

3/6 (SUN)

9:00-11:00
Hall of fame
Award ceremony

9:20-9:50
Hall of fame
 M. J. Kushner
 (EST 19:20-19:40)

9:50-10:20
Hall of fame
 David B Graves
 (EST 19:40-20:00)

10:20-10:50
Hall of fame
 Kunihide Tachibana

Closing remarks

11:00-11:20 Break

11:20-12:20
 <06aA04T>
Tutorial
Plasma Science and Technologies
 Chair: Fumiyoshi Tochikubo (Tokyo Metropolitan University)
 Toshiaki Makabe
 Keio University
 "Introduction to Modeling of Low-Temperature Rf-Plasmas Interacting with Surface: -Exploration for Hidden and Indiscernible Processes-"

12:20-13:20 Break

13:20-14:20
 <06pA05T>
Tutorial
Nanomaterials
 Chair: Seiichi Miyazaki (Nagoya University)
 Noritaka Usami
 Nagoya University
 "Impact of Plasma Treatment on Heterostructures for Silicon-Based Solar Cells"

14:20-14:40 Break

14:40-15:40
 <06pA06T>
Tutorial
Nitride Semiconductors
 Chair: Yoshihiro Kangawa (Kyushu University)
 Kazuyuki Tadatomu
 Yamaguchi University
 "Development of Patterned Sapphire Substrate and Application to Crystal Growth of Nonpolar and Semipolar GaN"

15:40-16:00 Break

16:00-17:00

<06pA07T>

Tutorial

Bio Applications

Chair: Shinya Kumagai (Meijo University)

Koichi Takaki

Iwate University

"Design of Pulsed Power Generator and its Applications for Agriculture and Food Processing"

17:00-18:00 Break

18:00-19:00

Plasma prize

Chair: Noriyasu Ohno (Nagoya University)

Yasushi Nanishi (Ritsumeikan University)

3/7 (MON)

9:10-9:30

Opening & Plasma prize ceremony

Chair: Noriyasu Ohno (Nagoya University)

9:30-10:30

<07aA01P>

Plenary Lecture

Chair: Noriyasu Ohno (Nagoya University)

Hiroshi Amano

Nagoya University

"Frontier Electronics as "Painkillers" of Our Society and Environment"

10:30-10:50 Break

10:50-11:30

<07aA02K>

Keynote Lecture

Chair: Osamu Nakatsuka (Nagoya University)

Hitoshi Tabata

The University of Tokyo

"Nano Structural Controlled Functional Oxide Thin Films Learning from Bio-Systems"

11:30-12:00 Break

Plasma Science and Technologies 1Chair: Tsuyohito Ito
(The University of Tokyo)
Room B**Nitride Semiconductors 1**Chair: Tetsuya Takeuchi
(Meijo University)
Room C**Nanomaterials 1**Chair: Hiroyuki Kousaka
(Gifu University)
Room D**Plasma Science & Technologies 2**Chair: Kazunori Koga
(Kyushu University)
Room E

12:00-12:30

<07pB03I>

Invited LectureKentarō Tomita
Hokkaido University
"Observation of Two-Dimensional Plasma Flows toward Higher Temperature Regions in Laser Produced Tin Plasmas for Extreme Ultraviolet (EUV) Light Sources"

12:00-12:30

<07pC03I>

Invited LectureJared Kearns
Sony
"Mode Control of Long-Cavity Blue and Green VCSELs"

12:00-12:30

<07pD03I>

Invited LectureKazuyoshi Ueno
Shibaura Institute of Technology
"Advances in Graphene Processes for Metallization and High Frequency Devices"

12:00-12:20 1133

<07pE03O>

Hiroki Kondo
Nagoya University
"Three-Dimensional Morphological Analysis of Carbon Nanowalls"
¹Hiroki Kondo, ¹Atsushi Ozaki, ¹Takayoshi Tsutsumi, ¹Kenji Ishikawa, ¹Makoto Sekine, ¹Masaru Hori, ²Uros Cvelbar and ³Mineo Hiramatsu
¹Nagoya University
²Jozef Stefan Institute
³Meijo University

			12:20-12:40 1016 <07pE04O> Yen-Sheng Lin I-Shou University "Inserting Intermittent Time in the Ultra-Thin GZO Layer Process to Improve its Optical and Electrical Properties" Chia-Hsien Teng and Yen-Sheng Lin I-Shou University
12:30-13:00 <07pB04I> Invited Lecture Ryo Yasuhara National Institute for Fusion Science "The Fast Thomson Scattering Measurement for High-Temperature Helical Plasma in LHD"	12:30-13:00 <07pC04I> Invited Lecture Jung Han Yale University "Porous GaN and its Applications"	12:30-13:00 <07pD04I> Invited Lecture Junho Choi The University of Tokyo "Development of Amorphous Carbon Film Based Highly Durable Triboelectric Nanogenerator"	12:40-13:00 1068 <07pE05O> Yoshikazu Terai Kyushu Institute of Technology "Growth of AlN Thin Films by Pressure Gradient Sputtering Method" ¹ Haraguchi Kengo, ¹ Ichinose Ryo, ² Ohta Hiroki, ² Yonezawa Ken and ¹ Terai Yoshikazu ¹ Kyushu Institute of Technology ² Kenix Corporation
13:00-13:20 1084 <07pB05O> Yasuaki Haba Nihon University "Experimental Study on Focusing of a Negative Ion Beam Aimed at Fusion Plasma Heating" ¹ Yasuaki Haba, ¹ Mitsutoshi Aramaki, ^{2,3} Katsuyoshi Tsumori, ^{2,3} Haruhisa Nakano, ^{2,3} Masaki Osakabe, ² Katsunori Ikeda, ⁴ Taiga Hamajima and ^{2,4} Kenichi Nagaoka ¹ Nihon University ² National Institute for Fusion Science ³ SOKENDAI (The Graduate University for Advanced Studies) ⁴ Nagoya University	13:00-13:30 <07pC05I> Invited Lecture Ryuji Katayama Osaka University "Deep UV Emission from Nitride-Based Wavelength Converter"	13:00-13:20 1120 <07pD05O> Shintaro Iba Nagoya University "Effect of RF Stage-Bias on Morphology of Carbon Nanowalls Grown by a Radical-Injection Plasma-Enhanced Chemical Vapor Deposition" ¹ Shintaro Iba, ¹ Hiroki Kondo, ¹ Kenji Ishikawa, ¹ Takayoshi Tsutsumi, ¹ Makoto Sekine, ² Mineo Hiramatsu and ¹ Masaru Hori ¹ Nagoya University ² Meijo University	13:00-13:20 1180 <07pE06O> Dennis Christy Nagoya University "Spectroscopy of H ₂ /CH ₄ /N ₂ Plasma for Carbon Nanowalls Growth" Dennis Christy, Ngo Van Nong, Osamu Oda, Masaru Hori and Nikolay Britun Nagoya University

		13:20-13:40 1128 <07pD06O> Swapnil Ghodke Nagoya University "Nanomechanical Properties of Maze-Like Carbon Nanowalls Structure by Nanoindentation Technique" Swapnil Ghodke, Motoyuki Murashima, Dennis Christy, Ngo Van Nong, Osamu Oda, Noritsugu Umehara, Kenji Ishikawa and Masaru Hori Nagoya University	
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13:30-15:00 Break

Keynote Lecture

Chair: Yasunori Tanaka (Kanazawa University)
Room A

15:00-15:40

<07pA07K>

Keynote Lecture

Anthony B. Murphy
Materials Science and Engineering, CSIRO
"Thermal Plasmas for Metal 3D Printing"

15:40-16:00 Break

Plasma Science and Technologies 3 Chair: Hiroki Kondo (Nagoya University) Room B	Plasma Science and Technologies 4 Chair: Ryo Yasuhara (National Institute for Fusion Science) Room C	Nitride Semiconductors 2 Chair: Makoto Miyoshi (Nagoya Institute of Technology) Room D	Room E
16:00-16:20 1154 <07pB08O> Hitoshi Muneoka The University of Tokyo "Generation of Dielectric Barrier Discharges Using Carbon Nanotube Sheets as Electrodes in High-Density Fluids Including Supercritical Fluids and Liquids" ¹ Hitoshi Muneoka, ² Riichiro Ohta, ^{1,3} Sven Stauss and ¹ Kazuo Terashima ¹ The University of Tokyo ² Toyota Central R&D Labs., Inc. ³ Tohoku University	16:00-16:20 1034 <07pC08O> Ikumi Hamaguchi Nagoya University "Plasma Density Increase of Electron Cyclotron Resonance Plasma by High Voltage Pulse Power Application" ¹ Ikumi Hamaguchi, ¹ Hansin Bae, ² Kensuke Sasai, ^{1,2} Haruka Suzuki and ^{1,2,3} Hirotaka Toyoda ¹ Nagoya University, Department of Electronics ² Nagoya University, Center for Low-temperature Plasma Sciences ³ National Institute for Fusion Science	16:00-16:30 <07pD08I> Invited Lecture Subramaniam Arulkumaran Nanyang Technological University "High Breakdown Vertical GaN-on-GaN Schottky Diodes for α -Particle Detection"	

16:20-16:40 1134 <07pB09O> Ma. Shanlene D.C. Dela Vega Nagoya University "In-Liquid Plasma Coating of Graphite Films on Metal Surface Immersed in Ethanol" ¹Ma. Shanlene Dela Vega, ²Hiroki Kondo, ²Takayoshi Tsutsumi, ²Thi-Thuy-Nga Nguyen, ²Kenji Ishikawa, ²Makoto Sekine, ³Magdaleno Jr. Vasquez and ²Masaru Hori ¹Nagoya University ²Center for Low-temperature Plasma Sciences, Nagoya University ³University of the Philippines-Diliman	16:20-16:40 1035 <07pC09O> Yuki Iwata Nagoya University "O Radical Measurement of Ar/O₂ Microwave Plasma in Atmospheric Pressure" ¹Yuki Iwata, ¹Tomohiro Ogasawara, ^{1,2}Haruka Suzuki and ^{1,2,3}Hiroataka Toyoda ¹Department of Electronics, Nagoya University ²Center for Low-temperature Plasma Sciences, Nagoya University ³National Institute for Fusion Science	
16:40-17:00 1150 <07pB10O> Fumiyoshi Tochikubo Tokyo Metropolitan University "Behavior of Droplets in Low Temperature DBD in Atmospheric-Pressure Helium" Keisuke Nakagawa, Yusuke Nakagawa and Fumiyoshi Tochikubo Tokyo Metropolitan University	16:40-17:00 1132 <07pC10O> Kam-Hong Chau Feng Chia University "Observation of Bi-Maxwellian Distribution in HIPIMS Plasma Using a Langmuir Probe" ^{1,2}Kam-Hong Chau, ^{1,3}Yoshinobu Kawai, ²Chi-Wai Kan, ¹Jia-Lin Syu, ¹Yen-Chun Liu, ¹Ying-Hung Chen, ¹Chen-Jui Liang and ¹Ju-Liang He ¹Feng Chia University ²The Hong Kong Polytechnic University ³Kyushu University	16:30-17:00 <07pC09I> Invited Lecture Kazuki Ohnishi Nagoya University "Halide Vapor Phase Epitaxy of P-Type GaN for Vertical GaN Power Devices"
17:00-17:20 1168 <07pB11O> Naohiro Shimizu Nagoya University "Rebound Tailing Pulse Method Applied to Water Electrolysis" ¹Naohiro Shimizu, ¹Ranjit Borude, ¹Reiko Tanaka, ¹Kenji Ishikawa, ¹Osamu Oda, ²Hiroki Hosoe, ²Satoshi Ino, ²Yousuke Inoue and ¹Masaru Hori ¹Nagoya University ²Honda Research and Development Company Ltd.	17:00-17:20 1069 <07pC11O> Bibhuti Bhusan Sahu Indian Institute of Technology (IIT) Delhi "Simple External Filter and Tuning for Operation in Dual Radio Frequency Plasmas Using Compensated Langmuir Probe" ^{1,2}B. B. Sahu, ¹M. Sekine, ¹T. Tsutsumi, ¹K. Ishikawa, ¹H. Shogo, ¹H. Tanaka, ¹N. Ohno and ¹M. Hori ¹Nagoya University ²Department of Energy Science and Engineering	17:00-17:20 1183 <07pD10O> Soichiro Kawata Toyota Technological Institute "High Breakdown Voltage of p-GaN/AlGaN/GaN Diode with Controlled Mg Acceptor Charges" ¹Soichiro Kawata, ¹Satoshi Fukutani, ^{1,2}Yuwei Zhang and ^{1,2}Naotaka Iwata ¹Toyota Technological Institute ²Research Center for Smart Energy Technology

17:20-17:40 Break

Plasma Science and Technologies 5 Chair: Masaharu Shiratani (Kyushu University) Room B	Room C	Room D	Room E
17:40-18:10 <07pB12l> Invited Lecture Min-Suk Cha King Abdullah University of Science and Technology (KAUST) "Low Temperature Plasma- Chemical Kinetic Study for Hydrogen"			
18:10-18:40 <07pB13l> Invited Lecture Achim von Keudell Ruhr University Bochum "Nanosecond Plasmas in Liquids – Dynamic Plasmas at GPa Pressures"			
18:40-19:00 Break			
19:00-20:00 Short Presentation (Poster) 1			

3/8 (TUE)			
Plasma Science and Technologies 6 Chair: Makoto Sekine (Nagoya University) Room B	Nitride Semiconductors 3 Chair: Manato Deki (Nagoya University) Room C	Nanomaterials 2 Chair: Katsunori Makihara (Nagoya University) Room D	Bio Applications 1 Chair: Hirofumi Kurita (Toyohashi University of Technology) Hiroshi Hashizume (Nagoya University) Room E
9:00-9:30 <08aB01I> Invited Lecture Tomohiro Nozaki Tokyo Institute of Technology "Diagnostics of Plasma-Catalyst Interfacial Reaction by in Situ IR Spectroscopy"		9:00-9:30 <08aD01I> Invited Lecture Hiroyuki Miyazoe IBM Corporation "Future of Computing and Plasma Processings"	9:00-9:30 <08aE01I> Invited Lecture Masafumi Ito Meijo University "Biological Applications Using Neutral Radicals Generated from Atmospheric-Pressure Plasma"
9:30-10:00 <08aB02I> Invited Lecture Koichi Sasaki Hokkaido University "Contribution of Vibrational Excited States of Molecular Nitrogen to Synthesis of Ammonia in Low-Pressure N ₂ /H ₂ Plasmas with Low Electron Temperatures"	9:30-10:00 <08aC02I> Invited Lecture Masachika Toguchi Hokkaido University "Fabrication of Recessed-Gate AlGaIn/GaN HEMTs by Low-Damage Contactless Photo-Electrochemical Etching"	9:30-10:00 <08aD02I> Invited Lecture Daisuke Takeuchi National Institute of Advanced Industrial Science and Technology (AIST) "Diamond Pin Diode-Type Electron Emitters for Power Switches"	9:30-10:00 <08aE02I> Invited Lecture Katsuyuki Takahashi Iwate University "Agricultural Applications of High Voltage Pulses and Atmospheric Discharges"

10:00-10:30 <08aB03I> Invited Lecture Keisuke Takashima Tohoku University "Generation of Vibrationally Excited Nitrogen in a Non-Self-Sustaining DC Discharge toward Plasma Nitrogen Fixation"	10:00-10:20 1058 <08aC03O> Yuichi Wada Ritsumeikan University "Microstructural Characterization of Nitride Semiconductor Films Grown on ScAlMgO₄ Substrate by RF-MBE" ¹Yuichi Wada, ¹Yuya Kuroda, ¹Seiya Kayamoto, ¹Naoki Goto, ^{1,2}Takashi Fuji, ¹Shinichiro Mouri, ²Yuji Shiraishi, ²Tsuguo Fukuda and ¹Tsutomu Araki ¹Ritsumeikan University ²Fukuda Crystal Laboratory Co., Ltd.. 10:20-10:40 1061 <08aC04O> Yasuyuki Kobayashi Hirosaki University "Plasma-Assisted MBE Grown h-BN Thin Films on Glass Substrates" ¹Naoki Hatakeyama, ¹Takashi Azuhata, ¹Hideki Nakazawa, ¹Hiroshi Okamoto, ²Masanobu Hiroki, ²Kazuhide Kumakura and ¹Yasuyuki Kobayashi ¹Hirosaki University ²NTT Basic Research Laboratories	10:00-10:20 1090 <08aD03O> Shigeru Yamada Gifu University "Evaluation of Optical Absorption in Si/SiO₂ Superlattice by Fourier Transform Photocurrent Spectroscopy" Shigeru Yamada, Yuki Nishi, Takumi Nakagawa, Yuto Ebata, Nur Syazwana Abd Rahman and Takashi Itoh Gifu University	10:00-10:30 <08aE03I> Invited Lecture Attri Pankaj Kyushu University "Green Route for the Production of Nitrogen Fertilizer: A Step towards Decentralization of Fertilizer Production"
10:30-11:00 Break			
Plasma Science and Technologies 7 Chair: Koichi Sasaki (Hokkaido University) Room B 11:00-11:30 <08aB04I> Invited Lecture Tetsuya Haruyama Kyushu Institute of Technology "Production of Compounds and Radical Species at the Interface between Plasma and Water: Plasma / Liquid (P/L) Interfacial Reaction"	Nitride Semiconductors 4 Chair: Naotaka Iwata (Toyota Technological Institute) Room C 11:00-11:30 <08aC05I> Invited Lecture Biplab Sarkar Indian Institute of Technology, Roorkee, Uttarakhand "Small Signal Model for High Frequency Analysis of AlGaIn/GaN MOS-HEMTs "	Nanomaterials 3 Chair: Makoto Kambara (The University of Tokyo) Room D 11:00-11:30 <08aD04I> Invited Lecture Tomoyuki Murakami Seikei University "Graph-Theoretical Analysis of Chemical Network Activated by Low-Temperature Plasma"	Bio Applications 2 Chair: Hajime Sakakita(AIST) Shinji Yoshimura (National Institute for Fusion Science) Room E 11:00-11:30 <08aE04I> Invited Lecture Yun-Chien Cheng National Yang Ming Chiao Tung University "Atmospheric-pressure Plasma Effects on Cancer Cells and RONS Generation for Medical Applications"

11:30-12:00 <08aB05I> Invited Lecture Moon Soo Bak Sungkyunkwan University "Characterization and Application of Atmospheric Pressure Microwave Plasma for CO₂ Conversion"	11:30-11:50 1051 <08aC06O> Masahiro Uchida University of Fukui "Two-Dimensional Characterization on Schottky Contacts on AlGaIn/GaN HEMTs by Scanning Internal Photoemission Microscopy" ^{1,2}Masahiro Uchida, ¹Yuto Kawasumi, ¹Hiroki Imabayashi and ¹Kenji Shiojima ¹University of Fukui ²NTT Advanced Technology Corp.	11:30-12:00 <08aD05I> Invited Lecture Yasunori Tanaka Kanazawa University "Numerical Simulation on Decaying Arc Plasmas in Polyatomic Molecular Gas Flow for Fundamental Study on Interrupting Electric Current"	11:30-12:00 <08aE05I> Invited Lecture Kiyoshi Hirahara Chiba University "The Pathophysiology of Chronic Airway Inflammation"
12:00-12:30 1037 <08pB06O> Nikolay Britun Nagoya University "Time-Resolved Dynamics of a Ns- Atmospheric Jet Discharge" ¹Nikolay Britun, ¹Peterraj Dennis Christy, ²Vladislav Gamaleev and ¹Masaru Hori ¹Nagoya University ²Air Liquide Laboratories	11:50-12:10 1179 <08aC07O> Yuto Yasui University of Fukui "Characterization of Peripheries of n-GaN Schottky Contacts Using Scanning Internal Photoemission Microscopy" ¹Yuto Yasui, ²Fumimasa Horikiri, ²Yosinobu Narita, ²Noboru Fukuhara, ³Tomoyoshi Mishima, ¹Hiroki Imabayashi and ¹Kenji Shiojima ¹University of Fukui ²Sciocs Company Limited ³Hosei University 12:10-12:30 1189 <08pC08O> Ryuji Kamiya Toyota Technological Institute "Conduction Change of Mg and Si Co-Doped GaN Layer by ArF Laser Irradiation" ¹Ryuji Kamiya, ¹Yukari Yonetani, ¹Yuwei Zhang, ¹Itaru Kamiya, ²Noriko Kurose, ³Yoshinobu Aoyagi and ¹Naotaka Iwata ¹Toyota Technological Institute ²National Center of Neurology and Psychiatry ³Ritsumeikan University	12:00-12:30 <08pD06I> Invited Lecture Manabu Tanaka Kyushu University "Development of Diode-Rectified AC Arc System for High-Throughput Process"	12:00-12:30 <08pE06I> Invited Lecture Akira Yamashita National Institutes of Natural Sciences "Molecular Genetic Approach for Understanding Cellular Responses against Plasma Irradiation"
12:30-13:30 Break			

13:30-14:30 Short Presentation (Poster) 2			
14:30-16:00 Break			
Plasma Science and Technologies 8 Chair: Fumiyoshi Tochikubo (Tokyo Metropolitan University) Room B	Nitride Semiconductors 5 Chair: Koh Matsumoto (Nagoya University) Room C	Nanomaterials 4 Chair: Mineo Hiramatsu (Meijo University) Room D	Room E
16:00-16:20 1118 <08pB07O> Takeru Koike The University of Tokyo "Highly Sensitive Electric Field Measurement via Electric-Field-Induced Coherent Anti-Stokes Raman Scattering in Visible Region" Takeru Koike, Hitoshi Muneoka, Kazuo Terashima and Tsuyohito Ito The University of Tokyo	16:00-16:30 <08pC09I> Invited Lecture Hiroshi Fujioka The University of Tokyo "Characteristics and Applications of GaN Films Prepared by Low Temperature Plasma Process"	16:00-16:30 <08pD07I> Invited Lecture Feng Liang Kunming University of Science and Technology "Preparation of Nanomaterials as Electrocatalysts by DC Arc Discharge"	
16:20-16:50 <08pB08I> Invited Lecture Sander Nijdam Eindhoven University of Technology "Streamer Inception and Imaging in Various Atmospheres"			
	16:30-17:00 <08pC10I> Invited Lecture Henryk Turski Institute of High Pressure Physics of the Polish Academy of Science "Buried Tunnel Junction for Inverted Current Flow in III-Nitride Structures"	16:30-16:50 1048 <08pD08O> Hiroaki Nakamura National Institute for Fusion Science "MD Simulation on Fabrication of Chiral Nanoneedle by Optical Vortex" ^{1,2} Hiroaki Nakamura and ² Shu Habu ¹ National Institute for Fusion Science ² Nagoya University	

		16:50-17:10 1117 <08pD09O> Wenbo Wang The University of Tokyo "Industrialized Preparation of SiGe Nanocomposite Powders by Plasma Spray Physical Vapor Deposition for Lithium-Ion Batteries" ¹ Wenbo Wang, ¹ Ryoshi Ohta, ² Masashi Dougakiuchi and ¹ Makoto Kambara ¹ The University of Tokyo ² Shimane Institute for Industrial Technology	
	Nitride Semiconductors 5 Chair: Daichi Imai (Meijo University) Room C		Bio Applications 3 Chair: Hiromasa Tanaka (Nagoya University) Hajime Sakakita (AIST) Room E
	17:00-17:30 <08pC11I> Invited Lecture Satoshi Kamiyama Meijo University "Crystal Growth and Fabrication of GaN-Based Multi-Quantum Shell (MQS)/ Nanowire Lasers"		17:10-17:40 <08pE07I> Invited Lecture Kiyotaka Sasagawa Nara Institute of Science and Technology "Implantable Fluorescent Imaging Device with Hybrid Filters"
17:20-17:40 Break			
Plasma Science and Technologies 9 Chair: Sander Nijdam (Eindhoven University of Technology) Room B	17:30-17:50 1003 <08pC12O> Pradip Dalapati Nagoya Institute of Technology "Effect of Growth Temperature on the Epilayer Quality and the Electro-Optical Performances of GaInN/GaN Multi-Quantum-Well UV Photodetectors"	Nanomaterials 5 Chair: Makoto Kambara (The University of Tokyo) Room D	
17:40-18:10 <08pB10I> Invited Lecture Jan Lancok Institute of Physics CAS "Pulsed Lased Deposition of Copper Halides Thin Films: Effect of Plasma Parameters on Optical and Electrical Properties"	Pradip Dalapati, Kosuke Yamamoto, Takashi Egawa and Makoto Miyoshi Nagoya Institute of Technology	17:40-18:10 <08pD10I> Invited Lecture Hari Babu Nadendla Brunel University London "Nano Materials for Advanced Light-Weight Alloy Metals for Next Generation Automobiles"	17:40-18:10 <08pE08I> Invited Lecture Sander Bekeschus INP Greifswald "Medical Gas Plasma Technology – the Now and the Future"

	17:50-18:10 1190 <08pC13O> Amalraj Frank Wilson Nagoya University "Homoepitaxial Growth of GaN Using a p-BN Tube Attached Radical Enhanced MOCVD (REMOCVD)" Frank Wilson Amalraj, Dhasiyan Arun Kumar, Naohiro Shimizu, Osamu Oda, Kenji Ishikawa and Masaru Hori Nagoya University	
	18:10-18:30 1038 <08pD11O> Laika Jayne Montefalcon University of the Philippines-Diliman "Fabrication of Ag-Decorated-TiO₂ Nanofibers for the Photocatalytic Degradation of Methylene Blue under Simulated Solar Light Irradiation" Laika Jayne Montefalcon, Mary Raphael Ramoy, Aranxta Danielle Montallana and Magdaleno Vasquez Jr. University of the Philippines-Diliman	18:10-18:30 1099 <08pE09O> Jun-Seok Oh Osaka City University "Visualization of Plasma Affected Area on a 3D Printed Mouse Model" ¹Shunya Hashimoto, ¹Yuta Matsumoto, ¹Jun-Seok Oh, ¹Tatsuru Shirafuji, ²Kenji Ishikawa and ²Masaru Hori ¹Osaka City University ²Nagoya University
		18:30-18:50 2008 <08pE10O> Mime Kobayashi Osaka Medical and Pharmaceutical University "Non-Thermal Atmospheric Pressure Plasma Potentiates Mesodermal Differentiation of Human iPS Cells" ¹Mime Kobayashi, ^{1,2}Kiichiro Tomoda, ³Tetsuji Shimizu, ¹Michio Asahi and ⁴Shinya Kumagai ¹Osaka Medical and Pharmaceutical University ²Gladstone Institute of Cardiovascular Disease ³National Institute of Advanced Industrial Science and Technology (AIST) ⁴Meijo University
18:40-19:00 Break		
19:00-20:00 Short Presentation (Poster) 3		

3/9 (WED)			
Plasma Science & Technologies 10 Chair: Tatsuya Shirafuji (Osaka City University) Room B	Nitride Semiconductors 6 Chair: Tsutomu Araki (Ritsumeikan University) Room C	Nanomaterials 6 Chair: Shigeya Naritsuka (Meijo University) Room D	Bio Applications 4 Chair: Minoru Sasaki (Toyota Technological Institute) Shinji Yoshimura (National Institute for Fusion Science) Room E
		9:00-9:30 <09aD01I> Invited Lecture Hiroki Hibino Kwansei Gakuin University "Controlled Growth of Heterostructures of Graphene and Hexagonal Boron Nitride"	9:00-9:30 <09aE01I> Invited Lecture Tetsuji Shimizu National Institute of Advanced Industrial Science and Technology (AIST) "Flows Induced by Low-Temperature Atmospheric Pressure Plasmas"
9:30-10:00 <09aB01I> Invited Lecture R. Mohan Sankaran University of Illinois Urbana-Champaign "The Dynamic Plasma-Based Electrochemical Interface for the Synthesis of Chemicals and Materials"	9:30-10:00 <09aC01I> Invited Lecture Masako Kodera (USA) Moses Lake Industries, Inc. "Impact of Plasma-Damaged-Layer Removal and Atomic-Sized Defect Visualization on GaN Hemt Devices"	9:30-10:00 <09aD02I> Invited Lecture Hiroki Ago Kyushu University "2.5-Dimensional Materials Science: Controlled Growth, Integration, and Applications of Graphene and h-BN"	9:30-10:00 <09aE02I> Invited Lecture Toshiya Sakata The University of Tokyo "Bioelectrical Interfaces for in Vitro Diagnostics"

10:00-10:30 <09aB02I> Invited Lecture Takahiro Ishizaki Shibaura Institute of Technology "Solution Plasma Synthesis of Carbon-Based Electrocatalysts for Cathode Materials of Li-Air Battery"	10:00-10:20 1115 <09aC02O> Taisei Nagai Nagoya University "Effects of Cl Passivation on Al₂O₃/GaN Interface Properties" Taisei Nagai, Noriyuki Taoka, Akio Ohta, Katsunori Makihara and Seiichi Miyazaki Nagoya University	10:00-10:30 <09aD03I> Invited Lecture Yuhei Miyauchi Kyoto University "Exciton Properties in One- and Two-Dimensional Semiconducting Nanomaterials and their Applications"	10:00-10:20 1041 <09aE03O> Rui-Zhe Zhang National Chiao Tung University "Effects of Short-Lived and Long-Lived Reactive Oxygen and Nitrogen Species Produced by Non-Thermal Atmospheric-Pressure Plasma on Protein" Rui-Zhe Zhang and Yun-Chien Cheng National Chiao Tung University
10:30-11:00 <09aB03I> Invited Lecture David B Go University of Notre Dame "Plasma-Liquid Interactions during Plasma Electrolysis: Understanding Fundamental Behavior"			

10:30-11:00 Break			
Plasma Science and Technologies 11 Chair: Keisuke Takashima (Tohoku University) Room B	Plasma Science and Technologies 12 Chair: Masanaga Fukazawa (Sony Semiconductor Solutions Corporation) Room C	Nanomaterials 7 Chair: Toshiaki Kato (Tohoku University) Room D	Bio Applications 5 Chair: Shinya Kumagai (Meijyo University) Hiroshi Hashizume (Nagoya University) Room E
	11:00-11:20 1030 <09aC03O> Thi-Thuy-Nga Nguyen Nagoya University "Atomic Layer Etching of Metal Compounds with Selective Removal of their Carbides over Nitrides Using a Floating Wire-Assisted Liquid Vapor Plasma Method" ¹ Thi-Thuy-Nga Nguyen, ² Kazunori Shinoda, ² Hiroataka Hamamura, ³ Kenji Maeda, ³ Kenetsu Yokogawa, ³ Masaru Izawa, ¹ Kenji Ishikawa and ¹ Masaru Hori ¹ Nagoya University ² Hitachi, Japan ³ Hitachi High-Tech, Japan	11:00-11:30 <09aD04I> Invited Lecture Takeaki Yajima Kyushu University "Next-Generation Switching Devices Based on Metal-Insulator Transitions"	11:00-11:20 2005 <09aE04O> Tomoyuki Murakami Seikei University "Modelling of Cell-Death Induction in Response to Plasma-Induced Reactive Species" Tomoyuki Murakami Seikei University
11:20-11:40 1173 <09aB04O> Naomichi Ezumi University of Tsukuba "Observation of Nitrogen Assisted/Associated Recombination in Divertor Relevant Hydrogen Plasma of GAMMA 10/PDX" ¹ Naomichi Ezumi, ¹ Hiroki Gamo, ¹ Tsukasa Sugiyama, ¹ Ayane Kondo, ¹ Naoki Shigematsu, ¹ Takumi Seto, ¹ Takuma Okamoto, ¹ Kousuke Takanashi, ¹ Satoshi Takahashi, ¹ Satoshi Togo, ¹ Mafumi Hirata, ¹ Junko Kohagura, ¹ Masayuki Yoshikawa, ¹ Yosuke Nakashima, ¹ Mizuki Sakamoto and ² S. Masuzaki ¹ University of Tsukuba ² National Institute for Fusion Science	11:20-11:40 1152 <09aC04O> Shohei Nakamura Screen Holdings Co., Ltd. "Low Damage Atomic Layer Etching of GaN at High Temperature" ^{1,2} Shohei Nakamura, ¹ Atsushi Tanide, ¹ Takahiro Kimura, ¹ Soichi Nadahara, ² Kenji Ishikawa, ² Osamu Oda and ² Masaru Hori ¹ Screen Holdings Co., Ltd. ² Nagoya University		11:20-11:40 1169 <09aE05O> Guan-Ying Tasi National Taiwan University of Science and Technology "Preparation of Functional Collagen Fibril Microislands by Photolithography and Contact Printing For Induction of Stem Cell Differentiation" ¹ Guan-Ying Tasi, ¹ Meng-Jiy Wang and ² Szu-Yuan Chen ¹ National Taiwan University of Science and Technology ² Institute of Atomic and Molecular Sciences Academia Sinica

11:40-12:00 1166 <09aB05O> Chunyuan Zhan Tokyo Institute of Technology "Plasma-enhanced Catalytic Activity in CO ₂ Methanation over Ru(La-Ni)/Al ₂ O ₃ " ¹ Chunyuan Zhan, ¹ Shuya Xu, ² Hyun-Ha Kim and ¹ Tomohiro Nozaki ¹ Tokyo Institute of Technology ² National Institute of Advanced Industrial Science and Technology (AIST)	11:40-12:00 1185 <09aC05O> Keita Ichikawa Nagoya University "Angular Distribution of High-Energy Ar Ion and Neutral in a 13.56 MHz Capacitively-Coupled Plasma" ¹ Keita Ichikawa, ^{1,2} Haruka Suzuki and ^{1,2,3} Hiroataka Toyoda ¹ Nagoya University ² Center for Low-temperature Plasma Sciences ³ National Institute for Fusion Science	11:40-12:00 1149 <09aE06O> Daiki Ito Nagoya University "Evaluation of Selective Anti-Cancer Effect in Plasma-Activated Ringer's Lactate Solution Produced by Regulated Surrounding Atmosphere" Daiki Ito, Naoyuki Iwata, Kenji Ishikawa, Hiroshi Hashizume, Kae Nakamura, Camelia Miron, Hiromasa Tanaka, Hiroaki kajiyama, Shinya Toyokuni, Masaaki Mizuno and Masaru Hori Nagoya University
	12:00-12:20 1138 <09pC06O> Taito Yoshie Nagoya University "Feature Profiles in Cyclic Etch Using C ₄ F ₈ and SF ₆ Gas-Modulated Plasma " ¹ Taito Yoshie, ² Takayoshi Tsutsumi, ² Kenji Ishikawa, ² Hiroki Kondo, ² Makoto Sekine and ² Masaru Hori ¹ Nagoya University ² Center for Low-temperature Plasma Sciences, Nagoya University	12:00-12:30 <09pD05I> Invited Lecture Dang Feng Shandong University "Cathode Catalytic Capability of Two-Dimensional Materials with Stacking-Layered Crystal Structure in Li-O ₂ Batteries"
12:20-12:40 1093 <09pB07O> DAE-YEONG KIM Tokyo Institute of Technology "Mechanism Study on Plasma-Activated CO ₂ Hydrogenation over Pd ₂ Ga/SiO ₂ " ^{1,3} Dae-Yeong Kim, ² Shinya Furukawa and ¹ Tomohiro Nozaki ¹ Tokyo Institute of Technology ² Hokkaido University ³ JSPS Research Fellowship (DC2)	12:20-12:40 1094 <09pC07O> Shih-Nan Hsiao Nagoya University "Manipulation of Etch Selectivity of Silicon Nitride over Silicon Dioxide by Controlling Substrate Temperature with a CF ₄ /H ₂ Plasma" Shih-Nan Hsiao, Nicolay Britun, Thi-Thuy-Nga Nguyen, Takayoshi Tsutsumi, Kenji Ishikawa, Makoto Sekine and Masaru Hori Nagoya University	

12:40-13:00 1039 <09pB08O> Xiaozhong Chen Tokyo Institute of Technology "Fluidized-Bed DBD Reactor for Kinetic Study of Reverse Water Gas Shift Reaction" ¹ Xiaozhong Chen, ² Shinya Furukawa and ¹ Tomohiro Nozaki ¹ Tokyo Institute of Technology ² Hokkaido University			
12:30-13:30 Break			
Plasma Science and Technologies 13 Chair: Tomohiro Nozaki (Tokyo Institute of Technology) Room B	Room C	Nanomaterials 8 Chair: Hideki Sato (Mie University) Room D	Bio Applications 5 Chair: Shinya Kumagai (Meijo University) Minoru Sasaki (Toyota Technological Institute) Room E
13:30-14:00 <09pB09I> Invited Lecture Wei-Hung Chiang National Taiwan University of Science and Technology "Microplasma Engineering of Functional Nanomaterials: Synthesis and Applications "		13:30-13:50 1176 <09pD06O> Shiyu Zhang Nagoya University "Formation of Non- Equilibrium Ge _{1-x} Sn _x /Si _x Ge _{1-x} _y Sn _y Double-Quantum Wells and its Photoluminescence Property" Shiyu Zhang, Shigehisa Shibayama, and Osamu Nakatsuka Nagoya University	13:30-13:50 1095 <09pE07O> Hiroshi Hashizume Nagoya University "Quality-Increasing Effect of Plasma Treatment in a Paddy on Various Rice Cultivars" ¹ Hiroshi Hashizume, ¹ Hidemi Kitano, ¹ Hiroko Mizuno, ¹ Akiko Abe, ¹ Kaoru Sanda, ² Genki Yuasa, ² Satoe Tohno, ¹ Hiromasa Tanaka, ¹ Kenji Ishikawa, ¹ Shogo Matsumoto, ¹ Hitoshi Sakakibara, ² Susumu Nikawa, ¹ Masayoshi Maeshima, ¹ Masaaki Mizuno and ¹ Masaru Hori ¹ Nagoya University ² Fujitsu Client Computing Limited

		13:50-14:10 1110 <09pD07O> Masayuki Tokitani National Institute for Fusion Science "Advanced Multi-Step Brazing (AMSB) for Fabrication of the New Type W/ODS-Cu Plasma Facing Components" ¹ Masayuki Tokitani, ² Toyo Yamashita, ¹ Yukinori Hamaji, ³ Yutaka Hiraoka, ¹ Hiroyuki Hoto, ¹ Suguru Masuzaki, ⁴ Tatsuya Tsuneyoshi, ⁴ Yoshiyuki Tsuji, ¹ Takeo Muroga, ⁵ Shun Shimabukuro, ⁵ Naoaki Yoshida, ⁵ Hiroshi Idei, ⁵ Kaori Kono, ⁵ Makoto Oya, ⁵ Takumi Onchi and ⁵ Ryuya Ikezoe ¹ National Institute for Fusion Science ² The Graduate University for Advanced Studies, SOKENDAI ³ Okayama University of Science ⁴ Nagoya University ⁵ Kyushu University	13:50-14:10 1111 <09pE08O> Yang Liu Nagoya University "Genotoxic Effects of Plasma Activated Ringer's Lactate Solution on Cancer Cells." ¹ Yang Liu, ² Yoshimichi Nakatsu, ¹ Hiromasa Tanaka, ² Kazunori Koga, ¹ Kenji Ishikawa, ² Masaharu Shiratani and ¹ Masaru Hori ¹ Nagoya University ² Kyushu University
14:00-14:30 <09pB10I> Invited Lecture Mohan Jacob James Cook University "Applications of Graphene Synthesised by Microwave Plasma"		14:10-14:30 1012 <09pD08O> Yazid Yaakob Nagoya Institute of Technology "Structural and Electrical Properties of Silicon-Carbon Nanocomposites for Potential Anode Materials in Lithium-Ion Batteries" ^{1,2} Yazid Yaakob, ¹ Mohd Saufi Rosmi, ¹ Subash Sharma, ¹ Wei Ming Lin and ¹ Masaki Tanemura ¹ Nagoya Institute of Technology ² Universiti Putra Malaysia	14:10-14:30 1053 <09pE09O> Hayate Tanaka Kyushu University "Effects of Concentration of Plasma Activated Lactate on Germination of Arabidopsis thaliana Seeds" ¹ Hayate Tanaka, ¹ Takamasa Okumura, ¹ Pankaj Attri, ¹ Teruki Anan, ¹ Kunihiro Kamataki, ¹ Naho Itagaki, ¹ Masaharu Shiratani, ¹ Yushi Ishibashi, ² Masataka Nakao, ² Kentaro Namiki, ² Shoko Tsuboyama, ² Kenji Hashimoto, ² Kazuyuki Kuchitsu, ³ Hiroshi Hashizume, ³ Kenji Ishikawa, ³ Masaru Hori, and ^{1,4} Kazunori Koga ¹ Kyushu University ² Tokyo University of Science ³ Nagoya University ⁴ National Institutes of Natural Science

14:30-15:00 Break

Keynote Lecture

Chair: Masaru Hori (Nagoya University)
Room A

15:00-15:40

<09pA11K>

Keynote Lecture

Takanori Ichiki

The University of Tokyo

"Novel Diagnostic and Therapeutic Approaches Using Exosomes and Nanobiodevices"

15:40-16:00 Break

Plasma Science and Technologies 14 Chair: Mohan Jacob (James Cook University) Room B	Plasma Science and Technologies 15 Chair: Nozomi Takeuchi (Tokyo Institute of Technology) Room C	Nanomaterials 9 Chair: Jun Tatebayashi (Osaka University) Room D	Room E
16:00-16:20 1023 <09pB12O> Yasunori Tanaka Kanazawa University "Experimental and Numerical Approaches to Polycrystalline Diamond Film Deposition Using Time-Series Exposure of Modulated/Non-Modulated Induction Thermal Plasmas" Yasunori Tanaka, Kazufumi Hata, Naoki Kano, Yusuke Nakano and Tatsuo Ishijima Kanazawa University	16:00-16:20 1096 <09pC12O> Shigeyuki Takagi Tokyo University of Technology "Optimization of RF Frequency in Dual-Frequency Capacitively Coupled Plasma Equipment Using Coupled Calculation of Plasma Simulation and Genetic Algorithm (GA)" ¹ Shigeyuki Takagi, ¹ Tatsuhiro Nakaegawa and ² Makoto Sekine ¹ Tokyo University of Technology ² Nagoya University	16:00-16:30 <09pD12I> Invited Lecture Katsuhiro Tomioka Hokkaido University "Integration of III-V Nanowires on Si and their Device Applications"	
16:20-16:40 1143 <09pB13O> Kazunori Koga Kyushu University "Deposition of Carbon Nanoparticles of 5 nm in Size on Positively Biased Substrates Using Multi-Hollow Discharge Plasma CVD Method" ^{1,2} Kazunori Koga, ¹ Sung Hwa Hwang, ¹ Shinjiro Ono, ¹ Daichi Yoshikawa, ¹ Takamasa Okumura, ¹ Kunihiro Kamataki, ¹ Naoto Yamashita, ¹ Naho Itagaki and ¹ Masaharu Shiratani ¹ Kyushu University ² National Institutes of Natural Sciences	16:20-16:40 1100 <09pC13O> Tatsuhiro Shirafuji Osaka City University "Numerical Simulation of Surface-Launched Plasma Bullets" Tatsuhiro Shirafuji and Jun-Seok Oh Osaka City University	16:30-17:00 <09pD13I> Invited Lecture Tuyoshi Hasegawa Waseda University "Application of the Atomic Switch Technology to Neuromorphic Computing"	
16:40-17:00 1145 <09pB14O> Jumpei Kurokawa Nagoya University "Correlation Analysis between Radicals in Gas Phase and Etch Resistance of Hydrogenated Amorphous Carbon Film" ¹ Jumpei Kurokawa, ^{2,3} Tadashi Mitsunari, ² Takayoshi Tsutsumi, ² Hiroki Kondo, ² Makoto Sekine, ² Kenji Ishikawa and ² Masaru Hori ¹ Nagoya University ² Center for Low-temperature Plasma Sciences ³ Tokyo Electron Technology Solutions Limited	16:40-17:00 1139 <09pC14O> Dogyun Hwangbo University of Tsukuba "Motion Analysis of Arc Spots on Tungsten Fuzz by Means of Self-Avoiding Random Walk Model" ¹ Dogyun Hwangbo, ² Daisuke Nishijima, ³ Shin Kajita and ³ Noriyasu Ohno ¹ University of Tsukuba ² University of California, San Diego ³ Nagoya University		

17:00-17:20 1121 <09pB15O> Ching-Lien Hsiao Linköping University/Thin Film Physics Division "Mechanism on Growth Rate Increase of Magnetron Sputtering GaN Using Positive Substrate Bias" ¹ Ching-Lien Hsiao, ¹ Yi-Ling Lo, ¹ Jui-Che Chang, ² Daniel Lundin, ³ Igor Zhirkov, ¹ Aditya Pradaswara, ¹ Per Sandström, ³ Johanna Rosén, ¹ Lars Hultman and ¹ Jens Birch ¹ Linköping University/Thin Film Physics Division ² Linköping University/Plasma and Coatings Physics Division ³ Linköping University/Materials Design Division	17:00-17:20 1085 <09pC15O> Haolun Li Kyoto Institute of Technology "Reactive Molecular Dynamics Simulations on Intramolecular and Intermolecular Structural Changes of Damaged Polyethylene Chains" ¹ Haolun Li, ¹ Susumu Fujiwara, ^{2,3} Hiroaki Nakamura, ¹ Tomoko Mizuguchi, ⁴ Ayako Nakata, ⁴ Tsuyoshi Miyazaki, ⁵ Shinji Saito and ¹ Wataru Sakai ¹ Kyoto Institute of Technology ² National Institute for Fusion Science ³ Nagoya University ⁴ National Institute for Materials Science ⁵ Institute for Molecular Science	17:00-17:20 1074 <09pD14O> Yoshitsune Ito Nagoya University "Formation of Calcium Disilicide Films on Si(111) Using Molecular Beam Epitaxy" Yoshitsune Ito, Osamu Nakatsuka and Masashi Kurosawa Nagoya University
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17:20-17:40 Break

Plasma Science and Technologies 16 Chair: Giichiro Uchida (Meijo University) Room B	Room C	Nanomaterials 10 Chair: Takashi Itoh (Gifu University) Room D	Bio Applications 7 Chair: Hiromasa Tanaka (Nagoya University) Hirofumi Kurita (Toyohashi University of Technology) Room E
17:40-18:10 <09pB16I> Invited Lecture Dingxin Liu Xi'an Jiaotong University "Production of High Valence RNS by Cold Atmospheric Plasma and their Biomedical Effects"		17:40-18:10 <09pD15I> Invited Lecture Takashi Kita Kobe University "Control of Quantum-Dot Growth for Novel Solar Cells"	17:40-18:10 <09pE12I> Invited Lecture Cristina Canal Universitat Politècnica de Catalunya (UPC) "Plasma-Conditioned Liquids in Bone Cancer Therapy"

18:10-18:40 <09pB17I> Invited Lecture Timo Gans Dublin City University "Experimental and Computational Approaches in Controlling Plasma Chemical Kinetics: Validation, Synergy and Limitations"	18:10-18:40 <09pD16I> Invited Lecture Hirofumi Tanaka Kyushu Institute of Technology "In-Materio Computing Devices Consisted of Random Network Nanoparticles for Autonomous Robot Operation Systems"	18:10-18:30 1151 <09pE13O> Camelia Miron Nagoya University "Physicochemical Investigation of Plasma Activated Lactate Solutions" ¹Camelia Miron, ¹Nikolay Britun, ¹Hiroki Kondo, ²Kae Nakamura, ¹Hiroshi Hashizume, ¹Hiromasa Tanaka, ¹Kenji Ishikawa and ¹Masaru Hori ¹Nagoya University ²Nagoya University Graduate School of Medicine, Department of Obstetrics and Gynecology
		18:30-18:50 1109 <09pE14O> Chih-Tung Liu Department of Mechanical Engineering, National Yang Ming Chiao Tung University "Chronic Wound Healing on Type-1 Diabetes of Rat Models Using a Nitrogen and Argon Atmospheric-Pressure Plasma Jet" ¹Tien-Yang Chou-Huang, ^{2,3}Yu-Pin Cheng, ¹Chih-Chia Lee, ¹Chih-Tung Liu, ¹Kuang-Yao Cheng, ¹Mu-Chien Wu, ¹Chun-Ping Hsiao, ¹Shih-Sen Huang and ¹Jong-Shinn Wu ¹Department of Mechanical Engineering, National Yang Ming Chiao Tung University ²Department of Biological Science and Technology, National Yang Ming Chiao Tung University ³Department of Dermatology, Cathay General Hospital
18:40-19:00 Break		
19:00-20:00 Short Presentation (Poster) 4		

3/10 (THU)

Invited Lecture

Chair: Makoto Kambara (The University of Tokyo)

Kenji Ishikawa (Nagoya University)

Room A

9:00-9:30

<10aA01l>

Invited Lecture

Yuki K. Wakabayashi

NTT Basic Research Laboratories

"Machine-Learning-Assisted Molecular Beam Epitaxy for Growth of High-Quality Magnetic Oxides"

9:30-10:00

<10aA02l>

Invited Lecture

Takeshi Ohmori

Hitachi, Ltd.

"Applying Machine Learning Methods to Etching Process Development"

10:00-10:30

<10aA03l>

Invited Lecture

Daisuke Nishijima

University of California, San Diego

"Application of Hyperspectral Imaging and Machine Learning to Low Temperature Plasma Research"

10:30-11:00 Break

11:00-11:30

<10aA04l>

Invited Lecture

Satoshi Hamaguchi

Osaka University

"Machine-Learning Based Analyses of Plasma Processing"

11:30-12:00

<10aA05l>

Invited Lecture

Hae June Lee

Pusan National University

"Combined Simulation of Micro and Nanoparticles in RF Inductively Coupled Plasma Torch"

12:00-12:30 Break

12:30-13:00

<10pA06l>

Invited Lecture

Satoru Kawaguchi

Seikei University

"Application of Machine Learning to Solving Boltzmann Equation for Electron Velocity Distribution Function in Weakly Ionized Plasma"

13:00-13:30 Panel Discussion

13:30-15:00 Break

Invited Lecture

Chair: Yoshihiro Kangawa (Kyushu University)

Kenji Ishikawa (Nagoya University)

Room A

15:00-15:30

<10pA08l>

Invited Lecture

Masafumi Jinno

Ehime University

"Plasma Mediated Spontaneous Cell Membrane Permeation and its Applications: Endocytosis and Random Genome Integration-Free"

15:30-16:00

<10pA09l>

Invited Lecture

Ryo Tanaka

FUJI ELECTRIC CO., LTD.

"Recent Development and Future Prospects of Vertical GaN Power Devices"

16:00-16:30

<10pA10l>

Invited Lecture

Kengo Nagata

Nagoya University and Toyoda Gosei Co., Ltd.

"Development of High-Efficiency Algan Tunnel Junction Deep-UV Leds"

16:30-17:00 Break

Keynote Lecture

Chair: Yoshihiro Kangawa (Kyushu University)

Room A

17:00-17:40

<10pA11K>

Keynote Lecture

Tim Wernicke

Technische Universität Berlin, GERMANY

"Growth, Fabrication and Analysis of Algan-Based Deep UV LEDs"

17:40-18:00 Break

18:00-18:30 Award Ceremony and Closing