

PROGRAM

MONDAY, 18 SEPTEMBER

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| 9:50 | OFFICIAL OPENING | |
| 10:00 – 11:15 | PLENARY SESSION 1 <i>Chairman: H. Kersten</i> | Title of the lecture |
| 10:00 | TL-1 J. Beckers | Photodetachment for anions and particle (de-) charging diagnostics in low pressure nanodusty plasmas |
| 10:45 | PR-1 N. Nedyalkov | Laser processing of ceramics and glass - some new aspects |
| 11:15 – 11:35 | COFFEE BREAK | |
| 11:35 – 12:55 | PLENARY SESSION 2 <i>Chairman: P. Hovsepian</i> | Title of the lecture |
| 11:35 | PR-2 T. Babeva | Wet process preparation of ZnO thin films for sensing applications |
| 12:05 | PR-3 H. Kersten | Cleaning and surface treatment of daguerreotypes with plasma methods |
| 12:35 | OP-1 J. Schleitzer | Langmuir probe measurements in a dual-frequency capacitively coupled rf discharge |
| 13:00 | LUNCH | |
| 16:00 – 17:20 | PLENARY SESSION 3 <i>Chairman: J. Beckers</i> | Title of the lecture |
| 16:00 | PR-4 M. Babij | Influence of annealing conditions on the structure and critical parameters of MgB₂ superconducting wires made by CTFE method and future approach for the PIT technique |
| 16:30 | PR-5 R. Tomov | Vacuum deposited composite electrodes for next generation Li ion batteries |
| 17:00 | OP-2 D. Delibaltov | Investigation of ALD window for iron oxide films obtained by ferrocene and ozone |
| 17:20 – 17:40 | COFFEE BREAK | |
| 17:30-19:00 | POSTER SESSION A | Thin films deposition. Coatings for advanced applications. |
| 20:00 | WELCOME PARTY | |

TUESDAY, 19 SEPTEMBER

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| 10:00 – 11:15 | PLENARY SESSION 4 <i>Chairman: N. Nedyalkov</i> | Title of the lecture |
| 10:00 | TL-2 H. Kersten | Non-conventional diagnostics for the investigation of atmospheric pressure discharges |
| 10:45 | PR-6 V. Schneider | Microparticles as probes for plasma diagnostics |

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| 11:15 – 11:35 | COFFEE BREAK | |
| 11:35 – 12:55 | PLENARY SESSION 5 <i>Chairman: V. Schneider</i> | Title of the lecture |
| 11:35 | PR-7 T. Trottenberg | Diagnostics for electric spacecraft propulsion systems: in space and on ground |
| 12:05 | PR-8 P. Baroch | Magnetron sputtering technology – from the basics to the advanced concepts |
| 12:35 | OP-3 K. Jurik | Combined analysis of an RF plasma source |
| 13:00 | LUNCH | |
| 16:00 – 16:50 | PLENARY SESSION 6 <i>Chairman: A. Ehiasariana</i> | Title of the lecture |
| 16:00 | PR-9 N. Skoro | Diagnostics of plan parallel and asymmetrical plasma reactors used for treatment of both textile and biological samples |
| 16:30 | OP-4 K. Bogar | Capabilities and applications of Neutral Particle Analyzers in fusion research |
| 16:50 – 17:10 | COFFEE BREAK | |
| 17:10 – 19:00 | POSTER SESSION B | New materials. Plasma-surface interaction and plasma diagnostics. Green technologies. Modeling and computer simulation |

WEDNESDAY, 20 SEPTEMBER

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| 10:00 – 11:15 | PLENARY SESSION 7 <i>Chairman: Z. Petrovic</i> | Title of the lecture |
| 10:00 | TL-3 P. Petrov | CMOS compatible deposition and nanostructuring of transition-metal nitride and oxide thin films for plasmonic applications |
| 10:45 | PR-10 P. Hovsepian | A novel plasma nitriding process utilising HIPIMS discharge for enhanced tribological and barrier properties of medical grade alloy surfaces |
| 11:15 – 11:35 | COFFEE BREAK | |
| 11:35 – 12:55 | PLENARY SESSION 8 <i>Chairman: P. Baroch</i> | Title of the lecture |
| 11:35 | PR-11 A. Ehiasariana | Towards Creation of a Digital Twin of the Plasma Synthesis of Functional Materials by High Power Impulse Magnetron Sputtering and Other PVD Processes |
| 12:05 | PR-12 G. van Rooij | Methane plasma chemistry to aid the energy and materials transition in the process industry |
| 12:35 | OP-5 K. Esmeryan | Effects of hydrophobic soot nanoparticles on the motility, oxidative stress and acrosome status of human spermatozoa |
| 13:00 | LUNCH | |

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| 16:00 – 17:10 | PLENARY SESSION 9 <i>Chairman: I. Ganachev</i> | Title of the lecture |
| 16:00 | PR-13 P. Viegas | Surface kinetics of oxygen species in glow discharge plasmas |
| 16:30 | OP-6 Y. Fedchenko | Passive protection of concrete surfaces via superhydrophobic carbon soot coatings |
| 16:50 | OP-7 G. Marinov | Arc plasma hydrocarbon decomposition |
| 17:10 – 17:30 | COFFEE BREAK | |
| 17:30 – 19:00 | POSTER SESSION C | Surfaces and thin films processing and analysis |

THURSDAY, 21 SEPTEMBER

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| 10:00 – 11:15 | PLENARY SESSION 10 <i>Chairman: P. Petrov</i> | Title of the lecture |
| 10:00 | TL-4 M. Froehlich | On the principles of plasma electrolytic polishing |
| 10:45 | PR-14 J. Dewalque | Controlled porosity for enhanced properties in wet-coated photovoltaic thin films |
| 11:15 – 11:35 | COFFEE BREAK | |
| 11:35 – 12:55 | PLENARY SESSION 11 <i>Chairman: P. Viegas</i> | Title of the lecture |
| 11:35 | PR-15 I. Ganachev | On the linearity of low-pressure surface-wave discharges |
| 12:05 | PR-16 T. Gyergyek | Three-fluid model of potential formation in front of a negative electrode |
| 12:35 | OP-8 O. Jovanovic | Liquid treatments by atmospheric pressure plasma pin-jet |
| 13:00 | LUNCH | |
| 14:00 | EXCURSION | |
| 20:00 | OFFICIAL DINNER | |

FRIDAY, 22 SEPTEMBER

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| 10:00 – 11:15 | PLENARY SESSION 12 <i>Chairman: M. Froehlich</i> | Title of the lecture |
| 10:00 | TL-5 Z. Petrovic | Physics of non-equilibrium collisional plasmas: kinetic phenomena and their effect on real world applications |
| 10:45 | PR-17 B. Mitu | Atmospheric pressure plasma utilization for surface processing |
| 11:15 – 11:35 | COFFEE BREAK | |
| 11:35 – 13:05 | PLENARY SESSION 13 <i>Chairman: B. Mitu</i> | Title of the lecture |
| 11:35 | PR-18 K. Krezhov | Characterization of magnetoelectric multiferroics by neutron diffraction |

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| 12:05 | PR-19 J. Gunn | Langmuir probes measurements in the WEST tokamak |
| 12:35 | PR-20 M. Dimitrova | Grounded current influence of the sheath heat transmission coefficient determined by swept Langmuir probes in the COMPASS tokamak divertor |
| 13:05 | CLOSING | |
| 13:15 | LUNCH | |