Belarusian State University
of Informatics and Radioelectronics

R&D Department

Results of BSUIR participation at the International Exhibition “ExpoCoating Moscow – 2026”

October 19–21, 2026
Moscow, Russia

ExpoCoating Moscow 2026 is a leading specialised exhibition in Russia and the CIS showcasing technologies, materials and equipment for surface treatment, coating application and galvanic production.

The exhibition brought together more than 40 leading organisations and developers from Russia, Belarus and China. Their exhibits focused on electrochemical processes, automation of galvanic lines, protective and anti-corrosion coatings, as well as wastewater treatment systems and environmental safety.

At the exhibition, BSUIR presented the following developments:



A Transient Electrolysis Method for Controlling the Properties of Nickel Electrochemical Coatings. A method for controlling the composition and functional properties of multicomponent nickel electrochemical coatings based on varying the electrical operating parameters of the electrolysis bath during electrolysis.

A Method for Producing Solderable Electrochemical Coatings. A method for controlling the composition and functional properties of electrochemical tin coatings and tin–copper, tin–silver and tin–copper–ultrafine diamond alloy coatings based on varying the electrical operating parameters of the electrolysis bath during electrolysis.

IST 10-5 Dual-Channel Programmable Pulse Current Source for Industrial Applications. Used to power galvanic baths and carry out cathodic electrochemical processes using direct current,

unipolar pulsed current or bipolar pulsed current in the manufacture of microelectronic devices and industrial products

Methods for the Synthesis and Growth of Multicomponent Semiconductor Materials. These methods enable the production of polycrystals weighing up to 100 g with a high degree of structural perfection, as well as single crystals with diameters of up to 16–20 mm.

Sputtering Equipment for the Deposition of Barrier and Seed Layers. Used for vacuum deposition of thin films by means of direct current (DC) magnetron sputtering, pulsed MF sputtering, RF sputtering, reactive DC/RF sputtering and pulsed reactive magnetron sputtering.

Waveguides for Microwave Equipment. Used to transmit microwave electromagnetic energy from a generator to a load with minimal power loss.

High-Frequency Ultrasonic Disperser. Used to generate ultrasonic vibrations in liquids.

Ultrasonic Bath. Used to process liquids and pasty media in ultrasonic fields, as well as to treat solid surfaces immersed in liquids using ultrasound.

A Device for Generating Cold Atmospheric Plasma and Controlling Its Interaction with a Surface. The use of pulse-width modulation signals reduces the device's energy consumption and, in combination with diagnostic tools, enables control over the properties of the generated plasma.



During the exhibition, negotiations were held with representatives of Russian and other enterprises, including Bauman Moscow State Technical University, OJSC Minsk Plant Thermoplast and Yugreaktiv Chemical Products Base LLC, regarding potential cooperation in the field of science and technology, as well as the implementation of the above-mentioned technologies and equipment in manufacturing processes, with the possibility of adapting and further developing them to meet the technical requirements of individual customers. Following the negotiations, a list of interested organisations was compiled, specifying contact persons and areas of interest. This provides a foundation for further development of scientific and technical cooperation.


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