

## The delegation of the National Academy of Sciences of Belarus spent a busy working day at SPbPU

Within the framework of the visit of the delegation of the National Academy of Sciences of the Republic of Belarus (NAS RB) to the St. Petersburg Branch of the Russian Academy of Sciences (SPbPU), Peter the Great St. Petersburg Polytechnic University (SPbPU) hosted key events aimed at developing scientific and technical cooperation. The delegation was headed by Alexander Shumilin, Academician-Secretary of the Department of Physics, Mathematics and Informatics of the National Academy of Sciences of Belarus, and was attended by Mikhail Heifets, Director of the Institute of Applied Physics of the National Academy of Sciences of Belarus, and Academician Sergei Gaponenko, Director of the Institute of Physics of the National Academy of Sciences of Belarus.



Rector of SPbPU, Academician of the RAS, Chairman of the SPbB RAS Andrei Rudskoi emphasized after the working meeting with colleagues from NAS RB: Our partnership with the National Academy of Sciences of Belarus is a driver for the creation of breakthrough technologies. The joint efforts of our scientists form the scientific potential of Russia and Belarus and strengthen the technological sovereignty of the Union State.

The program of the day began with a tour of the Main Academic Building and the Museum of History of SPbPU, where the delegation got acquainted with the heritage of the university and the achievements of the famous polytechnic engineers.



The visit continued with a visit to the laboratories of the Institute of Electronics and Telecommunications (IET). During the meetings and visits to the laboratories, the points of mutual interest and topics of future joint research were identified, which will be included in the Roadmap of Cooperation that is currently being formed. One of such scientific areas is photonics, including the urgent task of developing fully domestic components.







In the laboratories of the Institute of Machinery, Materials and Transport (IMM&T) the delegation had an opportunity to see the latest developments in the field of additive technologies and powder metallurgy — including practical results of the joint project of SPbPU with the O.V. Roman Institute of Powder Metallurgy of the NAS of the Republic of Belarus.



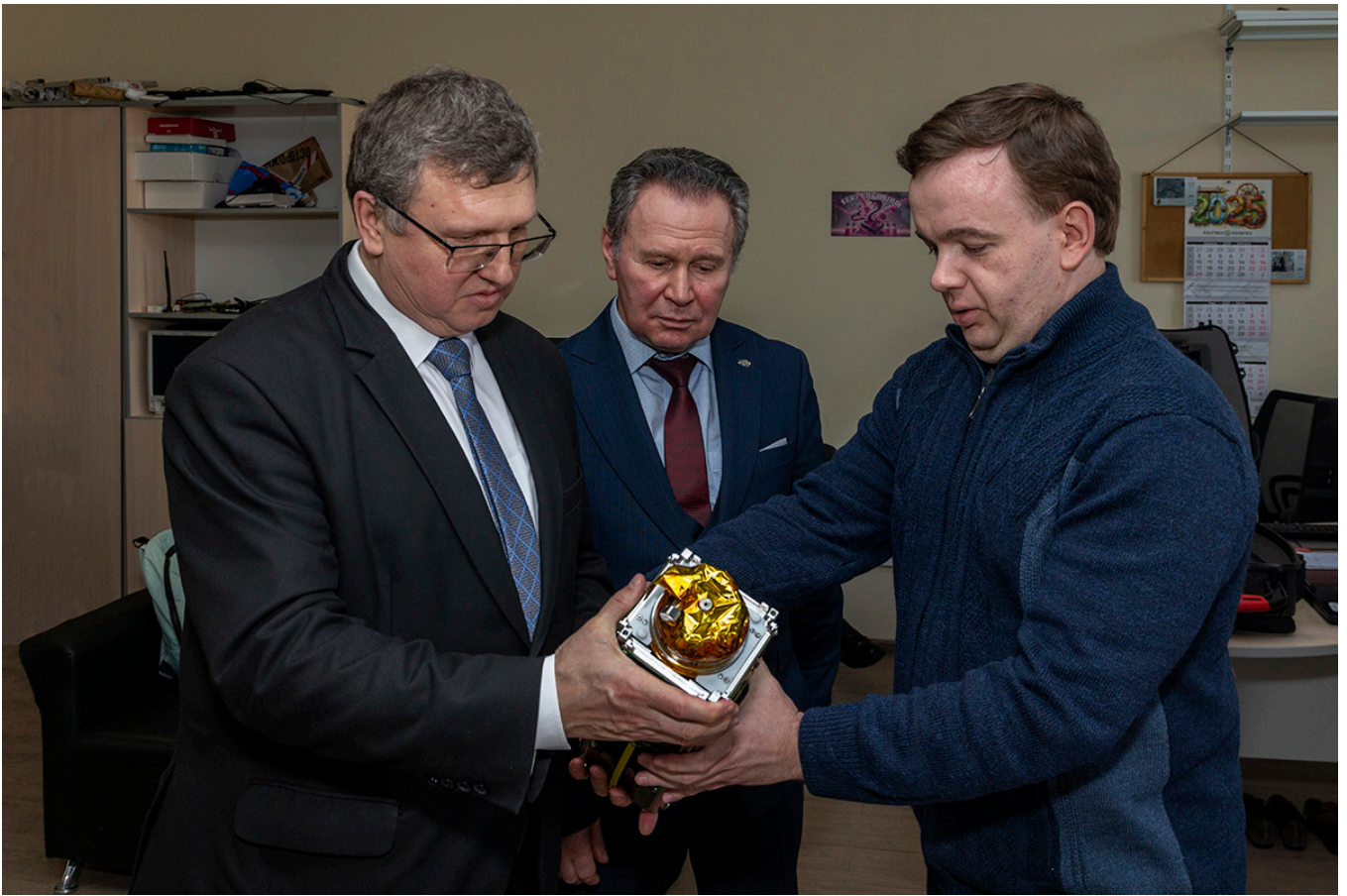
In continuation of the visit, the delegation familiarized with the activities of SPbPU Advanced Engineering School in Digital Engineering and the Ecosystem of technological development of SPbPU «Advanced Digital and Production Technologies» as a whole, which provides training of engineers with world-class competencies for high-tech industries. The joint projects of AES in Digital Engineering with the «United Institute of Mechanical Engineering» and the Institute of Physics and Mechanics of SPbPU with the A.V. Lykov Institute of Heat and Mass Transfer were demonstrated.



Standardization and metrology, as well as the possibility of using virtual modeling to solve problems of the machine-building industry of Belarus were mentioned among the possible areas of joint work. The guests were also interested in the developments of the laboratory «Industrial Systems of Stream Data Processing» of SPbPU AES of Digital Engineering in the field of algorithms and systems of data collection and analysis.

The delegation of the NAS of Belarus expressed special interest in the development of cooperation in applied physics, as well as in the space sphere, given that the NAS of Belarus supervises cooperation with Roscosmos. The Belarusian colleagues noted that SPbPU's experience in the field of additive technologies and digital modeling could become a basis for new initiatives within the framework of the Union State programs, such as modernization of satellite systems and training of personnel for the space industry.





An important event was the working meeting where the parties discussed the priority areas of cooperation: biomedical systems, quality management in technical projects and applied physics. Special attention was paid to the organization of a joint dissertation council and further implementation of the Roadmap of Cooperation. Dmitry Arseniev, vice-rector for international affairs, and representatives of specialized institutes took part in the discussion.



The delegates also visited the Polytechnic Supercomputer Center, where in a lively discussion with Professors Vladimir Zaborovsky and Lev Utkin of the Higher School of Artificial Intelligence they discussed the problems of applying artificial intelligence for supercomputing and SPbPU's capabilities in modeling complex engineering problems.





Today's talks have confirmed that our joint projects are not only fundamental research, but also applied practical developments that can form the basis for the technological breakthrough of the Union State, Alexander Shumilin noted. The parties agreed to intensify student exchanges and preparation of new applications for grants under the programs of the St. Petersburg Science Foundation, RSF and the Union State.

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