



Date	Venue	Time	Event	
September 11	Panorama	9.00-12.15	Registration (Lobby)	
		09.00-10.30/10.45	Oral Session OS-1-4, Section 1 (Hall A) (till 10.30)	Oral Session OS-2-4, Section 2 (Hall B) (till 10.45)
		10.30/10.45-10.45/11.00	Coffee break	
		10.45/11.00-12.15	Oral Session OS-1-5, Section 1 (Hall A) (from 10.45)	Oral Session OS-3-4, Section 3 (Hall B) (from 11.00)
		12.15-13.15	Lunch	
	Mariinsk	13.15-18.00	Excursion	
		18.00	Gala Dinner	



Hall A

Section 1.

Fundamental processes in low-temperature plasma: low and high pressure discharges, near-electrode phenomena, radiation, ultrafast processes, diagnostics.

9.00-10.30	Oral Session (OS-1-4).	Chairman: <u>Vladimir A. Yamshchikov</u>
------------	------------------------	--

1	Invited report	<p>Features of high-voltage nanosecond discharge in gaps with highly inhomogeneous distribution of electric field filled with dense media</p> <p><u>Dmitry A. Sorokin</u>, D.V. Beloplotov, B. Zaytsev Institute of High Current Electronics SB RAS, Tomsk, Russia</p>
2	Oral	<p>The systems based on high-current non-self-sustained low-pressure glow discharge with a hollow cathode for generation of beam-plasma formations</p> <p><u>Vladimir V. Denisov</u>, T.V. Koval, N.N. Koval, E.V. Ostroverkhov, M.V. Savchuk, S.S. Kovalsky, V.V. Yakovlev, A.O. Egrov Institute of High Current Electronics SB RAS, Tomsk, Russia</p>
3	Oral	<p>Operation features of a planar magnetron discharge forming emission plasma in a pulsed forevacuum plasma-cathode electron-beam source</p> <p><u>Andrey V. Kazakov</u>, V.E. Arkatov, Y.A. Burachevsky, E.M. Oks, N.A. Panchenko Tomsk State University of Control Systems and Radioelectronics, Tomsk, Russia</p>
4	Oral	<p>Utilizing ionization region model to interpret the ion flux measurement results in HiPIMS plasma with a tungsten target</p> <p><u>Gleb S. Lomonosov</u>, D.V. Kolodko, A.V. Tumarkin, M.M. Kharkov, A.V. Kaziev National Research Nuclear University, Moscow, Russia</p>



Hall A

Section 1.

Fundamental processes in low-temperature plasma: low and high pressure discharges, near-electrode phenomena, radiation, ultrafast processes, diagnostics.

10.45-12.15	Oral Session (OS-1-5).	Chairman: <u>Dmitry A. Sorokin</u>
-------------	------------------------	---

1	Invited report	<p>Diagnostics of the process of plasma mass separation in configuration with potential well <i>Ravil A. Usmanov, A.V. Gavrikov, N.N. Antonov, A.P. Oiler, R.A. Timirkhanov, V.P. Smirnov</i> Joint Institute for High Temperatures RAS, Moscow, Russia</p>
2	Oral	<p>Establishment of stationary diffuse mode in vacuum arc discharge <i>Mikhail S. Paramonov, A. D. Melnikov, A. I. Belostotsky, R. A. Usmanov, N. N. Antonov, A. V. Gavrikov</i> Joint Institute for High Temperatures RAS, Moscow, Russia</p>
3	Oral	<p>Diffuse vacuum arc on nonthermionic chromium cathode in axial magnetic field <i>Artemii I. Belostotskij, A.D. Melnikov, M.S. Paramonov, R.A. Usmanov, N.N. Antonov, A.V. Gavrikov, V.P. Smirnov</i> Joint Institute for High Temperatures RAS, Moscow, Russia</p>
4	Oral	<p>Influence of axial and radial plasma density distributions on the characteristics of a plasma antenna <i>Vyacheslav P. Stepin, V.I. Zhukov, S.E. Andreev, N.N. Bogachev</i> Prokhorov General Physics Institute of the Russian Academy of Sciences, Moscow, Russia</p>



Hall B

Section 2.

Gas-discharge methods for surface modification and coating deposition: surface modification, ion implantation, combined methods of surface treatment, neutron and synchrotron methods of diagnostics.

9.00-10.45	Oral Session (OS-2-4).	Chairman: <u>Denis B. Zolotukhin</u>
------------	------------------------	--------------------------------------

1	Invited report	<p>Surface finishing of 17-4PH steel components for biomedical applications made by binder jetting. A comparison between mass finishing and vacuum plasma techniques <i>Massimiliano Bestetti, A.L. Huspek, M. Pozzi, M. Mariani, N. Lecis</i> Politecnico di Milano Tomsk Polytechnic University, Milano, Italy</p>
2	Oral	<p>Plasma modification of the polytetrafluoroethylene surface for medical purpose <i>Olesya A. Laput, A.G. Korzhova, Y.H. Akhmadeev, I.A. Kurzina</i> National Research Tomsk State University, Tomsk, Russia</p>
3	Oral	<p>Effect of glow discharge nitrogen plasma on the physico-chemical properties of the PCL-based 3D-scaffolds surface <i>Ulyana V. Khomutova, O.A. Laput, D.A. Zuzva, I.A. Kurzina</i> Institute of High Current Electronics SB RAS, Tomsk, Russia</p>
4	Oral	<p>Improving hybrid perovskites stability for solar cells application in space by using molecular modifiers <i>Ivan S. Zhidkov, V.V. Ozerova, M.N. Saruchev, L.A. Frolova, E.Z. Kurmaev, A.I. Kukhareenko, P.A. Troshin</i> Ural Federal University, Ekaterinburg, Russia</p>
5	Oral	<p>Investigation of rotating DBD plasma treatment for improved surface properties in EP/AIN composites <i>Fu Yongqiang, Yu Guanglin, Li Jie, Jiang Nan</i> Dalian University of Technology, Dalian, China</p>

September 11 (Thursday)



Hall B

Section 3.

Plasma-chemical, electrophysical and laser technologies: environmental applications, production of nanopowders and functional materials.

11.00-12.15

Oral Session (OS-3-4).

Chairman: Ivan I. Shanenkov

1	Invited report	Features of a non-equilibrium atmospheric pressure discharge sustained by continuous sub-terahertz radiation <i>Sergey V. Sintsov, A.V. Vodopyanov, A.P. Veselov, A.V. Sidorov, E.I. Preobrazhenskiy, A.P. Fokin, D.A. Sergeev, I.M. Kraev, A.A. Murzanev, M.Y. Glyavin</i> Federal Research Center A.V. Gaponov-Grekhov Institute of Applied Physics of the Russian Academy of Sciences, Nizhny Novgorod, Russia
2	Oral	Ribbon electron beam for generation of beam plasma and beam-plasma treatment of polymers in the pressure range of 0.1-10 Pa <i>Aleksandr S. Klimov, J.E. Dagri, A.V. Dolgova, A.A.Zenin, E.M. Oks</i> Tomsk state university of control systems and radioelectronics, Tomsk, Russia
3	Oral	Dynamics of a microsphere with a double-layered shell in a polymer matrix under the action of a shock wave <i>Dmitry S. Boykov</i> Keldysh Institute of Applied Mathematics of Russian Academy of Sciences, Moscow, Russia