

TOPICS OF *ISPC24*



(1) Fundamentals, diagnostics and modelling in plasma chemistry



(2) Plasma sources design and characterization



(3) Plasma processing of nanomaterials and nanostructures: synthesis, modification and nanofabrication



(4) Plasma deposition of functional coatings and treatment of inorganic and organic materials



(5) Thermal plasma fundamentals and applications



(6) Plasma-assisted conversion, combustion, propulsion and aerodynamics



(7) Plasma medicine and plasma agriculture



(8) Plasma treatment of biomaterials



(9) Plasma in and in contact with liquids



(10) Plasmas for environmental applications and resource recovery

MONDAY (morning)			
08:15	Opening ceremony		
08:30	Chair		
08:45	Maria Adriana Creatore		
	<i>Achim von Keudell</i> High Power Impulse Magnetron Sputtering – Extreme Plasmas for Extreme Materials Plenary lecture I		
09:30			
09:45	Chairs Peter Bruggeman, Richard Engeln	Chairs Thierry Belmonte, Gheorghe Dinescu	Chairs Masaya Shigeta, Takayuki Watanabe
10:00	Igor Adamovich Electric field measurements in atmospheric pressure discharges for plasma-assisted combustion and plasma flow control applications I-1 (1)	Hiba Kabbara Hexagonal boron nitride thin films synthesis by micro hollow cathode discharges O-13 (3) ID-198	Anthony Murphy Metal vapour transport in tungsten–inert gas welding O-7 (5) ID-420
		Hiromasa Ohmi Porous Ge nano-particle formation from GeO2 nano-particle using high-pressure H2-based plasma O-14 (3) ID-418	Makoto Kambara Modification of Si nanoparticle structure through co-condensation in plasma flash evaporation of Si-Al binary powder feedstock O-8 (5) ID-204
10:15	Angelo Bonzanini Real-time Diagnostics of Cold Atmospheric Pressure Plasmas using Machine Learning O-1 (1) ID-199	Si-Yuan Zhang Gliding Arc Plasma Synthesis of Titania-based Photocatalysts: Effect of Swirl-Gas Flow Rate O-15 (3) ID-111	Juan Pablo Trelles Nonequilibrium Phenomena in Thermal Plasmas I-2 (5)
10:30	Arnaud Gallant Long-lived emission in the afterglow of Nitrogen NRP discharges: a tool for hydrodynamics and kinetics studies O-2 (1) ID-416	Caillard Amael Titanium and titanium oxide thin films deposition by “Hot target” Magnetron Sputtering O-16 (3) ID-339	
10:45	Refreshment break (30 min)		
11:15	Inna Orel Axial Electric Field Component in a Fast Ionization Wave in Nanosecond Pulsed Nitrogen Discharge at 20-100 mbar O-3 (1) ID-175	Masaharu Shiratani Exotic combination of optical and mechanical properties of nanoparticle composite thin films fabricated by plasma processes I-3 (3)	Igor Kaganovich Validated Modeling of Atmospheric - Pressure Anodic Arc O-9 (5) ID-250
11:30	Jian Wu Spatial Confinement Effects of Laser Produced Plasmas in Air and under Water O-4 (1) ID-224		Manabu Tanaka Fluctuation Phenomena in Diode-Rectified Multiphase AC Arc for Improvement of Electrode Erosion O-10 (5) ID-367
11:45	Austin Woodard Development of a test-bed technology for the Langmuir Probe investigation of dusty non-thermal plasmas O-5 (1) ID-377	Pavel Pleskunov Synthesis of COOH-functionalized plasma polymer nanoparticles O-17 (3) ID-88	Chayma Mohsni Complementary studies of dc arc by experiments and combined modelling of the plasma bulk and the cathode boundary layer O-11 (5) ID-361
12:00	Ciprian Dumitrache Measurements of ground state atomic nitrogen in high-pressure NRP discharges using fs-TALIF O-6 (1) ID-305	Thierry Belmonte Synthesis of CdO nanostructures by nanosecond pulsed discharges in liquid nitrogen O-18 (3) ID-97	Yasunori Tanaka A Three Dimensional Two-Temperature Model of Loop-Type of Ar Inductively Coupled Thermal Plasmas for Large-Area Materials Processing O-12 (5) ID-240
12:15	Lunch break (1h45min)		

MONDAY (afternoon)			
14:00	Chairs Anne Bourdon - Satoshi Hamaguchi	Chairs Steven Girshick - Masaharu Shiratani	Chairs Petr Lukes - Cristina Paradisi
	Vasco Guerra CO2 plasmas: from solar fuels to oxygen production on Mars I-4 (1)	Anne-Lise Thomann First stages of metal surface nanostructuration by He+ implantation: plasma experiments and molecular dynamics simulations O-27 (3) ID-196	Annemie Bogaerts Coupled 0D chemical kinetics and 2D fluid dynamics modelling of a plasma jet interacting with water: Reactivity and stability of RONS O-23 (9) ID-182
14:15		Zhaohan Li All-gas-phase Synthesis and Functionalization of Silicon Quantum Dots O-28 (3) ID-260	Giuliana Bruno Plasma-induced species deposited in liquids: on the Sulphur oxidation path to elucidate predominant chemical dynamics O-24 (9) ID-329
14:30	Qianhong Zhou PIC/DSMC Simulation of Vacuum Arc Discharge with Active Anode O-19 (1) ID-206	Chad Beaudette Low Temperature Plasma Enhanced Atomic Layer Deposition of Two Dimensional Molybdenum Disulfide O-29 (3) ID-454	Audoain Hamon Plasma generation within gas bubbles using a Plasma Gun O-25 (9) ID-338
14:45	Carlos Pintassilgo Modelling the time-dependent gas heating in low-pressure CO2 and N2 pulsed DC discharges O-20 (1) ID-161	Jan Hanuš In-flight plasma treatment of Fe nanoparticles O-30 (3) ID-58	Vít Jirásek Interaction of chloride solutions with plasma-supplied reactive oxygen species-transferring reactivity from gas to liquid O-26 (9) ID-293
15:00	Nikolay Popov Energy efficiency of O2 dissociation in high pressure electron-beam plasmas O-21 (1) ID-141	Jing Zhang Hybrid Nanoparticulate Coating in Porous Polymers by Roll to Roll Atmospheric Pressure Plasma O-31 (3) ID-384	Zdenko Machala Plasma activated water chemical and antibacterial effects correlate with gaseous and aqueous RONS, plasma source, air and water flow conditions I-5 (9)
15:15	Amal Allouch On the stable forms of carbon clusters produced in low pressure sputtering discharge O-22 (1) ID-149	François Reniers Comparison of two atmospheric plasma routes for the synthesis of Pt nanoparticles for fuel cell applications O-32 (3) ID-437	
15:30	Refreshment break (30 min)		
16:00	3 min poster pitches		
16:15			
16:30			
16:45	Parallel poster sessions (1-6-9-10)		
18:00			
19:00			

TUESDAY (morning)			
08:30	Chair Alexander Fridman		
	<i>Jean-Michel Pouvesle</i> Plasma medicine: issues and challenges linked to the plasma/biological target interactions Plenary lecture II		
09:15			
09:30	Chairs He Ping Li - Achim von Keudell	Chairs Masaru Hori - Romolo Laurita	Chairs Maria Adriana Creator - Dirk Hegemann
	<i>Tom Butterworth</i> Vibrational energy transfer in CH4 plasma O-40 (1) ID-277	<i>Cristina Canal</i> Potential of hydrogels and liquids in plasma therapy of osteosarcoma I-6 (7)	<i>Charlotte Ruhmlied</i> Functionality by Nanostructuring: PECVD of Tin-Sulfide Nanowalls O-45 (4) ID-96
09:45	<i>Senne Van Alphen</i> Gas temperature and vibrational temperature in a pulsed N2 microwave plasma: a combined experimental and computational study to explore non-equilibrium conditions O-41 (1) ID-326		<i>Montgomery Jaritz</i> Methods for a fast evaluation of the nano-porosity of thin coatings for the development of plasma polymeric membranes O-46 (4) ID-142
10:00	<i>Richard Engeln</i> Vibrational kinetics of CO2 in non-thermal plasma I-7 (1)	<i>Thierry Dufour</i> Treatment of carcinomas using atmospheric pressure plasma jets: from targets to in vivo models to investigate innocuity and therapeutic efficiency O-33 (7) ID-434	<i>Anna Maria Coclite</i> Study of the properties of Al:ZnO thin films grown by plasma-enhanced atomic layer deposition O-47 (4) ID-426
10:15		<i>Eloisa Sardella</i> Plasma-Cell interactions mediated by liquid phase chemistry: in vitro testing methods toward therapeutic approaches O-34 (7) ID-101	<i>Vasiliki Eleftheria Vrakatseli</i> Fabrication of superhydrophilic and amphiphilic TiO2 thin films by glancing angle RF magnetron sputtering at low substrate temperature O-48 (4) ID-449
10:30	<i>Alexandra Brisset</i> Insights into the peculiar field structure of a recent diffuse discharge under extreme voltage conditions by electric field induced second harmonic generation and optical emission spectroscopy O-42 (1) ID-103	<i>Raluca Alina Bisag</i> Anticancer activity of plasma activated liquids for the treatment of epithelial ovarian cancer cells O-35 (7) ID-444	<i>Mary Gilliam</i> Atmospheric Plasma Deposited Films from Several Organosilanes and Differences in Chemical Structure and Si-O-Si Bonding Arrangements O-49 (4) ID-247
10:45	Refreshment break (30 min)		
	Chairs Richard van De Sanden - Ester Marotta		
11:15	<i>Mark Kushner</i> Chemical Conversion in Atmospheric Pressure Plasmas Sustained in Packed Bed Reactors I-8 (10)	<i>Yury Gorbanev</i> COST plasma jet: More than a reference standard O-36 (7) ID-25	<i>François Loyer</i> Atmospheric pressure plasma initiated chemical vapor deposition (AP-PiCVD) – temporally isolated discharges for the growth of functional polymers O-50 (4) ID-279
11:30		<i>Marco Krewing</i> A dielectric barrier discharge plasma degrades proteins to peptide fragments cleaving the peptide bond O-37 (7) ID-125	<i>Miroslav Michlíček</i> Plasma Polymerization of Cyclopropylamine in Argon on Non-planar and Porous Substrates: Sticking Probability and Deposition Penetration Depth O-51 (4) ID-74
11:45	<i>Di Li</i> Experimental study on plasma promoted catalytic synthesis of hydrocarbons from syngas O-43 (10) ID-257	<i>Kristian Wende</i> Small molecule analytics to elucidate the impact of plasma derived chemical species on biological targets O-38 (7) ID-381	<i>Rony Snyders</i> Recent advances in the control of the nanoarchitecture of plasma generated organic-based thin films I-9 (4)
12:00	<i>Shaojun Xu</i> The catalytic role of metal species for CO2 dissociation in plasma-catalytic process: a combined experimental and DFT study O-44 (10) ID-390	<i>Shota Sasaki</i> Chemical modification of tyrosine by atmospheric pressure plasma exposure O-39 (7) ID-246	
12:15	Lunch break (1h45min)		

TUESDAY (afternoon)			
14:00	<p>Chairs Pietro Favia - Rony Snyders</p> <p><i>Marc Böke</i> Separated effects of plasma species and post-treatment on the properties of barrier layers on polymers O-60 (4) ID-178</p>	<p>Chairs Anton Nikiforov - Alessandro Patelli</p> <p><i>Bram Wolf</i> Elucidating the role of gas dynamics in the vortex-confined microwave plasma on CO2 dissociation efficiency O-56 (2) ID-294</p>	<p>Chairs: Javad Mostaghimi - Gervais Soucy</p> <p><i>Masasya Shigeta</i> To simulate turbulent thermal plasma flows for nanopowder fabrication I-10 (5)</p>
14:15	<p><i>Annaëlle Demaude</i> Easy synthesis of hybrid hydrophilic-hydrophobic patterned surfaces by atmospheric plasmas O-61 (4) ID-227</p>	<p><i>Georgi Trenchev</i> Atmospheric pressure glow discharge: design improvement based on modelling and experiments O-57 (2) ID-167</p>	
14:30	<p><i>Huidong Hou</i> Effect of Precursor Chemistry on the microstructure of Ba(Mg_{1/3}Ta_{2/3})O₃ during Hybrid Suspension/Solution Precursor Plasma Spraying O-62 (4) ID-242</p>	<p><i>Françoise Massines</i> Dual frequency DBDs or how to design an atmospheric pressure plasma for surface treatment I-11 (2)</p>	<p><i>Vittorio Colombo</i> Design-oriented modelling for the synthesis of Cu nanoparticles by a RF thermal plasma: impact of quenching solutions, radiative losses and thermophoresis O-52 (5) ID-275</p>
14:45	<p><i>Shota Nunomura</i> Defect generation and annihilation in hydrogenated amorphous silicon during plasma treatment O-63 (4) ID-121</p>		<p><i>Yasunori Tanaka</i> Effect of Alternating Gas Injection on Temperature Fields in Reaction Chamber using Inductively Coupled Thermal Plasmas for Nanoparticle Synthesis O-53 (5) ID-54</p>
15:00	<p><i>Maria Adriana Creatore</i> Plasma deposition of functional coatings and treatment of inorganic and organic materials I-12 (4)</p>	<p><i>Javad Mostaghimi</i> Advantages of the New Conical Torch for ICP Spectrometry O-58 (2) ID-451</p>	<p><i>Alexander Ustimenko</i> Plasma Treatment of Biomedical waste O-54 (5) ID-13</p>
15:15		<p><i>Efe Kemaneci</i> A zero-dimensional modelling of a coaxial surface wave discharge in oxygen diluted with hexamethyldisiloxane for the deposition of SiO_x films O-59 (2) ID-197</p>	<p><i>Tae-Hee Kim</i> Reproduction of cosmic dust analogues by non-equilibrium condensation in triple DC thermal plasma jet system O-55 (5) ID-332</p>
15:30	Refreshment break (30 min)		
16:00			
16:15	3 min poster pitches		
16:30			
16:45	Parallel poster sessions (1-2-4-7-8)		
18:00			
19:00			

WEDNESDAY (morning)			
08:30	<p>Chair Mark J. Kushner</p> <p><i>Anne Bourdon</i> Challenges in the modeling and the simulation of low-temperature plasmas Plenary lecture III</p>		
09:15			
09:30	<p>Chairs Igor Adamovich - Yi-Kang Pu</p> <p><i>Jianping Zhao</i> Vibrational and rotational properties of O₂ molecules in very high frequency plasmas with high sensitivity broadband absorption spectroscopy O-70 (1) ID-236</p>	<p>Chairs Matteo Gherardi - David Graves</p> <p><i>Nevena Puac</i> Plasmas for plant bio-engineering and in agriculture for resource recovery I-13 (7)</p>	<p>Chairs Cristina Canal - Eloisa Sardella</p> <p><i>Behnam Akhavan</i> Controlling the orientation and density of peptides irreversibly immobilized on ion-assisted plasma polymerized films O-67 (8) ID-291</p>
09:45	<p><i>Sina Jahanbakhsh</i> Experimental investigation of microdischarges in cathodic pin polarity of a barrier corona arrangement O-71 (1) ID-44</p>		<p><i>Zilan Xiong</i> Application of air plasma generated by surface micro-discharge in decellularized porcine aortic valve leaflets treatment O-68 (8) ID-424</p>
10:00	<p><i>Martin Alliti</i> Mass Spectrometric Detection of Ionic Species in a Naphthalene Plasma: Understanding Fragmentation Patterns and Growth of PAHs O-72 (1) ID-312</p>	<p><i>Hiroshi Hashizume</i> Effect of plasma treatment on growth and harvest of rice seeds O-64 (7) ID-303</p>	<p><i>Diego Mantovani</i> Direct functionalization of metals by low-pressure plasma improves the clinical performances of coronary stents: From surface modification to in vitro and in vivo validation I-14 (8)</p>
10:15	<p><i>Ana Filipa Sovelas da Silva</i> Ar addition to CO₂ plasmas for controlling dissociation and vibrational excitation O-73 (1) ID-310</p>	<p><i>Fabio Palumbo</i> Plasma-assisted deposition of fungicide containing coatings for encapsulation and protection of maize seeds O-65 (7) ID-41</p>	
10:30	<p><i>Adam Obrusnik</i> Identifying the scaling parameters of neutral kinetics in DBD plasma atomizers using screening and variance-based sensitivity analysis O-74 (1) ID-346</p>	<p><i>Naoyuki Iwata</i> Novel bactericidal method for aquaculture using benzoic-compound solutions treated with oxygen radicals O-66 (7) ID-53</p>	<p><i>Fiorenza Fanelli</i> Direct Exposure of dry enzymes to atmospheric pressure cold plasmas O-69 (8) ID-307</p>
10:45	Refreshment break (30 min)		
11:15	Chair: Annemie Bogaerts		
	<p>Plasma Chemistry Award lecture: <i>Alexander Fridman</i> Why Plasma Chemistry is so often a key to breakthrough innovations from energy systems, electronics, and new materials to water treatment, agriculture and medicine?</p>		
12:15	Group Photo		
12:30	Lunch break (1h)		
13:30	Wednesday afternoon excursions		

THURSDAY (morning)			
08:30	<p>Chair Peter Bruggeman</p> <p><i>Fumiyoshi Tochikubo</i></p> <p>Diagnostics and modelling of plasma and liquid interfacial phenomena</p> <p>Plenary lecture IV</p>		
09:15			
09:30	<p>Chairs Diego Mantovani - Fabio Palumbo</p> <p><i>Dirk Hegemann</i></p> <p>Water intrusion in nanometer-thick plasma polymer films O-87 (4) ID-32</p>	<p>Chairs Frantisek Krcma - Zdenko Machala</p> <p><i>Felipe Iza</i></p> <p>Plasma-driven Organic Synthesis: Waste-free Epoxidation O-82 (9) ID-443</p>	<p>Chairs Christophe Laux - Gerard Van Rooij</p>
	<p><i>Tommaso Galligani</i></p> <p>Cold atmospheric plasma assisted deposition of nanostructured coatings to reduce biofilm adhesion and proliferation O-88 (4) ID-404</p>	<p><i>David Staack</i></p> <p>Preliminary results for Hydrocarbon conversion induced by submerged plasma O-83 (9) ID-439</p>	<p><i>David Go</i></p> <p>Rethinking the design of catalysts for plasma-catalysis systems I-15 (6)</p>
10:00	<p><i>Jiri Kratochvil</i></p> <p>C:H:N:O plasma polymers films for storage/release of antibiotics O-89 (4) ID-230</p>	<p><i>Elijah Thimsen</i></p> <p>Characterization of the electrochemical potential at the plasma-water interface O-84 (9) ID-391</p>	<p><i>Gottlieb Oehrlein</i></p> <p>Mechanistic Aspects of Plasma-Enhanced Catalytic CH₄ Decomposition: Surface Infrared Measurements of CH_x Oxidation and CO formation on Ni Catalyst O-75 (6) ID-203</p>
10:15	<p><i>Uwe Lommatzsch</i></p> <p>Deposition of a biodegradable inorganic-organic hybrid precursor via aerosol injection in the afterglow of a cold atmospheric pressure plasma jet O-90 (4) ID-102</p>	<p><i>Tatsuru Shirafuji</i></p> <p>Materials processing by efficient utilization of plasma-liquid interface I-16 (9)</p>	<p><i>Yanhui Yi</i></p> <p>Methane to Methanol through CH₄/O₂ Plasma Catalysis with Ni-based Catalysts O-76 (6) ID-223</p>
10:30	<p><i>Lei Wang</i></p> <p>Aerosol assisted plasma deposition for antibacterial coating O-91 (4) ID-220</p>		<p><i>Davide Beretta</i></p> <p>Low-pressure non-thermal plasma assisted heterogeneous catalysis: new insights on the reactor and the processing O-77 (6) ID-370</p>
10:45	Refreshment break (30 min)		
	<p>Chairs Jan Benedikt, Fumiyoshi Tochikubo</p>	<p>Chairs Yuzuru Ikehara, Eric Robert</p>	
11:15	<p><i>Yong-Xin Liu</i></p> <p>Striations in dual-frequency capacitively coupled CF₄ plasmas O-92 (1) ID-93</p>	<p><i>Julia Bandow</i></p> <p>Plasma meets biotechnology – coupling plasma and enzymatic reactions I-17 (7)</p>	<p><i>Duy Khoe Dinh</i></p> <p>Control of non-thermal effect in low current arc for fuel conversion O-78 (6) ID-321</p>
11:30	<p><i>Andrey Starikovskiy</i></p> <p>Streamer development in air with density discontinuity O-93 (1) ID-238</p>		<p><i>R. Mohan Sankaran</i></p> <p>Lightning in a bottle: Plasma electrolytic synthesis of ammonia from nitrogen and water O-79 (6) ID-160</p>
11:45	<p><i>Pedro Viegas</i></p> <p>Self-consistent diffusion approach to CO₂ vibrational kinetics O-94 (1) ID-226</p>	<p><i>Barbora Tarabová</i></p> <p>Bactericidal effects induced by air transient spark with electrospray and/or PAW linked with RONS chemistry enhanced by other plasma agents O-85 (7) ID-415</p>	<p><i>Guido Giammaria</i></p> <p>Plasma enhanced CaCO₃ hydrogenation for direct fuel production O-80 (6) ID-375</p>
12:00	<p><i>Elise Vervloessem</i></p> <p>Modelling the Chemistry of a N₂/O₂ Plasma in a Gliding Arc Plasmatron O-95 (1) ID-324</p>	<p><i>Gaurav Nayak</i></p> <p>On the comparison of direct and remote plasma treatment with UV disinfection for virus inactivation O-86 (7) ID-105</p>	<p><i>Yichen Ma</i></p> <p>Plasma cracking of n-dodecane for co-generation of CO_x-free hydrogen and C₂ hydrocarbons O-81 (6) ID-295</p>
12:15	Lunch break (1h45min)		

	THURSDAY (afternoon)		
14:00	<p>Chairs Vasco Guerra - Nevena Puac</p> <p><i>Alex van de Steeg</i> Vibrational and gas heating dynamics in molecular plasma assessed by Thomson and Raman scattering O-110 (1) ID-168</p>	<p>Chairs Eun Ha Choi - Emilio Martines</p> <p><i>Jeongyeon Park</i> Non-Thermal Atmospheric Pressure Plasma as an efficient tool to activate the proliferation of most mesoderm-derived adult stem cells in vitro O-103 (7) ID-39</p>	<p>Chairs Sylvain Coulombe - Jaco van der Walt</p> <p><i>Xuekai Pei</i> Reducing Energy Cost of NO_x Production in Air Plasmas O-96 (10) ID-153</p>
14:15	<p><i>Caecilia Fröhler</i> A portable diode system for the quantification of absolute VUV/UV photon fluxes in low pressure plasmas O-111 (1) ID-118</p>	<p><i>Jinno Masafumi</i> Gene transfer efficiency of surface discharge method depending on molecular size and collision frequency between gene and cell O-104 (7) ID-237</p>	<p><i>Yaolin Wang</i> Novel insight into the plasma-enhanced catalytic synthesis of ammonia over transition metallic catalysts O-97 (10) ID-221</p>
14:30	<p><i>Timothy Chen</i> Time-resolved measurements of electric field, electron temperature, and electron density in a nanosecond-pulsed dielectric barrier discharge O-112 (1) ID-180</p>	<p><i>Augusto Stancampiano</i> To ground or not to ground? That is a key question... during plasma medical treatment O-105 (7) ID-283</p>	<p><i>Ester Marotta</i> New mechanistic insight in plasma based water treatments I-18 (10)</p>
14:45	<p><i>Peter Bruggeman</i> Hollow structure in nanosecond pulsed pin-pin discharge during the breakdown phase O-113 (1) ID-94</p>	<p><i>Antoine Rousseau</i> Wound healing using cold plasmas for: in vitro and in vivo study O-106 (7) ID-423</p>	
15:00	<p><i>Tat Loon Chng</i> Atomic nitrogen production in nanosecond tube discharges O-114 (1) ID-176</p>	<p><i>Yuzuru Ikehara</i> Low-temperature plasma treatment is a new tissue processing technology - Plasma-induced blood coagulation limits the excessive host responses I-19 (7)</p>	<p><i>Di Li</i> High yield direct synthesis of liquid organics from CO₂ and CH₄ in a plasma-catalysis packed bed reactor O-98 (10) ID-258</p>
15:15	<p><i>Emanuele Simoncelli</i> UV-VIS optical spectroscopy investigation on the kinetics of long-lived RONS produced by a surface DBD plasma source O-115 (1) ID-401</p>		<p><i>Michael Schmidt</i> Two-stage SDBD-reactor for VOC-treatment: Influence of the interstage gas residence time O-99 (10) ID-217</p>
15:30	Refreshment break (30 min)		
16:00	<p>Chairs: David Go - Paolo Tosi</p> <p><i>Pablo Escot Bocanegra</i> Gliding arc plasma effects on a CH₄-air turbulent swirling flame O-116 (6) ID-151</p>	<p><i>Van der Paal Jonas</i> How the cell membrane composition influences plasma-induced cellular effects O-107 (7) ID-89</p>	<p><i>Jacopo Profili</i> Water Stability of Hydrophobic Organosilicon Coatings Deposited on Cellulosic Materials by Atmospheric Pressure Dielectric Barrier Discharge O-100 (10) ID-408</p>
16:15	<p><i>Tomohiro Nozaki</i> Pulsed reaction spectrometry of DBD-mediated biogas reforming O-117 (6) ID-213</p>	<p><i>Katsuhisa Kitano</i> Peroxyntic acid (HOONO₂) chemistry inside plasma-treated water (PTW) for effective and safety disinfection O-108 (7) ID-302</p>	<p><i>Shiyun Liu</i> Plasma-catalytic gas cleaning processes for the removal of model tar compound from biomass gasification O-101 (10) ID-333</p>
16:30	<p><i>Farhan Ahmad</i> Approaching the reaction equilibrium through a non-equilibrium approach: Plasma catalytic synergy for low temperature CO₂ Methanation O-118 (6) ID-427</p>	<p><i>Martin Weiss</i> Evaluation of the functional tissue penetration depth of non-thermal argon plasma treatment of primary and patient-derived tissue samples by contact- and marker-independent Raman microspectroscopy O-109 (7) ID-290</p>	<p><i>Glocker Bernd</i> Water plasma plant for halogenated hydrocarbon decomposition O-102 (10) ID-399</p>
16:45	Parallel poster sessions (3-4-5-7)		
18:00			
19:00			
20:00			

FRIDAY (morning)			
08:30	Chair Françoise Massines <i>Yi-Kang Pu</i>		
08:45	High repetition rate pulsed discharges Plenary lecture V		
09:15			
09:30	Chairs Tomohiro Nozaki - Uros Cvelbar	Chairs Hyun-Ha Kim - Mohan Sankaran	Chairs Françoise Massines - James Walsh
	09:45	<i>Uros Cvelbar</i> On the quest for a deterministic approach to plasma synthesis and conversion of nanowires I-20 (3)	<i>Irina Kistner</i> Investigation of a Plasma Membrane Reactor for CO ₂ Decomposition O-133 (6) ID-45
		<i>Ramses Snoeckx</i> Plasma-based dry reforming of methane: What role does N ₂ play in a dielectric barrier discharge? O-134 (6) ID-9	<i>Andrzej Bartnik</i> EUV induced, low temperature, plasma source O-127(2) ID-92
10:00	<i>Elmira Pajootan</i> Radio-Frequency Plasma-Assisted Pulsed Laser Deposition of TiO _x N _y on Multi-walled Carbon Nanotubes: A Structural and Compositional Study O-119 (3) ID-201	<i>Dae Hoon Lee</i> Review and Discussion on the Use of Plasma for Catalyst Regeneration O-135 (6) ID-263	<i>Ananthanarasimhan Jayanarasimhan</i> Observation of Arc Rotation and Voltage characteristics in Rotating Gliding Arc O-128 (2) ID-157
10:15	<i>Igor Kaganovich</i> Root Growth of Carbon and Boron Nitride Nanotubes in Plasma of High Pressure Arc O-120 (3) ID-251	10:30	<i>Gerard van Rooij</i> Microwave plasma activation of CO ₂ - accessing vibrational non-equilibrium I21 (6)
10:30	<i>Jan Benedikt</i> Atmospheric plasma jets for generation of nanostructured materials or nanoparticles O-121 (3) ID-344		<i>Enrico Bisceglia</i> Molecular gases dissociation in microwave plasmas via electronically excited states production of atomic species O-129 (2) ID-210
10:45	Refreshment break (30 min)		
11:15	<i>Alejandro Alvarez Barragan</i> Non-Thermal Plasma Processing of TiN Nanoparticles for Plasmonic Catalysis O-122 (3) ID-239	<i>Aric Rouso</i> Kinetic Effect of Hydrocarbon Oxidation on Streamer Instabilities in Nanosecond-pulsed Plasma Discharges O-136 (6) ID-245	11:30
11:30	<i>Jozef Toman</i> Influence of plasma discharge instability on the synthesis of graphene nanosheets in dual-channel microwave plasma torch at atmospheric pressure O-123 (3) ID-170	<i>Nicolas Minesi</i> Formation of a fully ionized plasma by nanosecond discharges in air at atmospheric pressure O-137 (6) ID-369	
11:45	<i>Mineo Hiramatsu</i> Fabrication of graphene-based materials using microwave-excited non-equilibrium atmospheric pressure plasma O-124 (3) ID-368	<i>Chenyang Ding</i> Measurement of electron temperature and electron density in filamentary nanosecond surface dielectric barrier discharge O-138 (6) ID-171	<i>Florent P. Sainct</i> Influence of the source geometry on the helium HeM(23S) metastable atoms production in a He/O ₂ plasma jet impacting on liquid surface O-131 (2) ID-208
12:00	<i>Audrey Chatain</i> Interaction of complex organic matter with N ₂ -H ₂ plasma, to understand Titan's ionospheric dusty plasma O-125 (3) ID-410	<i>Natalia Babaeva</i> Positive nanosecond surface discharge at high pressures and voltages O-139 (6) ID-186	<i>Pierre Tardiveau</i> Spatio-temporal measurements of the electronic density in a diffuse corona discharge under extreme voltage conditions O-132 (2) ID-214
12:15	General assembly, awards and announcement of ISPC25 (1h15min)		