World of MEPhI

November ‘ 19

THE BEST COMPANIES OF THE COUNTRY ARE WAITING FOR MEPHISTS: THE UNIVERSITY HOSTED A CAREER FAIR

PROJECTS

RECTORS OF LEADING RUSSIAN UNIVERSITIES MET WITH APPLICANTS AT THE FORUM “PROJECTION”

All-Russian forum of vocational guidance “Projection” was held in Yaroslavl. Earlier it was called “Future intellectual leaders of Russia”.

The forum brought together experts from major Russian companies and universities, the country’s best teachers and motivated students to solve pressing issues in the field of vocational guidance and self-determination.

The forum is an open platform for demonstration of the best pedagogical practices and educational technologies in the field of career guidance. This year, the program was built around six global challenges of our time, which set special requirements for technologies and professions: safety, industrial revolution, health, cultural code, ecology, and habitat. In these areas, together with experts from MEPhI and other organizations, schoolchildren solved non-standard tasks, training teamwork skill and learned to work in a team and to have a little practice in different professions

The key event of the Forum was the Big Open Lesson “School of Tomorrow” with the participation of Russian President Vladimir Putin.

Head of the State wished success to all participant and noted the importance of career choice for all high school students in the country.

The President said that many jobs are being created in innovative sectors of the economy, that is why schoolchildren have excellent job opportunities. «In 2019, a quarter of a million young people got a job at large enterprises of our country that are engaged in innovation. For example, new materials, drugs, self-driving transport, artificial intelligence, biology, including genetic research. All of this is important. This will determine the future of our country. Not only your personal future, but also your children and your grandchildren,” said Vladimir Putin.

On November 26, the Rector’s Hour was held at the Forum venue. The rectors of leading Russian universities took part in it. “The universities that are represented here are the leaders — it is not easy to enter them. But maybe it is even more difficult to study in competition with their fellowstudents, equally capable and bright guys, and prove to yourself that you deserve the choice you made, ”said Mikhail Strikhanov, Rector of MEPhI.

An important element of the meeting was a dialogue in a “no tie” format on current topics in the field of modern higher education. Schoolchildren — future applicants — could address to the rectors their questions. This opportunity was also taken by the students of the MEPhI Pre-University — Lyceums No. 1511 and No. 1523.

Answering a question how to combine study and work, the rector emphasized the need to maintain balance: “ Teachers in such serious universities will ask you without any privileges. Therefore, if you usefully combine work and study, it is very good. Because it disciplines you, it brings sustainability, irst of all, in financial aspect. But do not forget: it is accepted that,first at all, a person must study and get a very good education, and after that realize his career path”.

Speaking about the impact of artificial intelligence on future professions, the rector noted that this is «a very effective tool for the future economy».

At the same time, it is necessary to take into account the social risks that can arise in this case. “As you know, this is a very powerful weapon. 15-20 years from now, it will be much more powerful than any nuclear facility. Therefore, just your generation will have to solve these problems in a way that combines convenience and security,” said the rector.

On the final day, the Forum was also visited by Deputy Prime Minister Tatyana Golikova, Governor of the Yaroslavl Region Dmitry Mironov and Minister of Education of the Russian Federation Olga Vasilyeva. Schoolchildren presented to the guests their cases and discoveries.

SCIENCE

HANDWRITING AS A DETECTOR: NEW WAY TO EVALUATE MENTAL STATE USING LASER

Scientists of the National Research Nuclear University MEPhI in cooperation with foreign colleagues have studied the biomechanics of hand movements when writing and drawing, and developed a unique method that allows to evaluate the individual characteristics (including deviations) of writing speed and pressure exerted on paper by a pencil or a pen. The results are published in the journal Laser Physics Letters.

The method of dynamic light scattering is used. Passing through dense non-transparent environments (biological tissues, paper), laser radiation is scattered on their internal structural elements and decays into many subtlest composite light rays. The scattered parts of the light are interfered, and this leads to the formation of zones of positive and negative interference called laser speckles.

If there is any movement in the environment, a jitter of the interference speckle pattern is observed. An analysis of speckle jitter allows a quantitative assessment of the structural properties of a light-scattering environment.

"The laser speckle analysis method is very sensitive to any mechanical stress, even if these changes occur at the micro and nano level. All changes in structural and physical properties are recorded by a high-speed digital camera, then a special computer algorithm calculates and restores accurate information about the nature of the movement of the hand and pen or pencil in three dimensions in time. We suggest that this method can be used by forensic scientists for a systematic analysis and study of the features of the handwriting of criminals, their victims and witnesses of the crime," commented the author of the study, professor at the MEPhI and Aston University Igor Meglinsky.

According to Pr. Meglinsky, the main task of the team is to implement the results of the work to practical medicine and forensics. With the participation of a group of professor Vyacheslav Kalchenko and a certified expert in the field of forensic psychiatry and handwriting Dr. Yuri Kuznetsov (both are from Weizmann Institute, Israel), materials are being collected and evaluated and a modification of the method is being prepared for use in forensics. It is expected that, if necessary, the method can be used to establish the effects of psychotropic substances on people.

According to scientists, the method can be very effective in the non-contact diagnosis of a wide variety of nervous and mental diseases such as autism, Alzheimer's and Parkinson's disease, epilepsy, schizophrenia. When working with children, it will be possible to assess the progression of the disease or the effectiveness of the chosen treatment plan and rehabilitation after analysing the way the child draws or writes.

SCIENTISTS FOUND A NEW BASIS FOR LEVITATING TRANSPORT

Scientists of the National Research Nuclear University MEPhI clarified the physical mechanisms of magnetic levitation. The results of the study are published in the journals Materials Research Express, Superconductor Science and Technology, Journal of Physics: Conference Series.

According to the authors, this expands the prospects for using high-temperature superconductors in the creation of new engines, bearings, and kinetic energy storage devices.

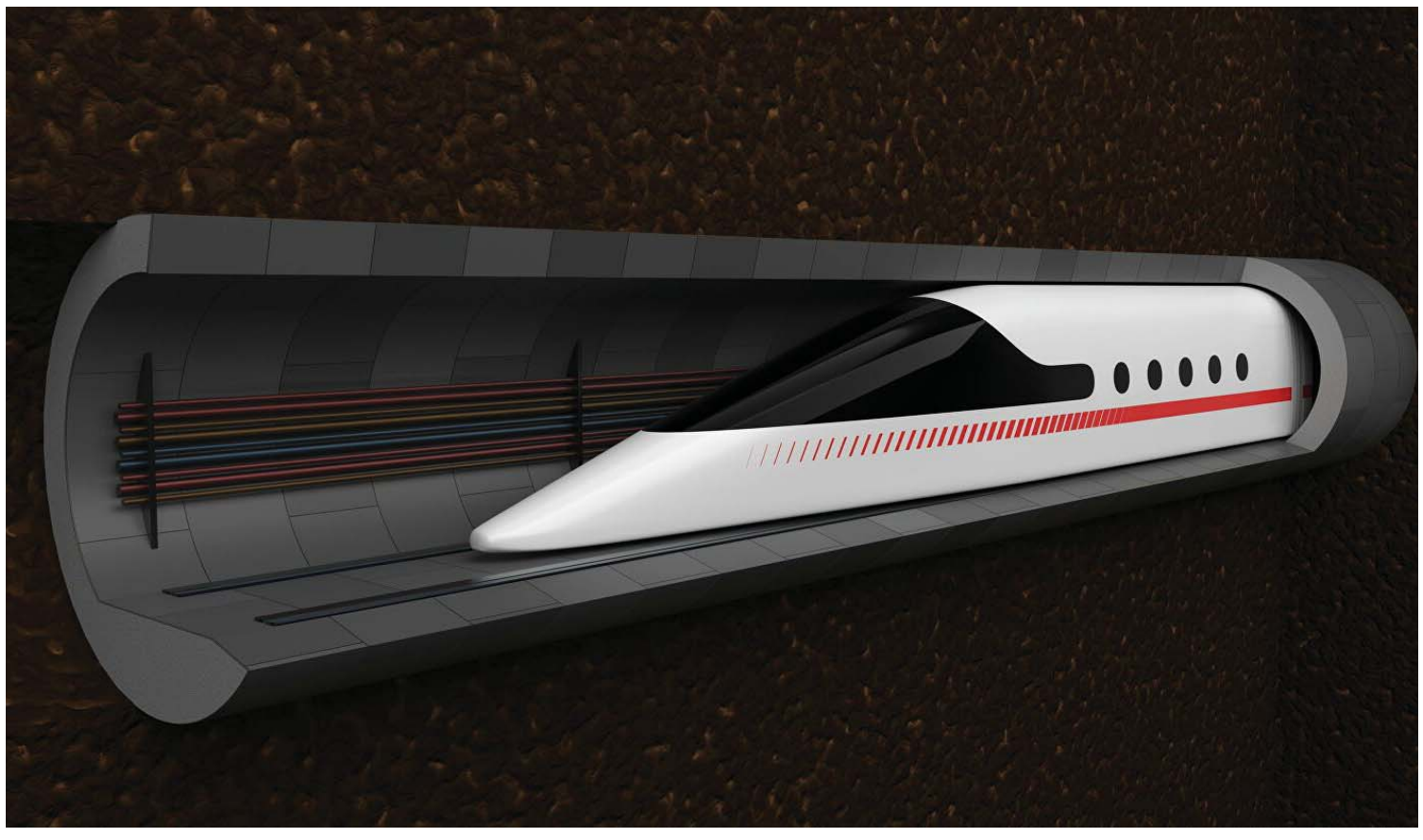
Superconductors are used to create wires and cables most often. This is due to their main property of the lack of resistance to electric current. Unlike ordinary conductors, for example, copper or aluminium, they absolutely do not heat up if current is passed through them. The absence of heating means that energy is not lost and the efficiency of the cable in the operating mode is almost equal to one hundred percent.

According to the scientists, superconductors have another exceptional characteristic – they push the magnetic field out of their volume. And this means that the magnet placed above it will not fall on the surface of the superconductor. It will float at some height.

Experts noted that due to the quantum nature of the superconducting state, the magnet and the superconductor become "attached" to each other, regardless of movements relatively to each other. This phenomenon is called magnetic levitation. Scientists researched it on new modern materials – flexible superconducting tape composites.

"Such materials have advanced functional characteristics compared to traditional voluminous ceramic superconductors. The results of our extensive experimental and theoretical work have clarified the physical mechanisms of magnetic levitation and have shown the undoubted promise of using high-temperature superconducting tapes in magneto-levitation systems, "commented Professor Igor Rudnev, head of the Laboratory of Superconductivity and Magnetic Phenomena at the LaPlas Institute of MEPhI.

MEPhI scientists plan to develop results of these studies undertaken with the support of the Russian Science Foundation (grant 17-19-01527) in the near future, using them to create magneto-levitation transport, magnetic bearings and superconducting motors.



CONFERENCES

RISKS AND THREATS TO THE WORLD ECONOMY

On November 14-15, Moscow hosted the 5th International Scientific and Practical Conference of International Network Anti-Money Laundering and Combating the Financing of Terrorism Institute called «The AML/CFT system in the global world: risks and threats to the global economy.» The conference was organized by the Federal Service for Financial Monitoring (Rosfinmonitoring) in cooperation with the National Research Nuclear University MEPhI, Plekhanov Russian University of Economics, and the Federal Financial Monitoring Service.

The minister of Science and Higher Education of the Russian Federation Mikhail Kotyukov, the rector of the MEPhI Mikhail Strikhanov and the director of Rosfinmonitoring Yuri Chikhanchin welcomed the participants at the conference opening at the MEPhI.

In his speech, Mikhail Kotyukov noted that the key role in ensuring financial security belongs to highly qualified personnel.

“Universities are active participants in a project of the network institute in the field of combating money laundering and financial terrorism. In the field of training higher school personnel, the constant work on updating curricula, including teaching the most modern methods of effective information analysis and decision-making, remains the most important task,” said Mikhail Kotyukov.

The day before, Nikolay Kolachevsky, the director of the Lebedev Physical Institute of the Russian Academy of Sciences, emphasized while opening the forum that the current conference brought together 518 participants from twenty countries, which indicates the relevance of the topic for the scientific community.

The key topics of this year’s conference were the development of the AML/CFT system in the digital era; recent trends, achievements and plans in the field of combating money laundering (digital identification-biometrics, providers of digital assets); IT industry and AML / CFT software; digital technology in the service of financial monitoring; problems,

risks and threats of digitalization of the economy and its individual sectors, assessment of the potential and risks of using digital technologies in the field of AML / CFT.

The conference was held in the form of section meetings, round tables, presentations, debates, competitions. On the second day of the event, organizers arranged a student sports competition. In addition, the presentation of a student laboratory of financial intelligence at Rosfinmonitoring was done in the framework of the conference at the MEPhI.

INTERNATIONAL ACCELERATOR SCHOOL «ION COLLIDER PHYSICS» IN DUBNA

The traditional Joint International Accelerator School «Ion Collider Physics» was held in Dubna. Organizers of the school are Joint Institute for Nuclear Research (JINR), European Centre for Nuclear Research (CERN), as well as accelerator laboratories in the USA and Japan.

The School’s programme covered a wide range of issues related to modern ion colliders and their development trends, such as the scientific challenges facing modern accelerator complexes, beam dynamics, ion sources, accelerators and high-frequency systems, vacuum technologies, and modelling tools.

This year about 70 “schoolers” from Russia, Belgium, Germany, India, Kazakhstan, China, Morocco, Poland, Switzerland, and Japan participated in the event. A record-high number of participants represented MEPhI at the School. Overall, there were 15 young scientists, post-graduates and students of the MEPhI, as well as 20 participants, who graduated from MEPhI in past years (mainly from the Department of Electrophysical Installations) and who currently work at JINR, NRC Kurchatov Institute, RFNC-VNIIEF and other Russian research centres.

Leading experts from JINR, BINP SB RAS, CERN, JAEA, KEK delivered their lectures at the School. Two lectures on linear ion accelerators and high-frequency accelerator systems were delivered by associate professors of the LaPlas Institute of the MEPhI Mikhail Lalayan and Sergey Polozov.

In the framework of the School, there were also organized excursions to the JINR Laboratory of High Energy Physics to familiarize with the NICA project, and practical exercises that dealt with various issues related to the development and design of accelerator complexes and their systems.

PROSPECTIVES

MEPHI STUDENTS SUCCEED AT WORLDSKILLS HI-TECH 2019

Representatives of the National Research Nuclear University MEPhI have performed successfully at the WorldSkills Hi-Tech 2019 championship and at the international championship BRICS Future Skills Challenge 2019.

The 6th National Championship of cross-cutting working professions of high-tech industries WorldSkills Hi-Tech 2019 took place in Yekaterinburg. More than 700 contestants from 53 regions of the Russian Federation competed in 48 competencies. Participants were specialists from 39 major Russian corporations, holdings and enterprises of Rosatom, Rostec, Sibur, Roscosmos, United Aircraft Corporation, Evraz, Chelyabinsk Tube Plant, Russian Railways. The championship competitions were held in three age categories: the main category (16-49 years old), the "WorldSkills Juniors" (12-16 years old) and the "Skills of the Wise" (age 50+).

The MEPhI team competed as a part of Rosatom's team and won five medals in the main age category, namely two gold medals («Exploitation of Unmanned Aviation Systems,» «Mobile Robotics»), two silver medals («Reverse Engineering», «Quantum technologies») and one bronze medal(«Quantum technology»). Besides, schoolchildren led by MEPhI staff contributed to Rosatom's team with two gold, one silver and two bronze medals in the WorldSkills Juniors category.

As a result of the competition, Rosatom's team took the first place in the championship, winning 27 medals in the main category, 21 medals in the category of WorldSkills Juniors and 9 medals in the «Skills of the Wise» category. A significant role in the victory of the team was played not only by current students, but also by yesterday's graduates of the MEPhI (TI, TTI, SPhTI and other branches).

WorldSkills Hi-Tech 2019 venue hosted two international championships, the 2nd WorldSkills Open Eurasian Championship and the BRICS Future Skills Challenge 2019, where more than 150 contestants and experts from Russia, Kazakhstan, Belarus, China, India, Iran, South Africa, Brazil and Mongolia participated in competitions.

In the BRICS Future Skills Challenge 2019 championship in the «Operation of Unmanned Aviation Systems» category, the gold was won by the MEPhI student Sergey Stetsky and his compatriot Vitaly Kostarev.

JOB FAIR AT MEPhI

The annual career guidance event, the Job Fair, was held at the MEPhI. It allows partner enterprises to create a talent pool by attracting students to trainings and internships. The event is a part of the HR management plans of leading partner enterprises, including enterprises of the State Atomic Energy Corporation Rosatom.

This year, about 60 partner organizations of the MEPhI were represented at the Job Fair, such as enterprises of large state corporations (Rosatom, Roskosmos, Roselektronika), the scientific and financial sectors, and high-tech industries. Within the framework of the Job Fair, the Institute of Nuclear Physics and Technology of the MEPhI held a round table "Training for Nuclear Power Plants" with representatives of the top management of nuclear power plants and JSC Rosenergoatom.

Oleg Nagornov, First Vice-Rector of the National Research Nuclear University MEPhI, addressed the participants with a welcoming speech, wishing graduates to find work that they like and that is interesting for them, the one for which they prepared during their studies at the university.

In a briefing format, representatives of employers' organizations told future professionals about the history of their companies and enterprises, about the specifics, features and working conditions. They also answered topical questions regarding career and personal growth opportunities, internships, material support, realization of creative and leadership potential, development of a healthy lifestyle.

Students learned about the process of employment directly at the stands of employers. There, company representatives shared some practical tips on building career paths and answered all questions in detail.

Students also had the opportunity to undergo professional testing, interviews, to attend master classes from the Russian IT company GMCS, the Center for Evaluation and Development of Project Management, the National Credit Bureau, and the Rödl & Partner analytical agency.

Natalia Ivasheyeva, a 3rd year student of the MEPhI:

"I came to the job fair to learn more about various companies in the field of consulting, audit, analytics, and development. I would like to receive an invitation to an internship, which, in fact, I did. I filled out a questionnaire, and I will wait to be invited for an interview."

Varvara Merenkova, a 4th year student of the MEPhI:

"I'm in my last year, and it's high time to think about a future career. Here at the job fair, I would like to know more about my prospects. The fair helps to find out in which direction you want to move. There are many companies, which means many opportunities. I think that such events are really useful for students."

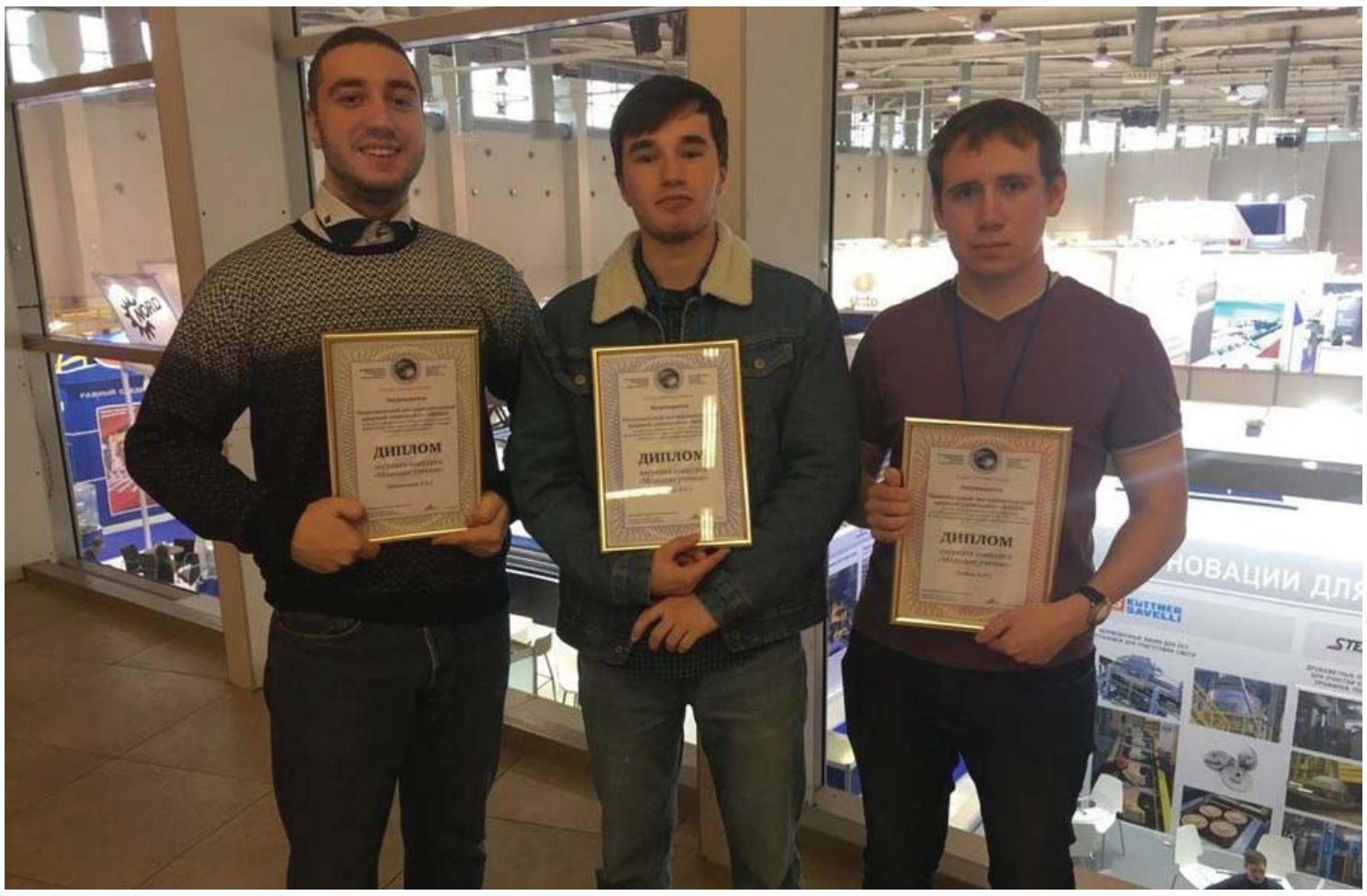
YOUTH AND SCIENCE

PRIZE-WINNERS OF “YOUNG SCIENTISTS” COMPETITION

Graduate students Artyom Gabov and Nikita Popov, and post-graduate student Roman Minushkin (Department No.9 «Physical Problems of Material Science,» INPhE) became prize-winners of the Young Scientists competition held at the International Metal Expo 2019 exhibition.

The aim of the competition is to identify and support talented young people among specialized educational institutions of higher professional education, research institutes, manufacturing enterprises, to encourage their creative skills and to promote results of scientific work to the knowledge-intensive products market.

Artyom Gabov’s work «Getting a high-entropy alloy in the system Ni-Nb-Co-Fe-Cr by the method of rapid hardening of the melt for the oxide ceramics adhesion» considers an unusual type of materials – high-entropy alloys. With their use, ceramic soldering compounds of aluminoxic ceramics were obtained. They also allow to study these compounds and analyze the formation of structure in the produced seam.



Nikita Popov’s work «Determining the corrosion resistance of soldering compounds from steel 12X18N10T, obtained with nickel soldering» is devoted to solving the urgent problem of nuclear energy, which is the production of thin-walled components of internal devices that are exposed to high pressure, temperature, aggressive environments and radiation during operation. The study analyzed the effect of the temperature-time soldering regime and the chemical composition of the alloy on the structural-phase state of the seam and, accordingly, its corrosion resistance. The possibility of using the developed alloys based on the system Ni-Cr-Si-B and Ni-Cr-P to obtain non-removable lattice compounds from corrosion-resistant steels of the austenite class has been also demonstrated at the exhibition.

Roman Minushkin’s work «Changing the structure of surface layers of cylindrical products with the help of combined processing» is devoted to the study of the effect of processing on the change of structure and properties of surface layers of steel shafts and the development of residual macro-voltages in individual sections of shafts modified in different ways. The work was carried out using X-ray methods of studying the surface layers of processed steel shafts. Roman provided a phase analysis and assessment of the structural state of the material after different types of treatment, as well as measured residual macrostrains in all treated areas.

MEPHI MASTER’S STUDENT PARTICIPATES IN BOREXINO EXPERIMENT

Radik Nugmanov, a first-year master’s student of the Department of Elementary Particle Physics, got an internship at the international neutrino experiment Borexino and told us about his trip.

«In November, I went to the National Laboratory of Gran Sasso in Italy. There I worked in the international experiment «Borexino.» It is a neutrino detector based on a liquid organic scintillator, created to study the Sun by the flow of neutrinos, as well as the properties of the neutrinos themselves.

The purpose of my trip was to continuously monitor the operation of the detector and to eliminate technical faults that occur during its operation. This is my third trip to Gran Sasso, so for me the whole situation was familiar and I already knew exactly what to do if there were any problems in the data collection process.

I lived near the lab in Assergi. This is a very picturesque place, which is in the National Park of Gran Sasso. The local views are fascinating! It was very nice to enjoy this scenery every time on the way to the laboratory and back.

During three weeks I spent there, I went downhill to the lab, watched Borexino’s work, and conducted primary processing and testing of the data collected by the detector, and fixed technical faults in some cases. I gained new experience in working with electronics and communicating with foreign colleagues. I also performed work on calibrating the detector, during which the photoelectronic multipliers of Borexino are given signals from LEDs. LEDs calibrate the electronics that process the signals of the photomultiplier tube.

In the laboratory I saw many other experiments, such as DarkSide, Gerda, Xenon1t, etc. All of them have impressed me with their size and the scientific challenges they solve.

I have completed all tasks in full. The Borexino detector worked steadily and collected the data that will be later analyzed for the availability of the neutrino signal appeared as a result of the CNO-cycle reaction on the Sun.”

INTERNATIONAL COOPERATION

JOINT EDUCATIONAL PROGRAMS

Leadership of MEPhI and D. Serikbayev East Kazakhstan State Technical University held a meeting to discuss new areas of joint educational programs.

EKSTU rector Zhasulan Shaimardanov confirmed that both sides consider necessary to create new joint educational programs in the field of electronics and IT technologies. Rector of MEPhI Mikhail Strikhanov noted: “The strength of East Kazakhstan University is its practical orientation and close connection to the employer. It brings us together. With regard to MEPhI, the strong point is a good theoretical base, which makes it possible to prepare students with capable of adapting to new labour market conditions. Both universities work under task orders of the industry. In this sense, it is very mutually reinforcing. Our plans for the future include diversification of educational programs. ”

Cooperation between MEPhI and EKSTU has been under way since 2017. This year, in the framework of the supplementary agreement signed on April 8 to the Memorandum of Cooperation, four programs for joint training of bachelors and masters were launched. Programs are implemented according to the model of included education: Kazakhstan students are taught at the undergraduate and graduate programs of MEPhI with parallel development of educational modules (courses) at EKSTU.

In the educational systems of Kazakhstan and Russia there are controversies in the volume of hours allocated to certain subjects. In this case, sddditional efforts are required to optimize and develop a unified approach to comply with the laws of both countries. Nevertheless, despite the difficulties, the bachelor’s program of double diploma “Physics and Chemistry of Materials and Processes” has already been launched in the current academic year for training personnel in the field of the nuclear industry. The program trains 49 people. Graduates of the program will receive two diplomas — EKSTU and MEPhI.

“On the one hand, the double diploma program allows students to have a close relationship with their future place of work, because they are still students of Kazakhstan university and can practice at the enterprises of Kazatomprom. On the other hand, they can study at MEPhI and get really very high competency, ”said Tatyana Leonova, Vice-Rector of MEPhI.

The working group of EKSTU and MEPhI discusses the prospects for the development of new joint educational programs for undergraduate and graduate programs in the field of information technology, instrumentation and materials science.

«We do not stop developing cooperation, despite significant achievements. We are thinking about new areas of cooperation. This will not only be material science: we plan to create programs in the field of IT and electronics. In addition, there are plans to prepare joint teams for WorldSkills competitions, ” added Tatyana Leonova.

ALL FLAGS WILL BE WITH US!

The anniversary festival of foreign students “All flags will be with us!” was held at MEPhI.

The first part of the festival was held at the Boiling Point-Obninsk. There were organized a meeting between the heads of divisions and representatives of the State Atomic Energy Corporation Rosatom and MEPhI foreign students. Representatives of the nuclear industry enterprises such as Atomstroyexport, Rusatom, Rosatom Technical Academy, Rusatom Service, Rusatom Overseas, Akkuyu NPP spoke about the employment opportunities of graduates and answered questions from potential employees.

The second part of the forum was held in the hall of the House of Culture, the walls of which are remembered by many prominent pioneer atomic scientists who 65 years ago launched the peaceful use of atomic energy. It is symbolic that the anniversary of the festival of foreign students coincides with the anniversary of the launch of the world’s first nuclear power plant in Obninsk. This year, the event was attended by more than 400 students from 50 countries studying at the Moscow and Obninsk sites of MEPhI.

Traditionally, students presented their country to the festival guests in the lobby: they prepared national dishes, brought souvenirs and booklets, and made photo and video presentations.

A great end to the festival was a concert that began with a march of participants with the flags of their countries.

Vice-Rectors of MEPhI Vladimir Uzhva and Tatyana Leonova made welcoming speeches, as well as Director of Educational Programs, Human Resources Department of the State Atomic Energy Corporation Rosatom Valery Karezin, Deputy Head of Obninsk Administration for Social Affairs Tatyana Popova, and representatives of the Embassies of Zambia, Jordan, Turkey and Vietnam.

“The best thing you can get at MEPhI is not only a worthy world-class education but also true friends and colleagues in the future. Be ambitious, happy, in love. We hope you keep MEPhI in your heart throughout your life, ”said Tatyana Leonova, Vice-Rector of MEPhI.

The concert of foreign students, their bright and original numbers were marked by a spirit of celebration and creativity. It did not leave anyone indifferent — the audience did not hide their delight.

REGIONS

FRESHMEN TTI MEPHI DEDICATED TO STUDENTS

Freshmen of the MEPhI Trekhgorny Technological Institute took part in the ceremony «Initiation into Students - 2019». Distinguished guests, teachers and parents also joined the celebration.

Guests of event — Director General of "Priborostroitelny Zavod" Gennady Komarov, representatives of Trekhgorny administration and the clergy — addressed congratulations to the participants and give some parting words.

The acting director of TTI MEPhI Tatijana Trufanova opened the ceremony, presenting freshmen traditional gifts. The heads of the educational departments of secondary vocational and higher education handed record books to the students.

This year, the main theme of dedication was the Year of the Theater in Russia. Students played a performance: a physics, a lyric and a programmer create a simulation. As a result of the failure, they fall into different times, eras and countries with various culture and traditions. While the main characters were looking for a way out of this situation, ten groups of first-year students presented humorous scenes, dance performances and original numbers. Everyone remembered the performance of Victoria Nagornova: young girl flanked by Cossack sabers. It caused a storm of applause from the audience.

The event culmination was the student oath. Traditionally, the graduate team invites first-year elders to the stage. All freshmen vowed to be worthy of the title —a TTI MEPhI student.

The dedication ceremony is a definite School of Curators TTI MEPhI' work result. The stage of adaptation measures for freshmen-2019 is completed. Ahead — the first session!

CITIUS, ALTIUS, FORTIUS!

RISING STARS OF CHEER-SPORT

In mid-November, the All-Russian cheerleading competitions among students "Rising Stars" took place in the CSKA CS "Gaming".

MEPhI students Ekaterina Dolina (group B18-402) and Julia Romanova (group B18-103) became silver medalists in the discipline of Cheer-freestyle Doubles, and Daniil Nalitov (group B18-402) and Anna Zhosan (group C15-501) became silver medalists in discipline Cheer Hip-hop Doubles

The competition was attended by students from 13 strongest university teams.

WOMEN'S RUGBY SEASON COMES TO A CLOSE

Sports complex of Lomonosov Moscow State University hosted the final games of the second round of the Moscow women's student rugby competition-7.

In a desperate struggle, MEPhI students let forward the home team - students of Moscow State University and the women's rugby team from Moscow State Pedagogical University

The result of the game for our team — third place.

However, the result of the first round, namely 2nd place, inspires optimism and hope for position's improvement at the end of the entire Championship.

On the same day, the winners of the Moscow Rugby-7 Championship' last season among female student teams were awarded. MEPhI team won the third place!