

Hall A

Section 1.



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

9.00-10.10	Oral Session (OS-1-3).	Chairman: <i>Alexandr I. Lipchak</i>
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1	Invited report 9.00-9.30	<p>Nanosecond breakdown in a pulsed open discharge <i>Pavel P. Gugin, P. Bokhan, D.E. Zakrevsky, N.A. Glubokov</i> Institute of Semiconductor Physics SB RAS, Novosibirsk, Russia</p>
2	Oral 9.30-9.50	<p>Runaway of electrons and initiation of explosive electron emission during pulse breakdown of dense gases <i>G.A. Mesyats, Nikolay M. Zubarev</i> Institute of Electrophysics UB RAS, Ekaterinburg, Russia</p>
3	Oral 9.50-10.10	<p>A source of powerful subnanosecond VUV-UV radiation pulses based on a high-pressure gas discharge <i>V.I. Baryshnikov, Viktor L. Paperny</i> Irkutsk State University, Irkutsk, Russia</p>



Hall A

Section 4.

Sources of low-temperature plasma: generators of continuous, pulse-periodic and pulsed action, gas switches, power supply.

10.30-12.00

Oral Session (OS-4-3).

Chairman: *Mikhail M. Tsventoukh*

1	Invited report 10.30-11.00	<p>Cold plasma source based on the apokampic discharge in atmospheric-pressure air</p> <p><u><i>Dmitry A. Sorokin</i></u>, <i>V.A. Panarin, E.A. Sosnin, V.S. Kuznetsov, V.S. Skakun</i> Institute of High Current Electronics SB RAS, Tomsk, Russia</p>
2	Oral 11.00-11.20	<p>Wide radiation bands of sub-nanosecond discharge in xenon and inaccuracies in their measurements</p> <p><u><i>Victor F. Tarasenko</i></u>, <i>A.N. Panchenko, D.V. Beloplotov, D.A. Sorokin, M.I. Lomaev, V.V. Kozevnikov</i> Institute of High-Current Electronics SB RAS, Tomsk, Russia</p>
3	Oral 11.20-11.40	<p>Methods for increasing the electrical breakdown strength of the accelerating gap in an electron source with a plasma cathode</p> <p><u><i>Pavel V. Moskvina</i></u>, <i>V.N. Devyatkov, I.V. Lopatin, V.I. Shin</i> Institute of High Current Electronics SB RAS, Tomsk, Russia</p>
4	Oral 11.40-12.00	<p>Features of plasma generation in a pulsed mode of a non-self-sustained arc discharge</p> <p><u><i>Sergey S. Kovalsky</i></u>, <i>V.V. Denisov, E.V. Ostroverkhov, V.E. Prokop'ev</i> Institute of High Current Electronics SB RAS, Tomsk, Russia</p>



Hall B

Section 2.

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

09.00-10.10	Oral Session (OS-2-3).	Chairman: <i>Olga V. Krygina</i>
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1	Invited report 9.00-9.30	Application of composite SHS-cathodes in recent PVD technologies for manufacturing of protective UHTC-based coatings <i>Philipp Kiryukhantsev-Korneev, E. Levashov</i> National University of Science and Technology "MISIS", Moscow, Russia
2	Oral 9.30-9.50	Deposition of Al₂O₃ coatings in Ar-O₂ low-pressure discharge plasma under a high dissociation degree of O₂ <i>P.V. Tretnikov, N.V. Gavrilov, Alexandr S. Kamenetskikh, S.V. Krivoshapko, A.V. Chukin</i> Institute of Electrophysics UB RAS, Ekaterinburg, Russia
3	Oral 9.50-10.10	Structural and phase dependencies of coatings formation based on intermetallides Ti-Al systems for increasing the durability of cutting tools <i>Eduard L. Vardanyan, K.N. Ramazanov, A.Yu. Nazaraov, R.Sh. Najimov, A.A. Maslov</i> Ufa State Aviation Technical University, Ufa, Russia



Hall B

Section 3.

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

10.30-12.00	Oral Session (OS-3-3).	Chairman: <i>Egor V. Tikhonov</i>
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1	Invited report 10.30-11.05	Features of the gas-phase synthesis of oxide nanopowders using high-power lasers <i>V.V. Osipov, V.V. Lisenkov, Vyacheslav V. Platonov, E.V. Tikhonov</i> Institute of Electrophysics UB RAS, Ekaterinburg, Russia
2	Oral 11.05-11.30	Impulse laser application for surface modification of tool steel with B₄C-Al powders <i>Undrakh L. Mishigdorzhijn, N.S. Ulakhanov, A.V. Nomoev</i> Institute of Physical Materials Science SB RAS, Ulan-Ude, Russia
3	Oral 11.30-11.55	Droplets generation conducting during laser-plasma treating of metals in electric field <i>Alexey Yu. Ivanov, A.L. Sitkevich, S.V. Vasiliev</i> Grodno State University named after Yanka Kupala, Grodno, Belarus

Poster Session



September 8 (Wednesday) – IEP

Section 1.

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

14.00-15.30

Poster Session (P-1).

Chairman: *Dmitry L. Shmelev*

Section 4.

Sources of low-temperature plasma: generators of continuous, pulse-periodic and pulsed action, gas switches, power supply.

14.00-15.30

Poster Session (P-4).

Chairman: *Dmitry L. Shmelev*

Section 2.

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

15.30-17.00

Poster Session (P-2).

Chairman: *Dmitry L. Shmelev*

Section 3.

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

15.30-17.00

Poster Session (P-3).

Chairman: *Dmitry L. Shmelev*