



World of **MEPhI**

December '20

**DEAR COLLEAGUES –
PROFESSORS, LECTURERS,
POSTGRADUATES, STUDENTS,
AND EMPLOYEES OF MEPHI!**

**PLEASE ACCEPT OUR SINCERE CONGRATULATIONS ON THE
UPCOMING HOLIDAYS, NEW YEAR AND CHRISTMAS! 2020 YEAR
WITH A LOT OF WORK, CHALLENGES AND EFFORT IS BEHIND
US. HERE'S HOPING THAT ALL YOUR DREAMS COME TRUE IN
2021 AND THE COMING DAYS ARE FILLED WITH SUCCESS AND
PROSPERITY. ENJOY IT WITH PLENTY OF LAUGHS AND PEACE!**

PRESS-SERVICE OF MEPHI

NEWS

MEPHI WON THE WORLD SKILLS CHAMPIONSHIP FOR THE FOURTH TIME

At the beginning of December, the "Young Professionals" (WorldSkills Russia) National Competition Final closing ceremony took place at MEPhI.

Together with the Department of Entrepreneurship and Innovative Development of the City of Moscow, Agency for Strategic Initiatives (ASI), and the Young Professionals (WorldSkills Russia) Union, our university became one of the co-organizers of the championship.

Championship 2020 has a unique format. During a week, participants completed remotely; they were on specially equipped sites in their universities. The experts observed the participants from the Competition Management Centers. One



of two CMC was at MEPhI. The continuous control of Center control the competition in five high-tech competencies: electronics, prototyping, composite technology, industrial robotics, and the operation of unmanned aircraft systems. MEPhI students, including

representatives of branches and the Moscow site, won 16 medals (7 gold, 4 silver, 5 bronze) in 13 competencies and three medallions of excellence in 15 competencies.

MEPHI TAKES 1ST PLACE FOR TRAINING IT SPECIALISTS

The Expert Analytical Centre have published a ranking of universities of the new economy 2020.

The ranking assesses the satisfaction of employers with the quality of training specialists in high-tech specialties. In fact, this is a rating of university graduates with the eyes of employers.

MEPhI took 1st place in the ranking for training specialists in the field of information technology.

The ranking is based on survey that was conducted in the fall of 2020 among 500 com-

panies in 74 regions of Russia. More than 90% of the surveyed companies are representatives of medium and large businesses.

The ranking was prepared with the support of the Ministry of Education and Science of the Russian Federation, the Russia - Country of Opportunities platform, the Presidential Grants Fund, as well as UrFU and the St. Petersburg branch of the Higher School of Economics within the framework of the Career Time project.

MEPHI IS AMONG THE BEST RUSSIAN UNIVERSITIES

On December 1, RAEX rating agency published a series of subject ratings of Russian universities for the first time. MEPhI is represented in six out of ten areas of study studied by RAEX.

In the Physics and Astronomy, MEPhI entered the top three best Russian universities, along with Lomonosov Moscow State University and MIPT. The University took 4th place in Information Technology and Mechanical Engineering and Robotics and entered the top five in the areas of Mathematics and Engineering and Technol-



ogy. In addition, MEPhI was ranked among the top fifteen universities in Russia in the field of Economics and Management. Three factors were assessed: the level of applicant's knowledge, number of scientific publications and assessments obtained through public opinion. Earlier, RAEX agency published a rating of the best universities in Russia. According to its results, MEPhI entered the top-3 Russian universities for the sixth time in a row.

GLOBAL COOPERATION

MEPHI HOSTED A ROUND TABLE UNDER THE AEGIS OF FRENCH-RUSSIAN UNIVERSITY

On 10 December 2020, MEPhI hosted an online round table of the interdisciplinary group «Earth observation, space and the environment — Engineering and Instrumentation» under the aegis of the French-Russian University — a consortium of leading Russian and French educational organizations. The round table was chaired by MEPhI First Vice-Rector Oleg Nagornov.

The event was attended by representatives of universities-members of the network consortium: MEPhI, RUDN, RANEPA, ITMO, the University of



Aix-Marseille (France) and the University of the Cote d'Azur (France).

The participants discussed modern trends and challenges in physical science: laser, plasma and nanotechnologies, astrophysics and cosmology, described the implementation of master's programs.

During the debate, the participants discussed

how the research agenda of France and Russia correlates with global trends and made proposals for further cooperation and possible interdisciplinary projects.

Summing up the results of the round table, an ex-vice-president of the University of Aix-Marseille, Prof. Pierre Chiappetta noted that universities have a long history of academic cooperation and expressed the hope that cooperation will continue to develop in the future, including for the development and implementation of programs student exchange for master's and postgraduate programs and double degree programs.

MEPHI AND IPEN DEVELOP COOPERATION

National Research Nuclear University MEPhI and Nuclear and Energy Research Institute (IPEN, Brazil) signed up a memorandum of understanding for cooperation in the field of research and educational programs implementation.

MEPhI and IPEN plan to develop partnerships in such areas as the implementation of joint research programs; joint training of specialists in the field of peaceful use of nuclear technologies; organization of scientific conferences, seminars, round tables, symposium and workshops; joint publications in specialized scientific journals. It is also planned to de-

velop student exchange programs.

Within the framework of the joint IPEN Master's program in Nuclear Science and Technology 2021-2024, leading specialists of MEPhI will conduct educational modules, including lectures, practical parts, and obligatory testing at the end of each module.

The first educational modules will run from November 30, 2020 to January 29, 2021.

The Nuclear and Energy Research Institute (IPEN) is a Brazil agency managed by the National Nuclear Energy Commission and associated to the São Paulo State government and the University of São Paulo.

MEPHI STUDENTS RECEIVED IAEA SCHOLARSHIPS

Eleven students of nuclear physics Master's programs at Russian universities were awarded the Maria Skłodowska-Curie International Nuclear Energy Agency (IAEA) scholarship. Among them are three students of MEPhI — Valeria Sklyarenko from Russia, Ifeoma Uvom from Nigeria and Davaasuren Byambatsogt from Mongolia.

"We welcome the awarding Marie Skłodowska-Curie scholarships to Russian and international female students. It is a timely initiative of International Nuclear Energy Agency that supports education and better gender balance in nuclear in-

dustry", said Director of Educational Projects and the HR Service at ROSATOM Valery Karezin.

In total, 100 female students from all over the world were selected

to participate in the IAEA Maria Skłodowska-Curie Fellowship Program. The announcement of the winners names took place on November 20 in Vienna (Austria). The

program was launched in March 2020 by IAEA Director General Rafael Grossi. Over 550 applicants from 90 countries of the world applied for it. The scholarship cov-

ers the cost of studying for master's programs (up to 10 thousand euros per year) and accommodation (up to 10 thousand euros per year) for up to two years.



REGIONS

STUDENT SARFTI - WINNER OF THE YOUTH OPEN SCIENCE FORUM

In Kurchatov Institute National Research Centre- St. Petersburg Institute of Nuclear Physics named. B.P. Konstantinov (PNPI) took place VII All-Russian Youth Scientific Forum «Open Science 2020» in the online format.

The conference worked in the following sections: «Biophysics, Molecular Biology, Genetics», «Condensed Matter Physics», «Theoretical Physics», «Biomedicine, Nuclear Medicine», «Materials Science and New

Materials», «Atomic Nucleus and Particle Physics», «Nanostructured materials», "Physics and technology of reactors and accelerators".

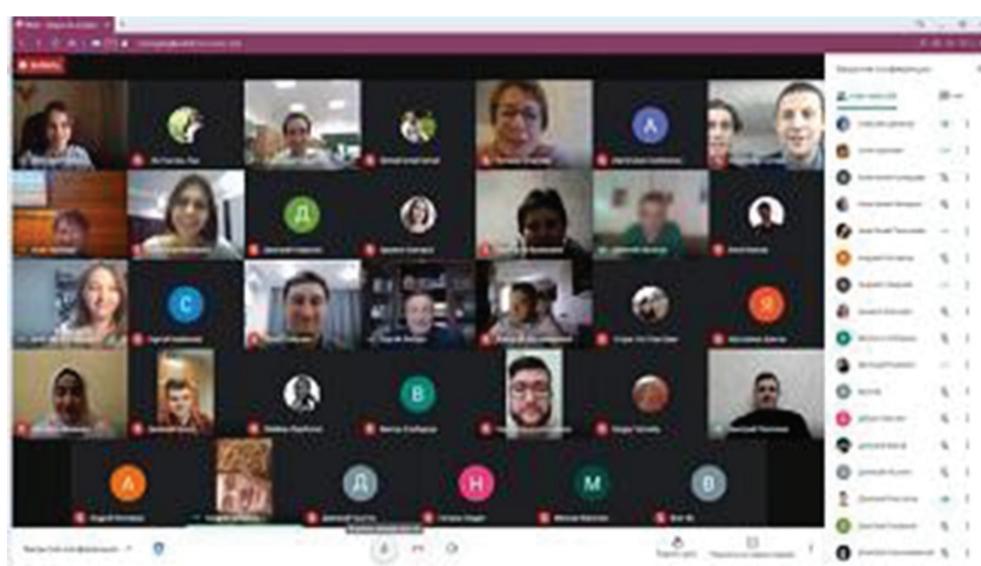
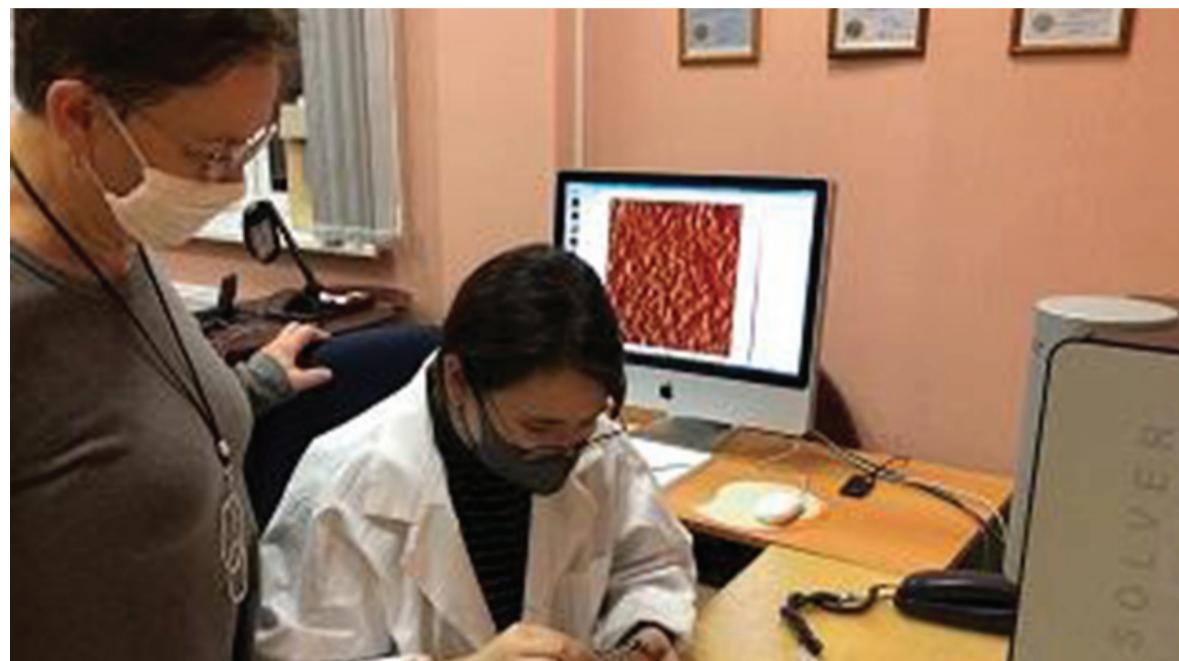
The distance format made it possible to attract a large number of students, graduate students, teachers, scientists to participate. The results of research were presented by Tatyana Konovalova, a third-year student of the Physics and Technology Faculty of SarFTI – branch of MEPhI. Her research was focused on investigation of the properties of the

cathode surface of gas detectors after the experiment at the LHC.

Representatives of the

Forum Program Committee have identified the best reports. Research of SarFTI student became

one of three winning reports in the section «Physics of Condensed Matter».



IATE MEPhI ORGANIZED THE ATOMFUTURE CONFERENCE

IATE MEPhI held the 16th annual conference «The Future of Nuclear Energy - ATOMFUTURE 2020».

The conference has been held for several years with the aim of identifying talented students and specialists. The conference is aimed at solving the following tasks: stimulating research and applied activities of youth; identification of new ideas and developments; organizing exchange of views and develop cooperation among young people; assistance in scientific work of young specialists.

Young scientists from Russia, the Republic of Vietnam,

Ukraine, the Republic of Belarus, the People's Republic of Bangladesh, and the Republic of Zambia actively supported the discussion and exchanged their views.

"It is the first experience of holding an event in online format. Interaction of participants can be considered as effective one. Online format also allowed presenting reports in a good level; participants asked questions and actively discussed research results. This positive experience can be applied in the future», the conference organizers noted.

THE VIII FESTIVAL OF SCIENCE HELD AT BITI MEPhI

The VIII Festival of Science was held at the Balakovo Engineering and Technological Institute MEPhI. The main focus was on the Physics of the Future.

More than 70 different educational events were prepared by BITI together with the leading enterprises of the city and the region - Balakovo NPP, Balakovo branch of Apatit JSC, Saratovo branch of PJSC «T Plus», Balakovoatomenergoremont - as well as with institutions of secondary vocational education. Among them were online lectures, master classes, games and quizzes, experi-

ments in physics and chemistry, videos, etc. More than 1900 people took part in the events. Thanks to the intensive program, almost every person in the city was able to get into the wonderful world of science and innovation.

Within the framework of the festival, Olympiads in mathematics, physics, chemistry and computer science were held as well as competitions «IT-Autumn in Atomgrad», «The Future of the Russian Economy» and «Green Building». The winners were awarded by the partners of the Festival of Science.

