



World of MEPhI

WE ARE FROM MEPhI!



WHAT CAN FORCE YOUNG PEOPLE TO GET UP SO EARLY IN THE MORNING? IT'S A FRESHMAN DAY! THE 1ST OF SEPTEMBER BECAME THE REAL HOLIDAY FOR MEPhI NEWCOMERS.

Happy eyes and smiles of newcomers gladdened lecturers, undergraduates and numerous guests, who came that day. And there was a good reason to be proud: this year MEPhI has received really decent and very talented guys, including winners of relevant competitions, as well as guys who have certificates or diplomas with honors. Well, as usual!

On that day bright, colorful and very interesting program was prepared for new students. Everything started with a traditional procession to the Museum-reserve "Kolomenskoye", where students saw a theatrical performance, prepared jointly by staff of the Museum and the University. A massive and colorful performance was

given near the walls of the Palace of Tsar Alexei Mikhailovich. The celebration continued in the MEPhI Assembly hall with a large concert prepared by creative teams, and ended at the entrance of the home University with the traditional ceremony of initiation into MEPhI students.

ATOMIC ANNIVERSARY

From the 1st of September the exhibition "70 years of the nuclear industry. A chain reaction of success" has started in the Exhibition Hall "Manege". It is timed to the 70th anniversary of the Russian nuclear industry. The exhibition was organized by the State Corporation "Rosatom".

The exhibition presents unique documents and exhibits related to the history of development of nuclear industry in the USSR and Russia. The exhibition space is divided into several areas, representing a single complex of installations, dedicated to important milestones in the development of the industry. Organizers have tried to present the entire history of the Soviet atomic project, as well as the current state and development prospects of the industry, which is considered to be one of the most technologically advanced and competitive in the world market. A separate stand is devoted to a

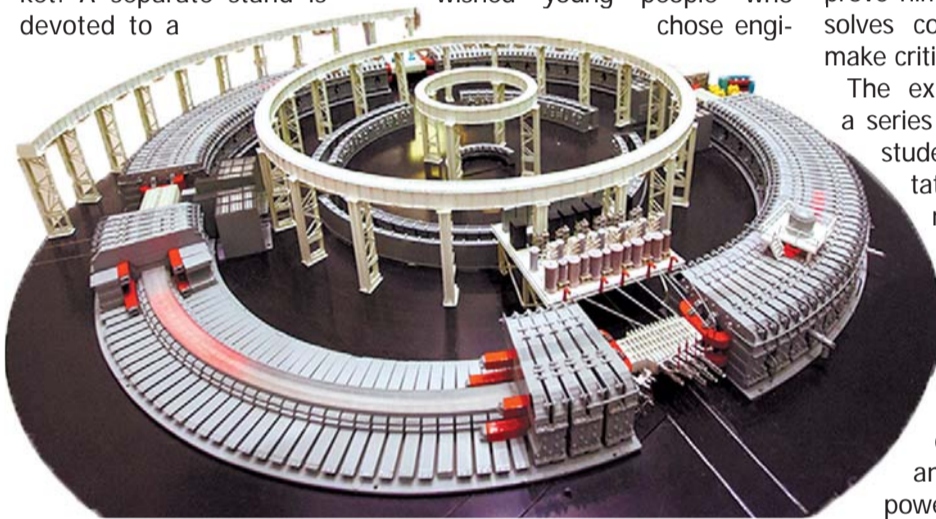
leading University of the nuclear industry – MEPhI.

One day the exhibition was visited by a group of veterans of the nuclear industry. The Chairman of the Board of the Russian public movement of veterans of nuclear industry Vladimir Ognev praised in his speech the role of the Soviet people, who directly participated in the creation of the domestic nuclear industry. He also noted the contribution of MEPhI in the training of highly qualified personnel for the nuclear industry. Taking the opportunity, Vladimir Ognev congratulated students of the University with the new academic year and wished young people who chose engi-



neering profession not to forget about the cultural component: "Because it is a cultural, spiritually developed person who can prove himself better in science, solves complex problems and make critical decisions".

The exhibition also included a series of lectures for MEPhI students where representatives of major departments and research centers of the University, as well as employees of industrial enterprises of the State Corporation "Rosatom" told students about the status and prospects of nuclear power development.



HEAD OF INTERNATIONAL COLLABORATION HADES JOACHIM STROTH VISITS MEPhI



In early October 2015 a leadership of the collaboration HADES (GSI, Darmstadt) will consider the application of MEPhI to become an experiment participant. In connection with the forthcoming event, the head of the collaboration Professor Joachim Stroth conducted an official visit to the University, during which he met MEPhI leadership, scientists, postgraduates and students.

Today collaboration employs about 110 physicists from 19 institutions from

ten European countries. MEPhI hopes to become the first University from Russia, which will be a part of the international collaboration HADES.

Participation in the HADES experiment will give MEPhI scientists an opportunity to significantly expand the range of available energies for the search of new forms of nuclear matter. And for undergraduate and postgraduate students it's a chance to work in the most modern experiment

in Germany in the field of relativistic nuclear physics.

The HADES spectrometer was created in 2000 at GSI (Darmstadt, Germany) by major European collaboration for systematic study of properties of hadrons in hot and dense matter at the accelerator SIS-18. The installation has unique options – great acceptance and high mass resolution. Its main task is registration of electron-positron pairs produced in

nucleus-nucleus collisions. Big penetrating ability of these dileptons, formed at different stages of the nuclear collision, could elucidate underlying properties of matter such as mass source of dilepton, modification of particle properties in nuclear environment, restoration of chiral symmetry, as well as to explore new possible states of matter, such as mixed quark-hadron phase and quark-gluon plasma.



GOLDEN MEPHI SCIENTISTS

Rome International Center for Materials Science (RICMASS) awards gold medals named after an outstanding Italian physicist Ugo Fano to MEPhI alumni.

Mikhail Eremets, who graduated MEPhI Department "Solid state physics" in 1973, received the award for outstanding experimental observation of super-

conductivity in H₂S at a temperature of 203 K at high pressures. The second awardee is a graduate of Engineering and physical faculty of the Moscow Mechanical Institute of 1953, Academician Lev Gorkov for outstanding contribution to the theory of superconductivity.

The decision about award was made at the International conference "Quan-

tum in Complex Matter: Superconductivity, Magnetism and Ferroelectricity" (Ischia, Italy). Presentation of medals will take place in December 2015 in Rome.

Lev Gorkov currently works at the University of Florida (USA), and Mikhail Eremets heads the laboratory at the Max Planck Institute (Mainz, Germany).

FORSAGE-2015 – FLIGHT OF SCIENCE

THIS SUMMER MEPHI STUDENTS TAKE PART IN INTERNATIONAL FORUM OF YOUNG NUCLEAR POWER ENGINEERS

At the end of July 2015 Kaluga region has hosted the international forum of young power engineers and Industrialists "Forsage". This year was the anniversary for the event – it is already five years as it attracts more than 500 participants and 150 invited guests who share their experience with young specialists of the nuclear, fuel and energy industries. In 2015 "Forsage" was attended by 800 delegates from seven countries.

The main objective of the forum is to create a single com-

munication environment, aimed at formation and development of creative thinking and technological culture, and dissemination of principles of culture of lean production and efficiency improvement.

One of the main events of the forum was a visit of the General Director of the State Corporation "Rosatom" Sergey Kiriyenko, who gave a lecture on the Rosatom strategy on a global nuclear energy market, answered questions of participants and conducted two train-

ings on improving efficiency and teamwork.

There were nine flows at "Forsage-2015": Personnel reserve of Rosatom; Innovative flow; Social partnership; International flow; Production systems of Russia; Energopolis; Technopolis; Rosseti and Information flow. All forum participants received new knowledge, skills and abilities by attending lots of different mini-trainings, business games, master classes and seminars from leading experts in the nuclear industry.

"International flow" was presented at the forum for the first time. It was organized by MEPhI and the CIS Internet-school of remote nuclear education on the initiative of the CIS Committee on the peaceful use of atomic

energy. Within this interaction MEPhI is the basic educational platform for training specialized personnel. The flow was headed by Pavel Belousov, the Deputy Dean for scientific affairs of a Physics and Energy faculty of INPE MEPhI. Also he is a Head of the EurAsEC online school and a Head of a working group on personnel training for EurAsEC member states.

A first-year student of a MEPhI Faculty "Cybernetics and Information Security" Yuri Timofeev was among participants of the Youth forum "Forsage-2015", who is also a sound engineer of the MEPhI radio "Impulse". At the invitation of radio "Country of Rosatom" he took part in the Information flow.



Yuri has shared his impressions with us: "A lot of distinguished experts are coming here to give us a lot of useful information. Besides teaching there are a variety of recreational activities, games. One day we even built airships from balloons and frames. And the winners of this contest received an opportunity to fly in a helicopter with Sergey Kiriyenko! In general I really like to be here. Get out of the comfort zone, live in tents with 800 such enthusiasts and, the main thing – to solve a common task, it's a real fun!"



MEPHI FOR DEVELOPMENT OF FRIENDSHIP WITH ROSATOM!

For the first time a team of the National Research Nuclear University “MEPhI” has become a member of the Rosatom Festival of Friendship. It is symbolic that this year the event was held under the auspices of the remarkable date – the 70th anniversary of the Russian nuclear industry.

On August 7, a sports camp “Zhdanovec” in the Nizhny Novgorod region traditionally opened its doors to the XIII Rosatom Festival of Friendship. The festival was attended by delegations of enterprises and supporting universities of the State Corporation: RFNC-VNIIEF, Sedakov Research Institute of Measuring Systems, Afrikantov Experimental Design Bureau

for Mechanical Engineering, Nizhny Novgorod Engineering Company “Atomenergoproekt”, MEPhI, Lobachevsky State University of Nizhny Novgorod, Alekseev Nizhny Novgorod State Technical University.

After the opening ceremony participants were involved in an intensive sports program. It included a mixed relay, competitions on mini-football, basketball, volleyball, bad-

minton, table tennis, rafting, chess and tug-of-war.

This year MEPhI delegation, which took part in this large-scale friendly sports competition for the first time, became a worthy opponent for regular participants of the festival.

Future engineers-physics immediately declared their intention to win, and they had every reason for that. Great experience of sporting victories helped athletes to take prizes. Successfully beating many rivals, MEPhI representatives took high positions in standings: the second place in streetball and chess, and the third in table tennis. In addition MEPhI girls took the

second place in the individual championship in women's badminton.

Such a friendly sports rivalry is only for good for domestic

science. It is that place where future scientists and representatives of the State Corporation “Rosatom” establish future effective cooperation.



STUDENT OF STI MEPHI IS THE STRONGEST IN SIBERIA!

Valery Pimenov – a student of the 6th year in Seversk Technological Institute MEPhI – has won the Championship of Siberia in Boxing.

In August Kyzyl (Tuva Republic) hosted the Championship of Siberia in Boxing among students, dedicated to the memory of a coach A.A. Salagaj. Within three days 45 students from Tomsk, Omsk and Novosibirsk regions, Krasnoyarsk and Zabajkalsky krai, Republics of Khakassia and Tuva participated in the competition.

The student from STI MEPhI (speciality “Chemistry and technology of

materials of modern energy sector”, recipient of a grant of the Russian Federation President) became the winner of the Championship, taking 1st place in the weight category of 81 kg. Valery Pimenov successfully combines study with sports activities, being an instructor in a Sports School of the Olympic Reserve “Yantar” (Amber). He was awarded a title “Master of sports of Russia”.

The Organizing Committee awarded Valery Pimenov a diploma and prize “For the will to win”.

STUDENT OF BITI MEPHI IS WORLD CHAMPION IN POWERLIFTING

A student of Balakovo Engineering and Technological Institute MEPhI (BITI MEPhI), the master of sports Maxim Chupakhin has become a world champion in powerlifting among juniors in the weight category up to 59 kg in triathlon.

Competitions, attended by more than 220 athletes from around the world, were held in Prague from 31st of August to 5th of September. 34 sets of medals were played

during six competition days. Russia was represented by 29 athletes from different regions. In the final there was a very tough competition between two representatives of Kyrgyzstan, an athlete from Japan and Maxim Chupakhin. Everything was decided by the last tugging. Results by movements: 240 kg squat, 150 kg press, 247.5 kg tugging. In the end Maxim has taken the top spot of the standings.

