



**Belarusian State University
of Informatics and Radioelectronics**

R&D Department

BSUIR, 6, P. Brovki Str., Minsk 220013, Republic of Belarus

Announcement

24th International Exhibition of Industrial Technologies and Innovations “TechInnoProm”

September 28 – 30, 2021

Minsk, Belarus

About

TechInnoProm aims to promote innovative industrial equipment, products and technologies of domestic and foreign companies to regional and international markets; strengthen business contacts and exchange of experience.

The exhibition is included in the program of the Belarusian Industrial and Innovation Forum-2021.

Sections:

- Equipment, technologies and sci-tech developments for industrial production
- Innovation. Investments. Startups and venture funding
- Industrial products and services
- Organization and improvement of industrial production

BSUIR will showcase high-tech developments

1. Control and measuring microwave devices and equipment (calorimeter, signal generator, vector network analyzers, microwave power meters)

Designed for maintenance and repair of jamming stations and replacement of the outdated infrastructure of enterprises of the defense and telecommunications industry of the Republic of Belarus.

Advantages:

- a line of devices in the range from 0.01 to 220 GHz has been developed;

- application as an independent device for checking and adjusting microwave equipment and as part of automated systems when working with control from a computer via USB, RS-232;
- the generator is made on a modern element base.

The devices are included in the Registers of Measuring Instruments of the Republic of Belarus and the Russian Federation.

2. Manufacturing technology of energy-saving flat aluminum heating elements

The technology allows the production of elements with any surface shape, which is especially important in the automotive industry, in the manufacture of printing plates, as well as in the military industry.

The use of a carbon filament ensures high stability of the electrical characteristics of the heater and its reliability under constant heating-cooling cycles during operation.

Advantages:

- adjustable electrical resistance in the range from 10^{-3} to 10^7 Ohm • cm;
- maximum operating temperature up to 400 ° C;
- aluminum base;
- heating element made of carbon filament;
- ultra-thin form;
- low heat losses.

3. Technology of obtaining optical composite coatings for solar collectors

The technology makes it possible to obtain highly efficient two-component composite highly selective coatings in the composition of anodic aluminum oxide / carbon. The coatings are uniformly colored and wear resistant.

Advantages:

- resistance to ionizing radiation;
- high corrosive, heat and light resistance;
- high electrical insulating properties;
- eco-friendly electrochemical coating formation process.