



Date	Venue	Time	Event		
September 10	Panorama	9.00-12.15	Registration (Lobby)		
		09.00-10.35	Oral Session OS-1-3, Section 1 (Hall A)	Oral Session OS-2-3, Section 2 (Hall B)	
		10.35-10.50	Coffee break		
		10.50-12.15	Oral Session OS-4-3, Section 4 (Hall A)	Oral Session OS-3-3, Section 3 (Hall B)	
		12.15-13.15	Lunch		
		13.15	Transfer to IEP		
	IEP	14.00-15.30	Poster Session, Sections 1 and 4 (IEP)	IEP excursion for Sections 2 and 3	
		15.30-17.00	Poster Session, Sections 2 and 3 (IEP)	IEP excursion for Sections 1 and 4	

September 10 (Wednesday)



Hall A

Section 1.

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

9.00-10.35

Oral Session (OS-1-3).

Chairman: Yuri S. Akishev

1	Invited report	Breakdown mechanisms matching in the composite plasma switcher <i>Pavel P. Gugin, P.A. Bokhan, M.A. Lavrukhin, D.E. Zakrevsky</i> Rzhanov Institute of Semiconductor Physics Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia
2	Oral	Investigation of subnanosecond breakdown in slit discharge <i>Maxim A. Lavrukhin, P.A. Bokhan, P.P. Gugin, G.V. Shevchenko, D.E. Zakrevsky</i> Rzhanov Institute of Semiconductor Physics Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia
3	Oral	High voltage subnanosecond switching scenario in plasma device eptron combing open and capillary discharges <i>Irina Schweigert, P. Bokhan, Pavel P. Gugin, M. Lavrukhin, D. Zakrevsky</i> Khristianovich Institute of Theoretical and Applied Mechanics, Russia
4	Oral	Metal particles in atmospheric pressure glow discharge plasma: generation, formation of flows, optical emission <i>Konstantin P. Savkin, D.A. Sorokin, D.V. Beloplotov, A.G. Nikolaev, M.V. Shandrikov, A.A. Cherkasov</i> Institute of High Current Electronics SB RAS, Tomsk, Russia

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Hall A

Section 4.

Power supply for researches and applications: generators of continuous, pulse-periodic and pulsed action, gas switches, pulsed power machines and accelerators.

10.50-12.15

Oral Session (OS-4-3).

Chairman: **Sergey V. Ryzhkov**

1	Invited report	Radiation magnetic gas dynamics simulation of plasma jets <u>Olga G. Olkhovskaya</u> Keldysh Institute of Applied Mathematics of Russian Academy of Sciences , Moscow, Russia
2	Oral	On the modeling of plasma jet dynamics in laboratory experiments with a pulsed source <u>Vladimir A. Gasilov, N.O. Savenko, E.M. Urvachev, A.S. Grushin, T.V. Loseva, Yu.V. Poklad</u> Institute of Applied Mathematics RAS, Moscow, Russia
3	Oral	Optimization of the high energy switches for synchronization of multiple plasma focus devices <u>Kameel Arshad, U. Sarwar, Aman-Ur-Rehman</u> Pakistan Institute of Engineering and Applied Science, Islamabad, Pakistan
4	Oral	Source of powerful nanosecond radiation pulses of a wide spectral range based on a high-current volume discharge in xenon <u>Viktor.L. Paperny, V.I. Baryshnikov</u> Irkutsk State University, Irkutsk, 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.

9.00-10.35	Oral Session (OS-2-3).	Chairman: <u>Nikolay N. Koval</u>
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1	Invited report	About the results of the project «In situ methods of synchrotron studies of multilayer functional structures with unique parameters and properties created by beam-plasma surface engineering» <i>Vladimir V. Denisov, A.D. Teresov, N.N. Koval, N.A. Ratakhin, A.N. Schmakov, A.A. Leonov, S.S. Kovalsky, Yu.A. Denisova, E.V. Ostroverkhov, D.Yu. Ignatov, M.V. Savchuk, M.S. Syrtanov, M.V. Andreev</i> Institute of High Current Electronics SB RAS, Tomsk, Russia
2	Oral	In-situ synchrotron X-ray diffraction study of phase evolution in Fe-Cr-Al-Zr surface alloy <i>Evgeniy V. Yakovlev, E.A. Pesterev, A.V. Schneyder, A.B. Markov</i> Tomsk Scientific Center of the Siberian Branch of the Russian Academy of Sciences, Tomsk, Russia
3	Oral	Beam-plasma modification of structural materials in the forevacuum pressure region <i>Andrey V. Tyunkov</i> Tomsk State University of Control Systems and Radioelectronics, Tomsk, Russia
4	Oral	Electron beam and ion-plasma modification of surface roughness of YSZ coatings deposited by fore-vacuum plasma-cathode electron source <i>Denis B. Zolotukhin, A.A. Andronov, A.V. Kazakov, A.V. Tyunkov, Yu.G. Yushkov</i> Tomsk State University of Control Systems and Radioelectronics, Tomsk, Russia
5	Oral	Electron beam synthesis of thermal protective ceramic coatings based on zirconium dioxide in the forevacuum pressure range <i>Artem A. Andronov, D.B. Zolotukhin, A.V. Tyunkov, Yu.G. Yushkov</i> Tomsk State University of Control Systems and Radioelectronics, Tomsk, Russia

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Hall B

Section 3.

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

10.50-12.15

Oral Session (OS-3-3).

Chairman: Olga V. Krygina

1	Invited report	Plasma dynamic synthesis optimization for enhancing the process productivity <i>Ivan I. Shanenkov, A.A. Sivkov, I.S. Zhumabaev, A.I. Tsimmerman</i> National Research Tomsk Polytechnic University, Tomsk, Russia
2	Oral	High-entropy boride synthesis by vacuum-free arc discharge plasma <i>Yuliya Z. Vassilyeva, A.Y. Pak, Z.S. Bolatova, Y.A. Neklya, A.A. Svinukhova</i> Tomsk Polytechnic University, Tomsk, Russia
3	Oral	Influence of key parameters of plasma-chemical synthesis on the properties of W-C-Co system nanopowders <i>Aleksey G. Astashov, A.V. Samokhin, D.V. Fisunov, Yu.P. Kalashnikov, A.V. Terent'ev, N.V. Alekseev, I.S. Litvinova</i> A. A. Baykov Institute of Metallurgy and Materials Science RAS, Moscow, Russian Federation, Moscow, Russia
4	Oral	Plasma arc reactor for synthesis of lanthanum hexaboride <i>Arina A. Svinukhova, A.V. Spodina</i> School of Power Ingeneering, Tomsk, Russia