Monday, May 19

CHAIR: Katsuhisa Kitano [2:00p.m. - 3:45p.m.]

Poster No.	Presenting Author (Affiliation, Country)	Title of Paper
01. medical treatment with discharge plasmas		
19-P01-01	Vandana Miller (AJ Drexel Plasma Institute, Drexel University, USA)	Plasma-Tissue Interactions
19-P01-02	Adam M. Hirst (University of York, UK)	Mapping the Effects of Low Temperature Plasma Treatment of Prostate Cancer Cell Lines and Primary Cells: Along the Path to Cell Death
19-P01-03	Takamichi Hirata (Tokyo City University, Japan)	Healing Burns Using Atmospheric Pressure Plasma Irradiation
19-P01-04	Genu Takahashi (Tokyo City University, Japan)	Relationship of Nitric Oxide Concentration in the Blood Pressure Lowering in Rats Following Atmospheric Pressure Plasma Inhalation
19-P01-05	Dehui Xu (Xi'an Jiaotong University, China)	OH radical as a major factor for cell adhesion by cold atmospheric plasma
19-P01-06	Keisuke Hirasawa (Cambwick Healthcare KK, Japan)	Possible Clinical Application of Electron Discharge at Extremly Low Energy Level for Suppression of Oxidative Stress
19-P01-07	Sung Kil Kang (Pohang University of Science and Technology, Republic of Korea)	Compact microwave atmospheric plasma devices for biomedical applications
19-P01-08	Augusto Stancampiano (alma Mater Studiorum - University of Bologna, Italy)	A novel plasma based teeth whitening process
19-P01-09	Satoshi Kaiho (Tokyo city university, Japan)	Diagnostic Imaging of Plasma-Treated Rat Hypoxic Ischemic Encephalopathy Model Using X-ray CT
02. biological reactions to gas plasmas or plasma-treated media/surfaces		
19-P02-01	Franck Clément (Pau University, France)	Analyses of Reactive Oxygen and Nitrogen Species induced by atmospheric pressure guided streamers in a physiological liquid medium
19-P02-02	Shunsuke Yoshizawa (University of Tsukuba, Japan)	Molecular Mechanism of Plasma-Induced Chemical Reaction on Protein and Amino Acid in Aqueous solution
19-P02-03	Carly E. Anderson (University of California Berkeley, USA)	Interaction of Ambient Air Corona Discharges with Aqueous Solutions and Simple Biomolecules
19-P02-05	Kathrin Duske (University Medical Center Rostock, Germany)	A comparative in vitro study of different non-thermal atmospheric pressure plasma-jets concerning cell adhesion capacity on rough titanium alloys

Monday, May 19
[2:00p.m. - 3:45p.m.]

Poster No.	Presenting Author (Affiliation, Country)	Title of Paper
19-P02-06	Hirofumi Kurita (Toyohashi University of Technology, Japan)	Estimation of Radical Intensity and Apoptosis Induction Activity of Aqueous Media using Single-Molecule DNA Measurement
19-P02-07	Kodai Sakuramoto (Kochi University of Technology, Japan)	UV absorption of water induced by APPJ irradiation
19-P02-08	Angela Privat-Maldonado (University of York, UK)	Determining the effect of plasma on bacterial DNA at the single cell level
19-P02-09	Jean-Philippe Sarrette (Toulouse University / CNRS, France)	Degradation of fatty acids by nitrogen flowing afterglows at reduced pressure
19-P02-10	Elena V. Sysolyatina (Gamaleya Research Institute of Epidemiology and Microbiology, Russia)	Bactericidal and wound healing properties of the air plasma generated by the ferroelectric generator
19-P02-11	Malte U. Hammer (ZIK plasmatis @INP Greifswald, Germany)	Influence of plasma-treated liquids on structure and function of lipid membranes
19-P02-12	Abraham Lin (Drexel Plasma Institute, USA)	Stimulation of Intracellular Reactive Oxygen Species in Uniform and Non-Uniform Regimes of Nanosecond Pulsed Dielectric Barrier Discharge Treatment
19-P02-13	Gai Ohashi (University of Tsukuba, Japan)	Degeneration of amyloid-β fibrils in aqueous solution by low-temperature atmospheric-pressure plasma
19-P02-14	Satoshi Ikawa (University of Tsukuba, Japan)	Evaluation of oxidative stress inside cell membrane by the penetration of HOO radical with the reduced pH method for plasma disinfection
19-P02-15	Julia van der Linde (Greifswald University, Germany)	Analysis of intraperitoneal application of TTP on murine small bowel
19-P02-16	Caitlin Heslin (Dublin Institute of Technology, Ireland)	Efficacy and Safety Considerations for the Use of Atmospheric Cold Plasma in Wound Treatment
19-P02-17	Hiroshi Hashizume (Meijo University, Japan)	Proliferation mechanism of budding yeast cells with oxygen radical treatment
03. plasma-based sterilization/decontamination		
19-P03-01	Bulteau Anne-Laure (Pau University - UMR CNRS, France)	Oxydative stress responses induced by atmospheric pressure guided streamers on bacteria *Escherichia coli*
19-P03-02	Zdenko Machala (University of California, Berkeley and Comenius University, USA, Slovakia)	Frugal Air Spark-like Plasma for Antimicrobial NO_x Generation

Poster No.	Presenting Author (Affiliation, Country)	Title of Paper
19-P03-03	Toshihiro Takamatsu (Tokyo Institute of Technology, Japan)	Investigation of biological effect and toxin degradation using temperature controllable multi-gas plasma jet
19-P03-04	Nid'a H. Alshraiedeh (Queen's University Belfast, UK)	Atmospheric Pressure, Non-Thermal Plasma for Control of *P. aeruginosa* Biofilms: Effect of Biofilm Components on Phenotypic Resistance
19-P03-05	Joanna Abigael Daseco (University of the Philippines, Philippines)	Comparative Study on the Use of Different Metal Electrodes in Low Pressure Glow Discharge Plasma Sterilization
19-P03-06	Zuzana Kovaľová (Supelec, France)	Decontamination of the inner walls of a narrow tube at atmospheric pressure using long distance propagation discharge in argon
19-P03-07	Takaya Oshita (Tokyo Institute of Technology, Japan)	Influence Investigation of Gas Temperature on Inactivation of Oral Bacteria using Temperature-controllable Plasma Jet
19-P03-09	Guanyang Tang (Tohoku University, Japan)	Water Sterilization by a Nano-second-pulsed Plasma Discharge in Gas Bubbles
19-P03-10	Yosuke Watanabe (Tokyo Institute of Technology, Japan)	Effect of gas species on plasma-bubbling sterilization
19-P03-11	Xiaoli Yang (Shizuoka University, Japan)	Roles of Oxygen and Nitrogen Atoms N_2/O_2 Plasma on Inactivation of Spore-forming Microorganisms
19-P03-12	Eva Dolezalova (Institute of Plasma Physics AS CR, Czech Republic)	Detection of membrane damages in *Escherichia coli* after plasma treatment
19-P03-13	Karol Hensel (Comenius University, Slovakia)	Inactivation of bacteria and cells by DC transient spark discharge
19-P03-14	Kun Qien (Gunma University, Japan)	Enhancement of the Sterilization Efficiency of Argon Plasma Jet by Addition of O_2 and H_2O_2
19-P03-15	Hiroto Matsuura (Osaka Prefecture University, Japan)	The Effect of Active Radical Production on the Plasma Degradation of Phorbol Esters in Bio-diesel Fuel industry
19-P03-16	Joey Kim T. Soriano (University of the Philippines, Philippines)	Mold sterilization of contaminated oil-on-canvas paintings via microwave atmospheric plasma pencil (MAPP)
19-P03-17	Siti Khadijah binti Za'aba (UNIVERSITI MALAYSIA PERLIS, Malaysia)	Inactivation Acinetobacter Bacteria by Atmospheric Plasma
04. agricultural applications of plasma technologies		
19-P04-01	Takaaki Amano (Kyushu University, Japan)	Preservation of Growth Enhancement of Plants after Atmospheric Pressure DBD Plasma Irradiation

Monday, May 19
[2:00p.m. - 3:45p.m.]

Poster No.	Presenting Author (Affiliation, Country)	Title of Paper
19-P04-02	Thapanut Sarinont (Kyushu University, Japan)	Effects of ambient gas species for plasma irradiation to seeds on plant growth promotion
19-P04-03	Kohei Takano (Iwate University, Japan)	Improvement of Growth Rate of Plants using Bubble Discharge in Water
19-P04-04	Taesoo Kim (Kwangwoon University, Republic of Korea)	Effects of Dielectric Barrier Discharge (DBD) Plasma on Seed Germination and Plant Growth
06. plasma-based surface modification for medical/biological applications		
19-P06-01	Maria Letizia Focarete (alma Mater Studiorum - University of Bologna, Italy)	Atmospheric pressure non-equilibrium plasma for the production of composite materials
19-P06-02	Andreas Heilmann (Fraunhofer Institute for Mechanics of Materials IWM, Halle (Saale), Germany)	Aerosol-Assisted Atmospheric Pressure Dielectric Barrier Discharges on Polymer Surfaces for anti-microbial properties
19-P06-03	Andrey Choukourov (Charles University in Prague, Faculty of Mathematics and Physics, Czech Republic)	Direct covalent coupling of biomolecules to nanostructured plasma polymers
19-P06-04	Yoshihiro Akimoto (Kyorin University School of Medicine, Japan)	Molecular Morphological Analysis of the Effect of Low Temperature Plasma on the Wound Healing of Skin
19-P06-05	So-Hyoun Jeon (Sungkyunkwan University, Republic of Korea)	Flow manipulation in thread-based microfluidics by plasma treatment of wool with various gas
19-P06-06	Mei-Chen Liu (Ming Chi University of Techinology, Taiwan)	Surface-Modification Techniques of Thin Film Transistors and Capacitances by Plasma Deposition SnO_xC_y for Improve Electric Conductivity of Biomedical Applications
19-P06-07	Kullachard Ozawa (The Petroluem and Petrochemical college Chulalongkorn University, Thailand)	Preparation of Nylon/Chitin Membranes by Solution Casting and DBD Plasma Treatment for Wound Care Application
19-P06-08	Kentaro Hayashida (Organization for Innovation and Social Collaboration, Shizuoka University, Japan)	Observation of Skin Changes by Atmospheric Plasma Jet Irradiation
19-P06-09	Chia-Ti Chang (Tatung University, Taiwan)	Micro-arc Oxidation Titanium and Post Treatment by Cold Plasma and Graft Polymer for Improving Biocompatibility
19-P06-10	Anna Liguori (Alma Mater Studiorum - University of Bologna, Italy)	Atmospheric pressure plasma patterning of biocompatible substrates: comparison of localized treatment effectiveness with different plasma sources

Poster No.	Presenting Author (Affiliation, Country)	Title of Paper
19-P06-11	Paolo Baldissara (Alma Mater Studiorum - University of Bologna, Italy)	Plasma as a new odontoiatric tool to improve implants adhesion
07. biochemical/biomolecular engineering with plasmas		
19-P07-01	Naresh Kumar (Kwangwoon University, Republic of Korea)	Influence of deuterium oxide generated through non thermal D_2O plasma jet on biomolecule
19-P07-02	Yohei Ikeda (Ehime University, Japan)	Minimization and Localization of Cell Damage under Microplasma Irradiation for Gene Transfection
19-P07-03	Seiryu Shibakawa (Ehime University, Japan)	Evaluation of DNA Damage Irradiated by Plasmas for Gene Transfection
19-P07-04	Chihiro Tsutsui (Tokyo City University, Japan)	Cell Activation using Micro-Spot Atmospheric Pressure Plasma Derived FGF-2/VEGF
19-P07-05	Masaru Yoshioka (Ehime University, Japan)	Plasma Gene Transfection with Surface Discharge
08. fundamentals of atmospheric-pressure plasmas		
19-P08-01	Young J. Hong (Kwangwoon university, Republic of Korea)	Measurement of electron temperature and 1s excited atom density by using collisional radiative model in nonthermal atmospheric Ar plasma jet
19-P08-02	Kanako Sekimoto (Yokohama City University, Japan)	Mass spectrometric analysis of negative ion formation in atmospheric pressure corona discharges with point-to-plane electrodes
19-P08-03	Marguerite Dang Van Sung Mussard (LPP, Ecole Polytechnique, France)	Experimental study of a discharge propagating in a dielectric capillary - Interaction of a plasma jet with a surface
19-P08-04	Youbin Seol (Korea Advanced Institute of Science and Technology, Republic of Korea)	Study on the radical production in atmospheric pressure pulsed DBD plasma jets
19-P08-05	Hikaru Nozaki (Nagaoka University of Technology, Japan)	Study on Coloring Effect for Metal Surface using Atmospheric Pressure Plasmas
19-P08-06	Sandra Richter (Fraunhofer Institute for Mechanics of Materials IWM, Halle, Germany)	Correlations of in-line analytical investigations of atmospheric pressure plasma processes with surface analysis
19-P08-07	Camille Faith P. Romero (Doshisha University, Japan)	Development of ECR Microwave Antenna for the production of streaming atmospheric-pressure plasma

Monday, May 19
[2:00p.m. - 3:45p.m.]

Poster No.	Presenting Author (Affiliation, Country)	Title of Paper
19-P08-08	Yubin Xian (Huazhong University of Science and Technology, China)	He Plasma Plumes in Different Surrounding Gases
19-P08-09	Giichiro Uchida (Osaka University, Japan)	Characteristics of Reactive Particle Production in Atmospheric Pressure DBD Plasma Jet
09. plasma-surface interactions relevant for medical/biological applications		
19-P09-01	Jan Benedikt (Ruhr-University Bochum, Germany)	Atmospheric pressure plasma jet for separated and combined treatment with plasma generated reactive species and photons
19-P09-02	Dai Itsuki (Osaka University, Japan)	Modification of hydroxyapatite and polystyrene surface for cell culture by low-pressure plasmas
19-P09-03	Yoshiyuki Suda (Toyohashi University of Technology, Japan)	Defect formation of lipid bilayer membrane by dielectric barrier discharge irradiation and comparison with chemical treatment
19-P09-04	Kosuke Takenaka (Osaka University, Japan)	Interactions of Atmospheric Pressure Non-equilibrium-Plasma with Organic Materials through Gas/Liquid Interface
19-P09-05	Naoyuki Kurake (Nagoya University, Japan)	Electron Spin Resonance Study of Plasma-Activated-Medium
19-P09-06	Yui Hayashi (Nagoya University, Japan)	Reaction of Amino Acid and Protein in Water Induced by Electric Discharge at Argon / Aqueous Solution Interface
19-P09-07	Hiromasa Yamada (Tsukuba University, Japan)	Characteristic measurements of a plasma flare of medical equipment using a low temperature plasma
10. plasma sources for medical/biological applications		
19-P10-01	Anser Ali (Kwangwoon University, Republic of Korea)	Role of non-thermal dielectric barrier discharge (DBD) plasma for wound healing application
19-P10-02	Andreas Helmke (Fraunhofer Institute for Surface Engineering and Thin Films, Germany)	Ozone concentrations in the plasma volume and the surrounding of a plasmamedical dielectric barrier discharge source operated in ambient air
19-P10-03	Mohammed Yousfi (CNRS, Toulouse University, France)	Tuning of low temperature plasmas ejected in open air for biomedical applications from diagnostic and modeling tools
19-P10-04	Chae bok Lee (Department of Plasma Bioscience and Display , Republic of Korea)	Visualization of OH radical interactions in living cells by adding D_2O in non-thermal plasma jet
19-P10-05	Suk Hwal Ma (Ajou university, Republic of Korea)	An atmospheric-pressure cold plasma jet device with a multi-microchannel structure

Poster No.	Presenting Author (Affiliation, Country)	Title of Paper
19-P10-06	Yasumasa Okazaki (Nagoya University, Graduate School of Medicine, Department of Pathology and Biological Responses, Japan)	Non-equilibrium atmospheric pressure plasma (NEAPP) generates oxidative injury
19-P10-07	Henryka Stryczewska (Lublin University of Technology, Poland)	Power Supply in Non-Thermal Plasma Generators for Biological Applications
19-P10-08	Victor N. Vasilets (Institute for Energy Problems of Chemical Physics, RAS, Russia)	Therapeutic effects of gases formed in hot air plasmas and medical applications of graphene-based polymer materials.
19-P10-09	Max Engelhardt (Ruhr-University Bochum, Germany)	Characterization of propagating ionization waves in atmospheric plasma discharges
19-P10-10	Jaeho Kim (National Institute of Advanced Industrial Science and Technology (AIST), Japan)	Discharge characteristics of an atmospheric pressure cold plasma jet for medical applications
19-P10-11	Yota Sasaki (Tokyo Institute of Technology University, Japan)	Investigation of Singlet Oxygen ($^1O_2$) and OH radical in Bacterial Sterilization
19-P10-12	Thibault Darny (GREMI UMR7344 CNRS/ University of Orleans, France)	Selective reactive species production in a μs helium plasma gun discharge
19-P10-13	Hea Min Joh (Dong-A University, Republic of Korea)	The study of atmospheric pressure plasma to induce p53-mediated apoptosis through ROS generation in human lung cancer cells
19-P10-14	Xiaoqian Cheng (The George Washington University, USA)	The Effect of Differing Cold Plasma Composition on Glioblastoma Cell Viability
11. plasma and/or liquid diagnostics and sensors		
19-P11-01	Shusuke Nishiyama (Hokkaido University, Japan)	LIF Imaging of Sodium Atoms in Atmospheric-Pressure Miniature Gas Flow DC Glow Discharge in Contact with Sodium Chloride Solution
19-P11-02	Xuekai Pei (Huazhong University of Science & Technology, China)	Measurement of OH radicals in RT-APPJ using laser-induced fluorescence
19-P11-03	Kentaro Tomita (Kyushu University, Japan)	Thomson Scattering Measurements of Atmospheric Plasmas Contacting with Ionic Liquids
19-P11-04	Tatsuo Ishijima (Kanazawa University, Japan)	Investigation of Chemical Species Production Rates in Aqueous Solution Irradiated by Non-equilibrium Atmospheric Pressure Jet

Monday, May 19
[2:00p.m. - 3:45p.m.]

Poster No.	Presenting Author (Affiliation, Country)	Title of Paper
19-P11-05	Takayuki Ohta (Meijo University, Japan)	Molecular structure of microorganisms measured by multiplex coherent anti-Stokes Raman scattering microspectroscopy
12. modeling and numerical simulation		
19-P12-01	Kazumasa Ikuse (Osaka University, Japan)	Numerical simulation of Fenton reactions in water exposed to an atmospheric-pressure plasma
19-P12-02	Maksudbek Yusupov (University of Antwerp, Belgium)	Modeling of the behavior of reactive oxygen species in a liquid water layer of interest for plasma medicine
13. others		
19-P13-01	Akiyo Tanaka (Kyushu University, Japan)	Tissue Distribution of Indium After Repeated Intratracheal Instillations of Indium-Tin Oxide in Hamsters
19-P13-02	Masato Kiuchi (National Institute of Advanced Industrial Science and Technology (AIST), Japan)	Atmospheric Chemical Reaction by Air Activation Apparatus Using Corona Discharge and UV Lamp

Tuesday, May 20

CHAIR: Katsuhisa Kitano [2:00p.m. - 3:45p.m.]

Poster No.	Presenting Author (Affiliation, Country)	Title of Paper
01. medical treatment with discharge plasmas		
20-P01-01	Nasruddin (Department of Clinical Nursing, Graduate School of Medical Science, Kanazawa University, Japan)	Visually non-contact argon plasma jet on microliter water-dropped wound accelerates wound healing
20-P01-02	Zilan Xiong (University of California at Berkeley, USA)	Atmospheric Pressure Plasma for Nail Fungus Treatment
20-P01-03	Minjoo Lee (Tokyo City University, Japan)	Treatment of Cardiac Disease by of Atmospheric Pressure Plasma Inhalation
20-P01-04	Konstantin Sobyanin (Gamaleya Institute of Epidemiology and Microbiology, Russia)	Plasma inactivation of biofilms formed ex vivo within a root chanal by the causative agent of pulpitis
20-P01-05	Chiharu Tokita (Tokyo City University, Japan)	Research for Regenerative Medicine Using Micro-spot Atmospheric Pressure Plasma Source
20-P01-06	Shiyu Zhong (Xi'an Jiaotong University, China)	Cell death and cytokine release induced by surface plasma in immortalized human keratinocytes (HaCaT)
20-P01-07	Jun-ichiro Ikeda (Osaka University, Japan)	Effect of non-equilibrium atmospheric pressure plasma in cancer initiating cells
20-P01-08	Maty Tzukerman (Rambam Medical Center, Israel)	The Effect of Cold Plasma Treatment on Cancer Stem Cells
20-P01-09	Yan-Ren Lin (Changhua Christian Hospital, Taiwan)	Pediatric skin inflammatory reactions (urticaria) increases the risk of developing new-onset depression - a database study
20-P01-10	Guillaume Collet (Université d'Orléans, France)	NTP Antitumor Soft Treatment: Evidence of a Triggering Effect?
02. biological reactions to gas plasmas or plasma-treated media/surfaces		
20-P02-01	Ryo Ono (The University of Tokyo, Japan)	Role of Radicals on Cell Viability
20-P02-02	Roger Martin Agustin (Toyohashi University of Technology, Japan)	Development of method for analyzing eukaryotic cellular responses to atmospheric pressure non-thermal plasma using yeast knockdown collection
20-P02-03	Francesca Cavrini (Alma Mater Studiorum - University of Bologna, Italy)	Antimicrobial activity of a low power inductively coupled plasma source at safe levels for eukaryotic cells
20-P02-04	Jeongeong -Hae Choi (Pusan National University, Republic of Korea)	Treatment with low temperature atmospheric pressure plasma enhances cutaneous delivery of epidermal growth factor by regulating E-cadherin-mediated cell junctions

Tuesday, May 20
[2:00p.m. - 3:45p.m.]

Poster No.	Presenting Author (Affiliation, Country)	Title of Paper
20-P02-05	Sung Un Kang (Ajou university school of medicine, Republic of Korea)	Non-thermal atmospheric pressure plasma inhibits invasion of thyroid cancer cells : Involvement of cytoskeletal modulation and MMP change
20-P02-06	Uroš Cvelbar (Jožef Stefan Institute, Serbia)	Effects of Plasma on Lens Epithelial Cells
20-P02-07	Ji Hoon Park (Department of Electrical and biological Physics, Kwangwoon University, Republic of Korea)	A New Generation of Biocompatible Pulse-discharged Plasma by Marx Generator and its Application on the Biomolecules
20-P02-08	Shota Sasaki (Tohoku University, Japan)	Effective Region of Atmospheric Pressure Plasma on Transfection
20-P02-09	Sander Bekeschus (Leibniz Institute for Plasma Science and Technology (INP Greifswald), Germany)	The High Significance of Hydrogen Peroxide in Cold Atmospheric Pressure Plasma treated Human Blood Immune Cells
20-P02-10	Mareike A. Ch. Hänsch (Leibniz Institute for Plasma Science and Technology, INP-Greifswald e.V., Germany)	Bacteria show increased susceptibility against common available antibiotics and no resistance by repetitive atmospheric pressure plasma application
20-P02-11	Pei-Lin Shao (National Cheng Kung University, Taiwan)	Second degree burn wound healing on mice stimulated by N_2/Ar micro-plasma exposure
20-P02-12	Nathaniel D. Taylor (Drexel University, USA)	Energy Source Effects of Non-thermal Plasma Jet on Skin Cancer Cells in Artificial Tissue Scaffold
20-P02-13	Anne Mai-Prochnow (CSIRO Materials Science and Engineering, Australia)	Bacterial biofilm response to argon plasma treatment
20-P02-14	Julius Andrew P. Nunez (University of the Philippines, Philippines)	Antibacterial performance of magnetron sputtered TiO_2 thin films deposited at varying discharge current and deposition time
20-P02-15	Anke Schmidt (Centre for Innovation Competence plasmatis, Leibniz Institute for Plasma Science and Technology (INP), Germany)	Transcriptional profiling in human keratinocytes in response to non-thermal plasma and identification of transcription factor for regulating differential gene expression
20-P02-16	Paulien Smits (Eindhoven University of Technology, Netherlands)	Dielectric barrier discharge devices tailored to specific skin treatments

Poster No.	Presenting Author (Affiliation, Country)	Title of Paper
20-P02-17	Kiijung Kim (KAIST, Republic of Korea)	The effect of atmospheric pressure plasma to angiogenesis
20-P02-18	Matteo Zuin (Consorzio RFX, Associazione Euratom-ENEA sulla fusione, Italy)	Control of time-limited activation of human primary fibroblasts through ROS generation induced by cold atmospheric plasma treatment
03. plasma-based sterilization/decontamination		
20-P03-01	Silvia Polverini (Alma Mater Studiorum - University of Bologna, Italy)	Plasma source for fast and continuous purification of water flows
20-P03-02	Hiroshi Okawa (Yamato Scientific Co.,Ltd., Japan)	Bactericidal Characteristics and Material Conformity of Atmospheric-Pressure Glow Discharge
20-P03-03	Takuya Towatari (Meijo University, Japan)	Inactivation of microorganism in liquid treated with neutral reactive oxygen species
20-P03-05	Tomomasa Itarashiki (Kyushu University, Japan)	Multi-torch type microwave air plasma designed for medical sterilization
20-P03-06	Toru Sasaki (Nagaoka University of Technology, Japan)	Inactivation effect of marine microorganisms on hydrogen mixed gas plasma generated by dielectric barrier discharges
20-P03-07	Yuichiro Takemura (Kinki University, Japan)	Sterilization treatment of bacterial spores contaminated spices by Atmospheric Pressure Plasma Jet
20-P03-08	Kohei Umeda (Kumamoto University, Japan)	Difference of Cell Death Ratio between using Atmospheric-pressure Dry- and Mist- Plasma Jets
20-P03-09	Zimu Xu (University of Science and Technology of China, China)	Sterilizing Effect of *Xanthomonas Campestris* pv. Campestris (*Xcc*) by Corona-Discharge Nonthermal Plasma Exposure at Atmospheric Pressure
20-P03-10	Akira Yonesu (University of the Ryukyus, Japan)	Internal sterilization of a narrow tube by ECR plasma
20-P03-11	Utku Kursat Ercan (Izmir Katip Celebi University, Turkey)	Cellular Responses in *E. coli* upon Exposure to Non-Thermal DBD Plasma Treated N-Acetylcysteine (NAC) Solution
20-P03-12	Sarah Higginbotham (Queen's University BELFAST, UK)	EVALUATION OF THE BACTERICIDAL EFFECT OF A HELIUM BASED ATMOSPHERIC PRESSURE NON THERMAL PLASMA JET ON THE 'ESKAPE' PATHOGENS
20-P03-13	Romolo Laurita (Alma Mater Studiorum - University of Bologna, Italy)	Comparison of the growth inhibition potential of different dielectric barrier discharge operating regimes

Tuesday, May 20
[2:00p.m. - 3:45p.m.]

Poster No.	Presenting Author (Affiliation, Country)	Title of Paper
20-P03-14	Cristina Muja (Toulouse University, CUFR J.F. Champollion, France)	Bacterial surface decontamination of different types of materials using an UV-C dielectric barrier discharge flat lamp
20-P03-15	Hayat Zerrouki (Toulouse University / CNRS, France)	Morphologic changes observed on *E. coli* bacteria submitted to nitrogen and air plasma jets and afterglows
20-P03-16	Lu Han (Dublin Institute of Technology, Ireland)	Inactivation Mechanism of Atomospheric Cold Plasma against *Escherichia coli* and *Staphylococcus aureus* in Liquid
04. agricultural applications of plasma technologies		
20-P04-01	Min Ho Kang (KwangWoon University, Republic of Korea)	The application of O_3 and plasma generated by arc discharge in control of rice Bakanae disease caused by *Fusarium fujikuroi*
20-P04-02	Mohamed El Shaer (Faculty of Engineering, Zagazig University, Egypt)	Treatment of Microorganisms in Vegetables and Fruits by Gliding Arc
20-P04-03	Kohei Yoshida (Iwate University, Japan)	Effects of electrical stimulation by high voltage pulse on yield in sawdust-bed cultivation *Lentinula edodes*
05. pharmaceutical applications of plasma technologies		
20-P05-01	Daiki Yamagami (Okayama University, Japan)	Histological comparison of the wound healing process between non-thermal plasma hemostasis and thermal coagulation hemostasis
06. plasma-based surface modification for medical/biological applications		
20-P06-01	Katja Fricke (Leibniz Institute for Plasma Science and Technology (INP Greifswald e.V.), Germany)	Generation of locally deposited Bioactive Thin Films using Atmospheric Pressure Plasma Jets
20-P06-02	Nichapat Boonyeun (Chulalongkorn University, Thailand)	Preparation of Bacterial Cellulose Composites with the aid of Dielectric Barrier Discharge (DBD) Plasma Treatment
20-P06-03	Sophie Lerouge (Ecole de technologie superieure (ETS), Canada)	Plasma polymer coatings for biomedical applications: effect of aqueous media
20-P06-04	Hitoshi Muguruma (Shibaura Institute of Technology, Japan)	Patterning of Endothelial Cells and Hepatic Stellate Cells with Two Step Plasma-polymerized Processes
20-P06-05	Joanna Pawłat (Lublin University of Technology, Poland)	Treatment of Polymer Surface in APPJ
20-P06-06	Chia-Hsuan Tseng (Graduate Institute of Biomedical Materials and Tissue Engineering, Taipei Medical University, Taiwan)	Cell adhesion enhancement of electrospun microtube array membrane (MTAM) by acetic acid (AA) plasma treatment for hollow fiber assay

Poster No.	Presenting Author (Affiliation, Country)	Title of Paper
20-P06-07	Jang-Hsing Hsieh (Ming Chi University of Technology, Taiwan)	Mechanical and biocompatibility of tunable TaOxNy thin films
20-P06-08	Ayako Oyane (National Institute of Advanced Industrial Science and Technology, Japan)	Laser-assisted biomimetic process for calcium phosphate deposition on a titanium metal
20-P06-09	Mohammad Jellur Rahman (Graduate School of Science and Technology, Shizuoka University, Japan, Bangladesh)	Surfactant-Free Green Approach to Obtain Water-Dispersible Carbon Nanotubes by RF Plasma Treatment
20-P06-10	Nina Recek (Jozef Stefan Institute, Slovenia)	Influence of polymer surface on cell proliferation and cell oxidative homeostasis
20-P06-11	Kiyoshi Ohnuma (Nagaoka University of Technology, Japan)	Plasma-patterned PDMS Coated with Vitronectin and γ-globulin Enables Patterning of Human iPS Cells
07. biochemical/biomolecular engineering with plasmas		
20-P07-01	Mana Oga (Tokyo City University, Japan)	Research for Tissue Regeneration Using Micro-Spot Atmospheric Pressure Plasma Source
20-P07-02	Kuntinee Somboonying (The Petroleum and Petrochemical College, Chulalongkorn University, Thailand)	Deacetylation and Depolymerization of Chitin Hydrogel via Solution Plasma Process
20-P07-03	Takuya Yamasaki (Ehime University, Japan)	Gene Transfection to Human Skin Cells by Microplasma Irradiation Using Microcapillary Electrode
20-P07-04	Amel Zerrouki (Ehime University, Japan)	Analysis of Plasma Irradiation Effect on Cell Membrane Using Artificial Cells
08. fundamentals of atmospheric-pressure plasmas		
20-P08-01	Su-Jeong Kim (Seoul National Univerisity, Republic of Korea)	How to Improve the Reproducibility of Treatment Using Helium Atmospheric Pressure Plasma Jet (He-APPJ)
20-P08-02	Seiya Yonemori (The University of Tokyo, Japan)	Effect of voltage polarity and surface condition on active species production by an atmospheric-pressure helium plasma jet
20-P08-03	Alexey Shashurin (The George Washington University, USA)	Physical processes in the low-frequency nonequilibrium atmospheric plasma jets
20-P08-04	Atsushi Komuro (The University of Tokyo, Japan)	Effects of humidity on gas heating in atmospheric-pressure streamer discharge

Tuesday, May 20
[2:00p.m. - 3:45p.m.]

Poster No.	Presenting Author (Affiliation, Country)	Title of Paper
20-P08-05	Jeong-beom Lee (Korea Advanced Institute of Science and Technology, Republic of Korea)	On the microwave plasma jet characteristics by impedance analysis
20-P08-06	Hidefumi Uchiyama (TATEYAMA MACHINE CO.,LTD, Japan)	Free Radical Generation by Cold Atmospheric Argon Plasma in Aqueous Solutions. An ESR Spin Trapping Study.
20-P08-07	Shinsuke Mori (Tokyo Institute of Technology, Japan)	Influence of Spore Deposition onto the Dielectric Surface on the Mode of Dielectric Barrier Discharge
20-P08-08	Kiyoyuki Yambe (Niigata University, Japan)	Relation between Plasma Plume Density and Helium Gas Flow in Atmospheric Pressure Plasma
09. plasma-surface interactions relevant for medical/biological applications		
20-P09-01	Kensaku Goto (Osaka University, Japan)	Generation of reactive species in water exposed to low-temperature atmospheric-pressure plasma jets
20-P09-02	Hironobu Hojo (Osaka University, Japan)	Effect of Plasma Jet on Carbohydrate Derivatives
20-P09-03	Andrea Friedmann (Fraunhofer Institute for Mechanics of Materials IWM, Halle, Germany)	Evaluation of Cell Growth on Nanostructured and Functionalized Polystyrene
20-P09-04	Sou Takasawa (Shibaura Institute of Technology, Japan)	Local Injection using Reagent-laden Micro-bubbles
20-P09-05	Enbo Yang (Shizuoka University, Japan)	Plasma Surface Functionalization of Graphite-Encapsulated Gold Nanoparticles for Bio-medical Application
20-P09-06	Han Chou (Shizuoka University, Japan)	Surface Functionalization of Graphite-encapsulated Magnetic Nanoparticles with Amino Groups Using RF Excited Ar/NH_3 Plasma
10. plasma sources for medical/biological applications		
20-P10-01	Simone Bianconi (Alma Mater Studiorum - University of Bologna, Italy)	Investigation of the effectiveness of a *Gatling machine gun* -like plasma source for biomedical and materials treatment applications
20-P10-02	Philippe Guillot (Toulouse University, CUJR JFC, France)	Experimental characterization of a coaxial microwave plasma source and efficiency on microbial surface decontamination
20-P10-03	Satoru Hida (Nagaoka University of Technology, Japan)	Sterilization of *Escherichia coli* by atmospheric pressure plasma irradiati on using superimposed waveform pulsed-power generator
20-P10-04	Sun Ja Kim (Dong-A University, Republic of Korea)	Generation of Multiple Plasma Plumes and Biomedical Applications in an Atmospheric Pressure Plasma Jet Array

Poster No.	Presenting Author (Affiliation, Country)	Title of Paper
20-P10-05	Han Seul Lee (Kwangwoon University, Republic of Korea)	Study on Low Temperature Plasma by using Pulse Mode SSPA
20-P10-06	Seung-Ju Lim (Kwangwoon university, Republic of Korea)	Characteristics of Nonthermal Plasma source in Various Liquids
20-P10-07	GeonBO Sim (Kwangwoon University, Republic of Korea)	Characteristics of Bovine Teeth Whitening in Accordance with Gas Environments of Atmospheric Pressure Nonthermal Plasma Jet
20-P10-08	Masaya Sugimoto (Akita Prefectural University, Japan)	Investigation of Sterilization Effect with Low Pressure RF Oxygen Plasma
20-P10-09	Charles C. Bailey (Drexel University, USA)	Development of a hand sanitizer employing non-thermal plasma activated mist
20-P10-10	Youngmin Kim (Hong Ik University, Republic of Korea)	Low voltage Plasma-on-a-Chip for Infection Treatment
20-P10-11	Jun-Seok Oh (Kochi University of Technology, Japan)	Bladder cancer cell lines cultured by plasma treated cell culture medium
20-P10-12	Paolo Sanibondi (Alma Mater Studiorum - University of Bologna, Italy)	Diagnostics of a low power inductively coupled plasma source for potential biomedical applications
20-P10-13	Dongping Liu (Dalian Nationalities University, China)	Atmospheric-pressure microplasmas for medical/biological applications
20-P10-14	Chang Min Lee (Ajou University, Republic of Korea)	An atmospheric-pressure microplasma jet device with Ni-Co alloy electrode and glass insulator
11. plasma and/or liquid diagnostics and sensors		
20-P11-02	Ma. Camille C. Lacdan (University of the Philippines Diliman, Philippines)	Spectroscopic Investigation of Nitrogen Radical Transport in Atmospheric Jet Plasma
20-P11-03	Mikhail Vasiliev (Joint Institute for High Temperatures of the Russian Academy of Sciences (JIHT RAS), Russia)	Diagnostics of cold atmospheric pressure plasma generated by various plasma sources
20-P11-04	Keigo Takeda (Nagoya University, Japan)	Characteristics of AC excited Non-equilibrium Atmospheric Pressure Helium Plasma Jet for Medical Application
20-P11-05	Delphine Riès (CNRS, France)	OH LIF for *in situ* plasma jet diagnostics
20-P11-06	Mario Dünnbier (INP Greifswald e.V. plasmatis, Germany)	Ion measurements of a cold atmospheric pressure plasma jet: The influence of ambient air humidity

Tuesday, May 20
[2:00p.m. - 3:45p.m.]

Poster No.	Presenting Author (Affiliation, Country)	Title of Paper
12. modeling and numerical simulation		
20-P12-01	Wouter Van Gaens (University of Antwerp, Belgium)	Revealing the NO generation mechanism in a needle type plasma jet
20-P12-02	Satoshi Uchida (Tokyo Metropolitan University, Japan)	Reactive Molecular Dynamics between Oxygen Radial and Phosphatidylcholine by Plasma Irradiation
20-P12-03	Dingxin Liu (Xi'an Jiaotong University, China)	The penetration process of gaseous reactive species into aqueous solution: A modeling study
13. others		
20-P13-01	Takanori Ito (Iwate University, Japan)	Preservation of Fresh Food Using AC Electric Field
20-P13-02	Hiromasa Tanaka (Nagoya University, Japan)	Signaling circuits that are affected by plasma-activated medium in brain tumor cells