

The first project workshop on new materials was held at the Polytechnic University's office in Nanjing

On April 19, 2023 on the premises of Polytechnic University in Nanjing (Jiangsu Province, PRC) the first seminar on presentation of projects of Polytechnic University scientists to the representatives of scientific organizations and industrial companies of the National Innovation Center of the Yangtze River Delta (NICE) was held. NICE is the largest technological platform in China, founded in 2021 with the participation of the Jiangsu Industrial Technology Research Institute (JITRI) and the support of the Ministry of Science and Technology of China. SPbPU was one of the first universities in Russia to join the center at the invitation of JITRI. This step opened access for the university to innovative and financial resources of the four largest territories of China — the city of Shanghai and the provinces of Jiangsu, Zhejiang and Anhui. In order to strengthen cooperation with Chinese colleagues at the end of 2022, Polytechnic University opened an international office for global innovation cooperation at JITRI, the agreement to create which [was signed during the 4th BRICS+ International Municipal Forum last November](#).



The Russian-Chinese workshop on new materials was the first official event involving the new SPbPU office in Nanjing and the first under the cooperation agreement between Polytechnic University and NICE. It was attended on behalf

of Polytechnic University by Sergey Antonov, head of the Department of International Economic Relations, Lu Zhiyu, head of the SPbPU Shanghai office, and SPbPU professors and scientists. NICE was introduced by Wang Liang, director of the Department of International Cooperation, and Li Lianying, assistant director, who served as moderator.

Today, the world is facing the challenges of advanced manufacturing and new materials in various industries. We hope to make due contribution to solve them and join our efforts with Polytechnic University, Wang Liang, Director of NICE International Cooperation Department, said in his welcoming speech. I am confident that this will promote scientific and technological cooperation between our countries in the field of advanced manufacturing and new materials.

In his welcoming remarks, Sergey Antonov, head of the International Economic Relations Department, noted that the joint seminar would become the basis for cooperation in the field of new materials, and stressed the readiness of SPbPU to discuss projects in other areas: information technologies, biomedicine, energy and environmental protection, production equipment, etc.

The event brought together several dozen representatives of Chinese research institutes, small and large industrial enterprises, which are united by the NICE system. Among them were Jiangsu Lanhun New Energy Technology Co. Tang Weiwei, chairman of Usmicro Wang Huigang, leading researchers from JITRI Advanced Materials Research Institute and Shanghai Research Institute of Sinopec Corporation, as well as many other experts.

Professors and scientists from Polytechnic University presented projects on current areas in the field of new materials to their Chinese colleagues. The presentation of the professor of the Higher School of Physics and Material Technologies of SPbPU Oleg Tolochko was devoted to the composites modified by the carbon nanostructures. Associate Professor Tatiana Koltsova, also representing the collective of Professor Tolochko, told about the synthesis of carbon nanomaterials in the form of transparent conducting layers for optoelectronics and photonics. Anton Naumov, leading researcher of the Laboratory of Lightweight Materials and Structures, made a report on friction stir welding of high-strength aluminum alloys, where he spoke in detail about improving the quality of joints and increasing the productivity of the process.

In addition, the projects of the graduates of the [International Polytechnic Accelerator](#) 2022 were presented to the Chinese colleagues. Among them there were the project «Superconstructive polymer composite» presented by the project leader Dr. Igor Radchenko and associate professor of the Higher School of Theoretical Mechanics and Mathematical Physics Olga Loboda, «Hydrographic robotic complex VIZIR-M,» which was presented by the engineer of the Center of technological projects Petr Maximov, «Protective transparent composite» presented by the Engineer of Technological Process Modeling and Power Equipment Design Laboratory Nikolay Mamaev, and Fyodor Kochetkov, an engineer at the Higher Engineering Physics School, made a presentation on «Flexible LEDs».

At the end of the event the Russian and Chinese parties expressed their confidence that the cooperation between SPbPU, NICE and JITRI will gain momentum. The past seminar was only the first in a series of such events that will be held regularly throughout the year. Therefore, all the polytechnics interested in promoting technological projects in China have the opportunity to present their achievements and find the support of the National Innovation Center of the Yangtze River Delta.

Дата публикации: 2023.04.20

[>>Перейти к новости](#)

[>>Перейти ко всем новостям](#)