



Date	Venue	Time	Event	
September 12	Panorama	10.00-18.00	Registration (Lobby)	
		10.00-11.25	Oral Session OS-1-6, Section 1 (Hall A)	Oral Session OS-2-5, Section 2 (Hall B)
		11.25-11.40	Coffee break	
		11.40-13.00	Oral Session OS-1-7, Section 1 (Hall A)	Oral Session OS-2-6, Section 2 (Hall B)
		13.00-14.00	Lunch	
		14.00-16.00	Oral Session OS-1-8, Section 1 (Hall A)	Oral Session OS-2-7, Section 2 (Hall B)
		16.00-16.15	Coffee break	
		16.15-17.45	Oral Session OS-1-9, Section 1 (Hall A)	Oral Session OS-2-8, Section 2 (Hall B)
		17.45-18.00	Closing ceremony	



Hall A

Section 1.

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

10.00-11.25

Oral Session (OS-1-6).

Chairman: Olga N. Tchaikovskaya

1	Invited report	<p>Estimates of the energy of a magnetized bunch of runaway electrons by the time-of-flight method and from its microwave radiation <u>Michael I. Yalandin</u>, L. N. Lobanov, K. A. Sharypov, S. A. Shunailov, N. M. Zubarev Institute of Electrophysics UB RAS, Ekaterinburg, Russia</p>
2	Oral	<p>Analysis of plasma dynamics in an alternating current hydrogen plasma torch at atmospheric pressure <u>Yulia D. Dudnik</u>, <u>N.V. Obraztsov</u>, A.A. Safronov, N.Y. Bykov, V.N. Shiryayev, A.V.Surov, O.B. Vasilieva Institute for Electrophysics and Electric Power RAS, St. Petersburg, Russia</p>
3	Oral	<p>The influence of runaway electrons on the energy characteristics of self-sustained subnanosecond discharge in hydrogen <u>Stepan N. Ivanov</u>, V.V. Lisenkov Institute of Electrophysics UB RAS, Ekaterinburg, Russia</p>
4	Oral	<p>Self-oscillatory secondary emission discharge and its applications <u>Ivan A. Sorokin</u> Kotelnikov Institute of Radio Engineering and Electronics (Fryazino Branch), Russian Academy of Sciences, Moscow, Russia</p>

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Hall A

Section 1.

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

11.40-13.00

Oral Session (OS-1-7).

Chairman: Stepan N. Ivanov

1	Oral	Bases for applying the LTE model to evaluate the state of plasma in an arcjet thruster <u>Vladimir I. Gorbunkov</u> Omsk State Technical University, Omsk, Russia
2	Oral	Spectral energy characteristics' study of coaxial ablative pulsed plasma accelerator <u>Daria S. Pasyukova, D.E. Polevoy, D.A. Gololobov, V.D. Telekh</u> Bauman Moscow State Technical University, Moscow, Russia
3	Oral	Numerical study of geometric errors in quarter-spherical energy analyzers for plasma flow diagnostics in electrodeless thruster <u>Aleksandra S. Aksenova, D.V. Kolodko, M.S. Novikov, A.V. Tumarkin, M.M. Kharkov, A.V. Kaziev</u> Institute of Radio Engineering and Electronics, Fryazino branch. Russian Academy of Sciences, Moscow, Russia
4	Oral	Investigation of electrical current in jet based on glow discharge <u>Vitaly O. Nekhoroshev, N.V. Landl, A.V. Bolotov, Y.D. Korolev, O.B. Frants, V.G. Geyman</u> Institute of High Current Electronics SB RAS, Tomsk, Russia



Hall A

Section 1.

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

14.00-16.00

Oral Session (OS-1-8).

Chairman: Vasilii V. Lisenkov

1	Oral	<p>Patterns of generation of emission beam-plasma formation in a hollow cathode of a non-self-sustained glow discharge</p> <p><u>Artem O. Egorov</u>, V.V. Denisov, S.S. Kovalskiy, E.V. Ostroverchov, V.V. Yakovlev, A.D. Teresov Institute of High Current Electronics SB RAS, Tomsk, Russia</p>
2	Oral	<p>Patterns of generation of extended gas-metal beam-plasma formations</p> <p><u>Michail V. Savchuk</u>, V.V. Denisov, S.S. Kovalskiy, A.A. Leonov Institute of High Current Electronics SB RAS, Tomsk, Russia</p>
3	Oral	<p>Extended hollow cylindrical grid electron emitter based on low pressure arc discharge</p> <p><u>Evgeniy V. Ostroverkhov</u>, V. V. Denisov, S. S. Kovalskiy, V.V. Krivshenko Institute of High Current Electronics SB RAS, Tomsk, Russia</p>
4	Oral	<p>Reduction of azimuthal inhomogeneity of a radially converging electron beam in a grid plasma cathode source</p> <p><u>Maksim S. Torba</u>, S. Yu. Doroshkevich, M.S. Vorobyov, A.A. Grishkov, N.N. Koval, M.G. Volis Institute of High Current Electronics SB RAS, Tomsk, Russia</p>
5	Oral	<p>Competing types of electron emission in a grid plasma emitter based on a low-pressure arc</p> <p><u>Ruslan A. Kartavtsov</u>, M.A. Mokeev, M S. Vorobyov, A.A. Grishkov, N.N. Koval, S.Y. Doroshkevich, P.V. Moskvina, D.A. Gorkovskaya Institute of High Current Electronics SB RAS, Tomsk, Russia</p>
6	Oral	<p>Plasma emission spectrum formed during microprotrusion explosion</p> <p><u>Evgeny V. Oreshkin</u> P.N. Lebedev Physical Institute of the Russian Academy of Sciences, 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.

16.15-17.45

Oral Session (OS-1-9).

Chairman: Viktor.L. Paperny

1	Oral	<p>Kinetics and dynamics of runaway electrons in gas diodes with conical cathodes</p> <p><u>Nikolay M. Zubarev</u>, A.V. Kozyrev, N.S. Semeniuk, M.I. Yalandin, O.V. Zubareva Institute of Electrophysics UB RAS, Ekaterinburg, Russia</p>
2	Oral	<p>The study of ion-electron emission and sputtering of perspective materials for the inertial electrostatic confinement fusion device cathode</p> <p><u>Ekaterina D. Zyablitseva</u>, I.A. Prokuratov, Yu.V. Mikhailov, A.S. Bakulina Dukhov Automatics Research Institute, Moscow, Russia</p>
3	Oral	<p>Effect of the magnetic field on the structure of the penning ion source discharge</p> <p><u>Artemy E. Kolobov</u>, S.V. Syromukov Dukhov Automatics Research Institute, Moscow, Russia</p>
4	Oral	<p>Investigation of the regularity of plasma generation inside extended metal cavities for ion-plasma treatment</p> <p><u>Danil Yu. Ignatov</u> Institute of High Current Electronics SB RAS, Tomsk, Russia</p>

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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.

10.00-11.25	Oral Session (OS-2-5).	Chairman: Alexander S. Kamenetskikh
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1	Oral	High-rate deposition of Zn thin films from a cluster plasma of a low-pressure arc <i>Daniil R. Emlin, N.V. Gavrilov</i> Institute of Electrophysics UB RAS, Ekaterinburg, Russia
2	Oral	Application of boron carbide coatings by pulsed electron beam evaporation <i>Dmitry A. Shpanov, M.S. Vorobyov, R.A. Kartavtsov, S.Yu. Doroshkevich, E.A. Petrikova</i> Institute of High Current Electronics SB RAS, Tomsk, Russia
3	Oral	Nitride vacuum-arc coatings to increase wear resistance of Cr12MoV die steel <i>Andrey A. Leonov, Yu.A. Denisova, V.V. Denisov, V.M. Savostikov, M.V. Savchuk, V.N. Tishchenko</i> Institute of High Current Electronics SB RAS, Tomsk, Russia
4	Oral	Application of assisting action of gas discharge plasma generated by an autonomous source for the formation of layers and antifriction coatings with vacuum-arc evaporation of SHS cathodes Ti-C-Mo-S <i>Viktor M. Savostikov, A.A. Leonov, V.V. Denisov, Yu.A. Denisova, M.A. Khimich, M.S. Syrtanov</i> Institute of High Current Electronics SB RAS, Tomsk, Russia

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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.

11.40-13.00	Oral Session (OS-2-6).	Chairman: <i>to be announced</i>
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1	Oral	Investigation of the properties of coatings based on the aluminum oxide system obtained by vacuum arc deposition method <i>Angela A. Tulina, A.Yu. Nazarov, K.N. Ramazanov</i> Ufa University Of Science and Technology, Ufa, Russia
2	Oral	Study of temperature dynamics on the target surface under the influence of a pulsed electron beam of sub-millisecond duration <i>Anton D. Teresov, T.V. Koval, P.V. Moskvin</i> Institute of High Current Electronics SB RAS, Tomsk, Russia
3	Oral	Effect of gas pressure on heating of nonconducting materials during their electron beam treatment <i>Aleksandr S. Klimov, I.Yu. Bakeev, A.A.Zenin, E.M. Oks</i> Tomsk state university of control systems and radioelectronics, Tomsk, Russia
4	Oral	The impact of the treatment method on the appearance of a surface alloy created through pulsed electron beam synthesis <i>Evgeniy A. Pesterev, E.V. Yakovlev, V.I. Petrov, A.V. Solovyov, A.B. Markov</i> Tomsk Scientific Center of the Siberian Branch of the Russian Academy of Sciences, Tomsk, Russia

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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.

14.00-16.00	Oral Session (OS-2-7).	Chairman: <i>to be announced</i>
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1	Oral	Effect of titanium content on the structure and properties of boride coatings <u>Elisaveta O. Kraynova</u> , A.S. Grenadyorov, K.V. Oskomov, N.E. Madzhara, A.N. Zakharov, A.A. Solovyev Institute of High Current Electronics SB RAS, Tomsk, Russia
2	Oral	Growth and characterization of W layers co-deposited in HiPIMS discharge in H₂/He/Ar mixtures <u>Gleb S. Lomonosov</u> , D.V. Kolodko, A.V. Tumarkin, M.M. Kharkov, A.V. Kaziev National Research Nuclear University, Moscow, Russia
3	Oral	Hydrogenated carbon coatings with silicon and oxygen, alloyed with metals <u>Nikita E. Madzhara</u> , A.S. Grenadyorov, A.A. Solovyev Institute of High Current Electronics SB RAS, Tomsk, Russia
4	Oral	Properties of organosilicon coatings remotely deposited from glow discharge in argon and hexamethyldisiloxane mixture flow <u>Daniil A. Zuza</u> , V.O. Nekhoroshev, A.G. Korzhova, A.N. Gorbunov Institute of High Current Electronics SB RAS, Tomsk, Russia
5	Oral	Study of the Ni – 13.9 wt. % W alloy annealing possibility using ion-beam treatment <u>Konstantin V. Shalomov</u> , N.V. Gushchina, V.V. Ovchinnikov, I.V. Gervasyeva, V.I. Voronin Institute of Electrophysics UB RAS, Ekaterinburg, Russia
6	Oral	Investigation of low-energy light ion sputtering of tungsten films in the linear plasma device with a beam plasma <u>Nikita S. Sergeev</u> , Yu. Gasparyan National Research Nuclear University, Moscow, Russia

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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.

16.15-17.45	Oral Session (OS-2-8).	Chairman: <i>to be announced</i>
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1	Oral	Diffuse and microchannel forms of high-voltage nanosecond discharge in dense gases <i>Mikhail I. Lomaev, D.V. Beloplotov, D.A. Sorokin</i> Institute of High Current Electronics SB RAS, Tomsk, Russia
2	Oral	Combined control of electron beam power in an electron source with a multi-arc grid plasma cathode <i>Maksim A. Mokeev, V.N. Devyatkov, D.A. Gorkovskaia, M.S. Vorobyov, N.N. Koval, P.V. Moskvina</i> Institute of High Current Electronics SB RAS, Tomsk, Russia
3	Oral	Methods of implementing stable modes of electron beam generation in a source with a plasma cathode <i>Diana A. Gorkovskaia, M.S. Vorobyov, M.A. Mokeev, V.N. Devyatkov, A.A. Grishkov, S. Yu. Doroshkevich</i> Institute of High Current Electronics SB RAS, Tomsk, Russia
4	Oral	Change in the microrelief of the surface of the polypropylene activated in low-temperature atmospheric pressure plasma <i>Kirill A. Demin, S.S. Agnaev, S.D. Dondukov, A.N. Khagleev, A.P. Semenov</i> Institute of Physical Materials Science SB RAS, Ulan-Ude, Russia