

Scientific youth from all over the globe was united in All-Russian School for Young Scientists

In the beginning of July, 2017 Peter the Great St. Petersburg Polytechnic University held IV All-Russian School for Young Scientists. 25 students and PhD students from eight Russian universities became the participants of the event through a competitive selection process. Their projects were aimed at research of new materials and fields of their application, and using additive technologies in metallurgy.



'I decided to submit an application when I saw the program content. I was very interested in opportunity not only to present my project but also to gain experience and knowledge in businesses', – told Andrew Schelkunov, master's degree student from Yuri Gagarin State Technical University of Saratov.

The opening ceremony of the Young Scientists School was held at the Research and Innovation Complex 'Nanobiotechnologies' under the plenary meeting of the XII International Research and Technology Conference 'Modern Metal Materials and Constructions', where the participants learnt a lot of new information about trends of modern science from the leading scientists: Head of Laboratory of Materials

Science, Institute of Solid State Physics RAS Mikhail I. Karpov, Director of Institute of Metallurgy, Mechanical Engineering and Transport Anatoliy A. Popovich, Director of CRISM 'Prometey' Aleksey S. Oryshchenko, RAS corresponding member R.R. Mulyukov, etc.



After the end of the plenary meeting Deputy Director of Engineering Center 'Center for Computer Engineering' (CompMechLab®) Eugene V. Belosludtsev told the young scientists about the TechNet (National Technology Initiative) working group activity, made a point of importance of transition from traditional industry to advanced industry and shared successful experience of Polytechnic University in implementation of the project 'Factories of the Future'. Also the participants visited the leading scientific laboratories of SPbPU, completed with the latest technical equipment: Laboratory of Study and Modeling of the Structure and Properties of Metals, Laboratory of Lightweight Materials and Structures and the Supercomputer Center 'Polytechnic'. Then the students had a varied business and educational program on shipboard 'Vissarion Belinsky'.



Next day experts from SPbPU said the students about youth innovative projects support programs. The Director of Intellectual Property Center I.G. Kadiyev told them about possible grant from the Foundation for Assistance to Small Innovative Enterprises in Science and Technology (FASIE) for various upstarts. Many participants were interested in the 'UMNIK' (rus. for a clever person): the program which is aimed for upstarts oriented on National Technology initiative. And if many participants have heard about FASIE, just few students knew about pre-accelerator and accelerator 'GenerationS'. The Director of business incubator 'Polytechnic' O.I. Borscheva explained in her presentation why the participation in such programs is important, and told about fast upstarts with the next entry into a global market, using the examples of successful SPbPU experience.

After that the students met with SPbPU scientist, Rector Advisor, Professor V.V. Korablev, who told them about the main technological trends and shared his experience in international cooperation with China.



The third day of the School was dedicated to the creation of business concept innovation project. The Director of Polytech Strasczeg Russian-German Center for Innovation and Entrepreneurship A.M. Efimov spoke about the meaning of value proposition, work with competitors, market analysis, etc. Finally the students strengthened their knowledge with a business game.

During the fourth day of the School the participants made their final presentations of the projects, which they presented the jury. The jury consisted of SPbPU Professor V.V. Korablev, the Head of the department of Materials Research and Technology V.N. Tsemenko, sales manager of Moscow representative office 'Intertech Corporation' E. Starobinskaya.



‘I didn’t expect it would be so interesting. All the things the speakers said I will use in my project. In the nearest future I am going to use the knowledge I’ve got here in the third part of my dissertation, where it is necessary to describe internal development. Also I think to apply for START program or some other grant’, – shared her impressions PhD student from Yuri Gagarin State Technical University of Saratov O. Tischenko.

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