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# Announcement

## International Industrial Exhibition INNOPROM

July 6 – 9, 2021

Ekaterinburg, Russian Federation

### About

INNOPROM is the major industrial, trade and export platform in the Russian Federation.

It has been held annually in Yekaterinburg since 2010.

### The main directions of the exhibition:

- industrial automation,
- metalworking,
- additive technologies,
- technologies for power engineering, mechanical engineering,
- mining and processing industry,
- robotics,
- chemical industry.

### BSUIR will showcase high-tech developments

#### 1. 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 fiber ensures high stability of the electrical characteristics of the heater and its reliability under conditions of constant heating-cooling cycles during operation.

**Benefits:**

- the capability to regulate 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 shape;
- low heat losses.

## 2. 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.

**Benefits:**

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

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