emission in Cathodic Arcs"		11:30-11:45 1110 <07aE030> Hirokuni Tokuda "A Method for Deriving Interface State Density from Sub-threshold Wwing in AlGaIn/GaN MIS-HEMTs"		11:30-11:45 1152 <07aD040> Vladimir Svrcek "Atmospheric-plasma Processing of Environmentally Friendly Silicon and Carbon Quantum Nanostructures Applied for Photovoltaic Devices"		11:30-11:45 1075 <07aF030> Krystal Iris M. de Castro "Water Uptake, Surface Morphology and Germination of White Corn (Zea Mays) Kernels Treated with Atmospheric Air Plasma"	
	11:30-11:45 1349 <07aB060> Remnev Alexey "Geometrical Aspects of Ion Beam and Plasma Based Stripping Processes for Cutting Tools Refurbishing"		11:45-12:00 1247 <07aE040> Noriyuki Taoka "Impacts of Surface Potential Fluctuation and Nature of Interface Traps on Carrier Mobility in an Inversion Layer of GaN MOSFET"		11:45-12:00 1177 <07aD050> Xu Zhao "Low-temperature Plasma Treatment for Releasing Residual Strain and Forming Helical Nanostructures"		11:45-12:00 1079 <07aF040> Koichi Takaki "Influence of Relative Humidity on Ethylene Removal using Dielectric Barrier Discharge"	
	12:00-12:15 1312 <07aB080> Yuji Shimabukuro "A Tuner Integrated Microwave Driven Atomic Cores for Radical Treatment"		12:00-12:15 1071 <07aE050> Niloy Chandra Saha "Interface State Density Measurements of Diamond MOS Structure"		12:00-12:15 1155 <07aD060> Kazunori Koga "Analysis of Coupling of Interaction Fluctuation between Reactive Plasmas and Nanoparticles"			
					12:15-12:30 1121 <07aD070> Hiroaki Nakamura "FDTD Simulation on Absorption of Electromagnetic Waves in Tungsten Photonic-fractals"			

Lunch 12:30-14:00

Topical Session 2 GaIn Plasma Process <Chair> M. Kuzuhara (University of Fukui)	14:00-14:30 Inited Lecture <07pA101> Srabanti Chowdhury (UC Davis) "Vertical GaN Transistors for Power Switching Application"	
	14:30-15:00 Inited Lecture <07pA111> Satecia Keller (University of California) "Growth of N-polar (Al,Ga,In)N Heterostructures for Electronic Device Applications "	
	Break 15:00-15:15	
	15:15-15:45 Inited Lecture <07pA121> Kazuo Nojiri (Lam Research Corp.) "Atomic Layer Etching of GaN and AlGaN using Directional Plasma-enhanced Approach"	
	15:45-16:15 Inited Lecture <07pA131> Heiji Watanabe (Osaka University) "Gate Stack Technology for Advanced GaN-based MOS Devices"	
16:15-16:45 Inited Lecture <07pA141> Romualdo Alejandro Ferreyra (Kyoto Institute of Technology) "Non-alloy Ohmic Contacts based on Ge-doped GaN Regrown by PicoSecond Pulsed Laser Deposition"		