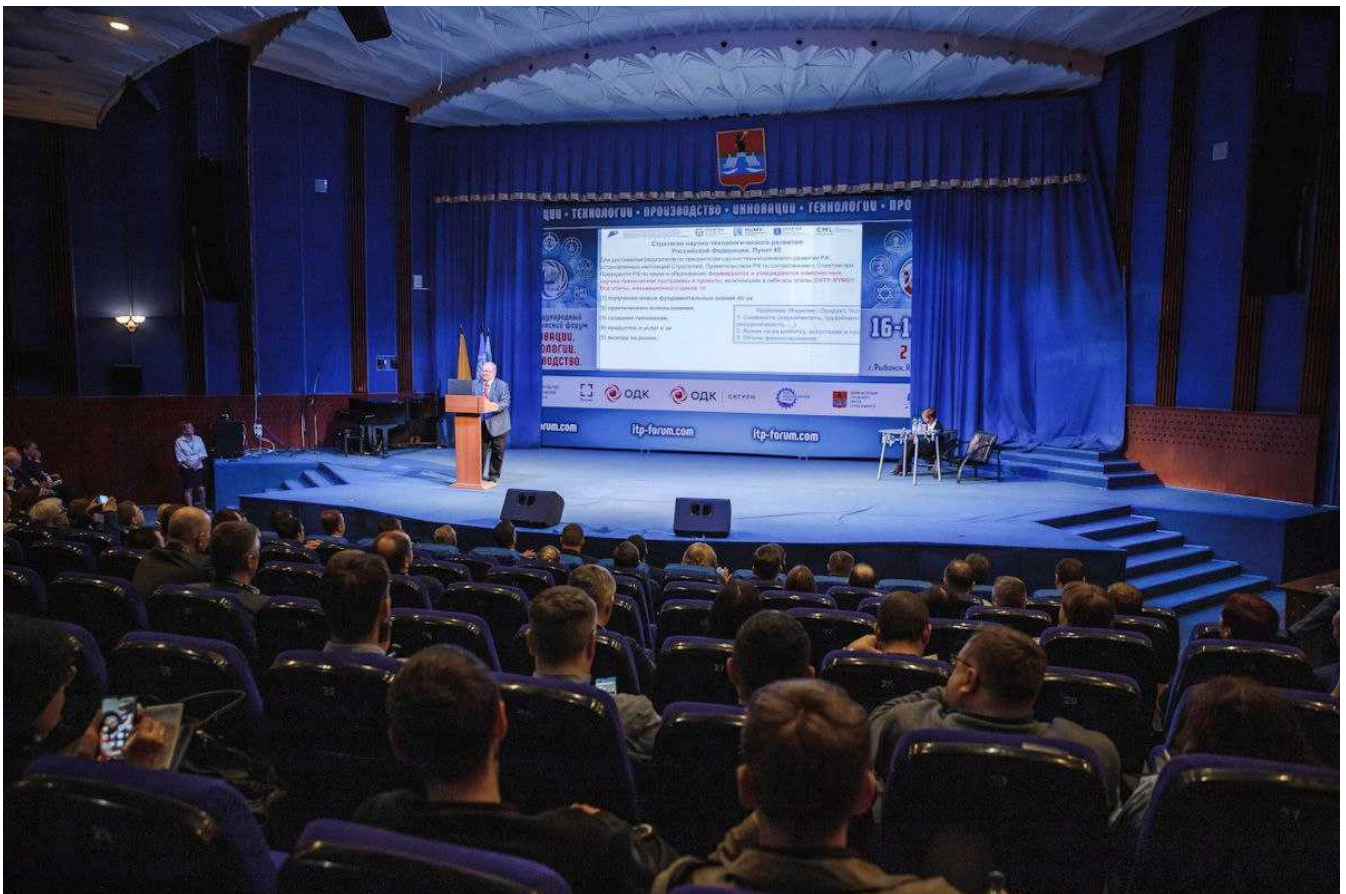


## Innovation. Technologies. Production: representatives of SPbPU spoke at the International Technology Forum in Rybinsk

From May 16 to 17, 2022 in Rybinsk the 8th International Forum on «Innovation. Technologies. Production» took place. Traditionally, the organizers were OOO United Engine Corporation (UEC JSC) and the government of the Yaroslavl region. The forum was attended by representatives of Russian and foreign high-tech enterprises, heads of small and medium technological and engineering companies, venture investors, representatives of leading universities, development institutes, research centers, as well as expert and professional communities.



Representatives of Peter the Great St. Petersburg Polytechnic University (SPbPU), as well as its structural subdivisions — the New Production Technologies Center of the National Technological Initiative (SPbPU NTI Center), Institute of Advanced Manufacturing Technologies (IPPT SPbPU) and the Computer Engineering Center (CompMechLab®) traditionally take part in the forum.

The main event of the first day is the plenary session was «Development of High-Tech Outsourcing in the Period of Logistical Restrictions. A model of university-enterprise interaction in today's environment». The key speaker was Alexey

Borovkov, Vice-Rector for Digital Transformation of SPbPU, Head of the SPbPU World-class Scientific Center for Advanced Digital Technologies«, the SPbPU Competence Center of the National Technological Initiative (NTI) «New Manufacturing Technologies», and CompMechLab® of SPbPU. Alexey Borovkov presented a report on «The Experience and Model of Interaction between SPbPU NTI Center of Competence „New Manufacturing Technologies“ and High-Tech Industry».



Over the past 20 years, we have accumulated unique experience for Russia in performing science-intensive engineering projects with dozens of high-tech foreign companies — we have successfully completed more than 250 projects, ‘on average’ one project per month, although, of course, many projects were performed simultaneously. This prompted us in 2014 to develop the CML-Bench digital platform, which was to enable hundreds of engineers to work simultaneously on dozens of projects for ten high-tech industries and companies from five countries, taking into account the difference in time zones. Today, it is the [CML-Bench™](#). digital twin development and application platform. Importantly, CML-Bench™ provides capitalization of knowledge, digital and design solutions, databases, and is in fact an advanced tool for system and digital engineering of mathematical, computer and digital models and high-tech products, said the speaker.



SPbPU representatives took part in several sections: «Formation of Proposals for Updating the Strategy of Scientific and Technological Development of UEC JSC», «Improvement of Efficiency of Technological Production Preparation System», «Development and Improvement of Domestic Software for Design and Development of Gas-Turbine Engine (GTD) in the Framework of Digital Twin Concept», «Distance Learning Technologies — Realities of Modern Society». The experts discussed the most topical technological trends in the field of aircraft engines, industrial gas turbines, marine application engines, defined the range of demanded technologies in engine building in the next five years and much more.



One of the main events of the 8th International Technology Forum on «Innovation. Technologies. Production» was the awarding of the winners of the TechAvia-2022 hackathon. A team of engineers from the Engineering Center (CompMechLab®) of SPbPU won in the category «Digital Twin of a Product». The participation of SPbPU representatives was supported by the Priority-2030 program as part of the «Digital Transformation of Industry» strategic project aimed at supporting young researchers and forming a group of universities that will become leaders in creating new scientific knowledge.

Prepared by the NTI Center of SPbPU

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