

Poster session I – Wed 13th July

01. Atomic and molecular processes in plasmas

P01-01-01	Michal Ďurian	Evolution of the continuum radiation spectra of H ₂ and D ₂ with electron energy
P01-01-02	Michal Lacko	Dicyclohexyl phthalate fragmentation by electron impact
P01-01-03	Michal Lacko	Electron induced dissociation of 2,4,6-trichloroanisole
P01-01-04	Juraj Országh	Electron Impact Excitation of Nitrous Oxide
P01-01-05	Peter Papp	Electron Ionisation and Electron Attachment Dissociation of Iron Pentacarbonyl Clusters
P01-01-06	Anita Ribar	Electron attachment to doped Neon clusters
P01-01-07	Michal Stano	Study of 2,4,6-Trichloroanisole by Ultraviolet Photoelectron Spectroscopy

02. Transport phenomena, particle velocity distribution function

P01-02-01	Luís Alves	Intercomparison of calculation techniques of the electron Boltzmann equation for the analysis of swarm parameters in CO ₂
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04. Plasma surface interaction

(boundary layers, sheaths, surface processes)

P01-04-01	Lucia Bónová	Alignment mechanism of carbon nanowalls synthesized by atmospheric PECVD method
P01-04-02	Gilles Cartry	H- negative-ion surface production in low pressure hydrogen plasmas
P01-04-03	Oleksandr Galmiz	Bactericidal effect of plasma treatment on inner side of PTFE tubes
P01-04-04	Veronika Medvecká	Plasma assisted preparation of metal oxide nanofibers
P01-04-05	Anna Zahoranová	Low-temperature reduction of Graphene Oxide by atmospheric pressure hydrogen plasma

05. Plasma diagnostics

P01-05-01	Pavel Dvořák	Fluorescence measurements of atomic hydrogen radicals in active environments ignited at atmospheric pressure
P01-05-02	Xavier Aubert	Determination of boron atom density in the ground state in a H ₂ /B ₂ H ₆ microwave plasma at high pressure and high microwave power
P01-05-03	Jean-Paul Booth	Gas Temperature Measurements in Oxygen Plasmas by Doppler-Resolution Two-Photon Laser-Induced Fluorescence
P01-05-04	Nikolay Britun	Optimizing the plasma-assisted CO ₂ decomposition by microwave power modulation
P01-05-05	Nikola Cvetanovic	Spectroscopic investigation of surface dielectric barrier discharge with liquid electrodes in argon

P01-05-06	Tomáš Morávek	The study of pre-breakdown phase of coplanar dielectric barrier discharge on various surfaces
P01-05-07	Jan Voráč	Advanced spectroscopy of non-equilibrium discharges at dielectric surface

06. Plasma and discharges: theory and simulation

P01-06-01	Kostyantyn Korytchenko	Spark discharge detonation initiation models
P01-06-02	Sebastian Nemschokmichal	Simulation of laser photodeachment of negative ions in helium-oxygen barrier discharges and comparison to the experiment
P01-06-03	Haruaki Akashi	Secondary ionisation coefficient in atmospheric pressure oxygen dielectric barrier discharges
P01-06-04	Jan Čech	Residual heat contribution to the memory effect of DBD microdischarges: numerical and experimental study
P01-06-05	Aranka Derzsi	Experimental and simulation study of capacitively coupled oxygen discharges driven by tailored voltage waveforms
P01-06-06	Paola Diomede	Diffusion models for CO ₂ vibrational kinetics in low temperature plasma
P01-06-07	Nikolay Dyatko	Theoretical study of plasma parameters in a dc glow discharge and post-discharge in argon-nitrogen mixtures
P01-06-08	Jakub Hromadka	Computational study of mutual interaction of plasma sheaths in multicomponent plasma

07. Self-organization in plasmas, dusty plasmas

P01-07-01	Lev Dyachkov	Coulomb cluster confined in a cusp magnetic trap in microgravity under action of an electric field
P01-07-02	Anatoly Filippov	Electrostatic interaction of two spherical charged macroparticles in equilibrium plasmas
P01-07-03	Anatoly Filippov	Screening of microparticle charge in a humid air ionized by an external ionization source
P01-07-04	Rickard Gunnarsson	The influence of pressure and gas flow on size and morphology of titanium oxide nanoparticles synthesized in a highly ionized sputter plasma
P01-07-05	L.C.J. Heijmans	The plasma charging of deposited particles
P01-07-06	Dmitry Kalanov	Resonance radiation transport in the contracted glow discharge in argon: modelling and experiment

08. Upper atmospheric plasmas and space plasmas

P01-08-01	Mustafa Selim	Ion-acoustic waves in plasma with a q-nonextensive nonthermal electron velocity distribution
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09. Low pressure plasma sources

P01-09-01	Kostiantyn Achkasov	Plasma generation using solid state microwave technology: design and performance of ECR- and collisional-type plasma sources in matrix configuration
P01-09-02	Shishpanov Alexander	Effect of illumination by visible-spectrum light on the breakdown in long discharge tubes
P01-09-03	Mark Bowden	Mode structure of a cylindrically-symmetric Transparent Cathode Discharge
P01-09-04	Mark Bowden	Comparison of neutralising sources for neutral beam etching

10. High pressure plasma sources

P01-10-01	Declan Diver	Air discharge plasmas used in remote treatment of Salmonella Enteridis in liquid droplets
P01-10-02	Ladislav Moravský	Interaction of negative corona discharge in air with water
P01-10-03	Nevena Puač	Influence of third metal electrode on dielectric barrier helium plasma jet at atmospheric pressure
P01-10-04	Matus Samel	Non-radioactive source of electrons at atmospheric pressure
P01-10-05	Zlata Tučeková	Field enhancement in triple point of Diffuse Coplanar Surface Barrier Discharge electrode system

11. Plasma and gas flows

P01-11-01	Dmitrii Kuznetsov	Plasma-chemical conversion of carbon disulphide by pulsed corona discharge in a gas flow
P01-11-02	Gustavo Simiema de Freitas Barbosa	Creation and evaluation of construction guidelines using CFD for low pressure plasma gas feed-in systems to homogenize the precursor gas flow
P01-11-03	Alasdair Wilson	Ionization fronts in a non-linear gas-MHD plasma interactions code

12. Laser produced plasmas

P01-12-01	Karima Annou	Generation of magneto-acoustic waves by laser-plasma interaction
P01-12-02	Mohamed Khedr	Spectral characteristics of fragmentation of kidney stones by laser induced shock wave