



World of MEPhi

September-October' 16

**MEPhi: USER MANUAL
FOR FOREIGN STUDENTS**

P.3

FROM HEART TO HEART

P.6

**SCIENCE FESTIVAL:
OPEN NEW WORLD!**

SCIENCE FESTIVAL: OPEN NEW WORLD!



From October, 7 to 9 a science festival **NAUKA 0+** has been held in Moscow. One of the key venues of the festival was MEPhI, which hospitably opened its doors on October, 8 for everyone. The program included events for schoolchildren, their parents, and teachers – such as an exhibition of MEPhI youth projects, scientific-popular lectures, excursions to laboratories and research centres of the university.

The festival was opened by the welcoming speech of MEPhI vice-rector, Dr. of Phys. and Math. Sc., Professor N.I.Kargin, who also gave a lecture on "Nanotechnologies – breakthrough to the future". There were also lectures by Dr. of Phys. and Math. Sc., Professor A.A.Petrukhin "Cosmos and cosmic rays", and by Dr. of Phys. and Math. Sc., Professor V.Yu.Timoshenko "Safe nanoparticles and new physical methods in biomedicine".

Moreover, especially for guests of the occasion, there was a link-up with France: Professor of the Laboratory for laser research at Marseille university, research supervisor of MEPhI Institute of Engineering Physics for Biomedicine A.V.Kabashin told about his experience.

A great interest among the audience was provoked by lectures of Professor at George Mason

University (the USA) and MEPhI A.V.Samsonovich "About emotions' estimation, sense charts, machine conscience and other "impossible" things" and of Dr. of Phys. and Math. Sc., Professor A.P.Kuznetsov "Laser technologies: from quantum metrology to thermonuclear energetics".

After listening to the presentations of leading MEPhI scientists, everyone had a chance to ask a question as a part of a briefing "Science of the future: open a new world!".

– Is there a place for students in scientific developments?

N.I.Kargin: We have schoolchildren from the 8th year at school. Science needs youth drive.

V.Yu.Timoshenko: Many students become co-authors of scientific publications, while getting Bachelor's degree, participate in scientific conferences, and we welcome it.

– What do you think about target preparation in education?

N.I.Kargin: There is an interdepartmental program on photonics in Russia. A major breakthrough will be made in 3 years. Future belongs to laser technologies. You will be guaranteed an interesting job.

– We are trying to artificially copy each thing from nature. Is it possible to make an "iron" human brain?

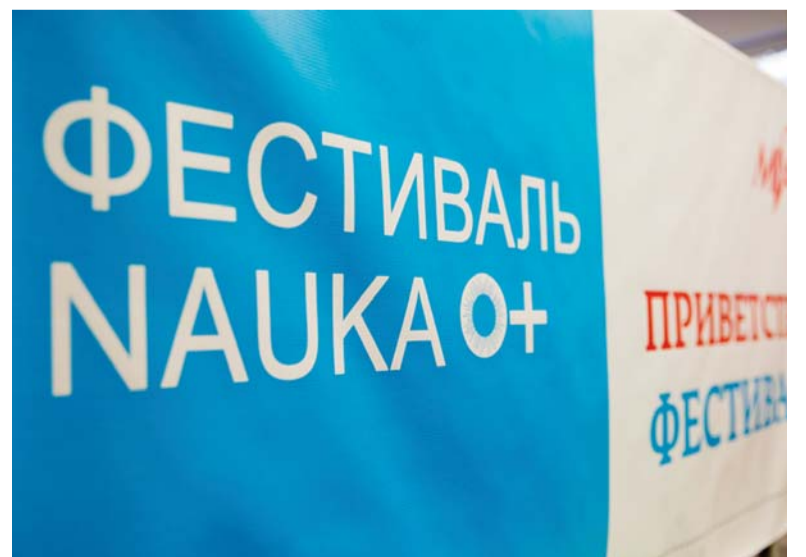
A.V.Samsonovich: We lack understanding of how the brain works. There're enough computing resources. There is a reactive approach when first the neuron anatomy and bonds between them are studied; scientists try to achieve similar behaviour. The approach is self-defeating without the understanding of the managing principles. We need to understand which function parameters are important, and which are not.

– Should we copy a brain or a human thought?

N.I.Kargin: There is nothing meaningless in nature. We should understand principles of brain's work. We watch films where robots defeat people. Technically we are prepared, but the society is not ready yet.

A.V.Samsonovich: I wouldn't agree with the concept of post-apocalyptic films. Artificial intelligence is of the least danger for people. The major threat is from people themselves. Artificial intelligence should help us be better and smarter.

In the end, after scientific-popular lectures, experiments on physics and chemistry were waiting for the guests of the festival, which were welcomed both by schoolchildren and their parents.





MEPHI: USER MANUAL FOR FOREIGN STUDENTS

On October, 1 the international friendship club "MEPHI unity" has held the first official event of this year – "MEPHI: user manual for foreign students".

The event was held for people from more than 30 countries. The Head of the Youth policy Department Turchaninov A.K. and the Head of the Department of foreign stu-

dents O.N.Petukhova spoke about the life of foreigners in Russia, gave advice, so that students got acquainted with Russian culture and told about their one.

Official part was followed by informational presentations of university unities and a concert.

The event was opened by MEFHI male choir with «Gaud-

eamus» student hymn, continued by a national Jordanian dance "dabke", which is usually performed before wedding, a Vietnamese dance "The village picture", and a Bashkiria national dance «Капа юфра». The musical part was positive and energetic thanks to guys from Indonesia, Turkey, Jordan, who performed "Katyusha" apart from their national songs. Students of the college affiliated to music conservatory played the cello and the piano.

The soloist of the enthoproject "Zaman" played kurai, a national Bashkiria instrument.

After the concert the audience was divided into teams to participate in a quest-acquaintance with MEFHI. They got to know the rich history and territory of our university and made friends with each other. People from the Moscow Aviation Institute Alfiya, Alfira, and Zulfar also participated in the quest.





FROM HEART TO HEART

On October, 2 two Moscow parks were filled with warmth and smiles: the V Jubilee fundraising festival of help for children "From heart to heart", organized by students of leading Moscow universities, took place in parks Kolomenskoe and Kuzminki.

The festival was first organized by MEPHI students in 2012, and each time organisers make it brighter and greater. This year the festival was held in Saint Petersburg and Volgograd, and in Novomolokovo of the Moscow-area, finishing by major celebration in Moscow, gathering students from all parts of Russia. General coordination of the festival was conducted by MEPHI students.

25 venues were waiting for the guests of the festival: animators, stilt-walkers, illusionist, face painters, also a chemical and light show, a soap bubble show, insurance information for grown-ups, dance, musicians' concerts, painting, hand-made and many sports contests.

The highlight of the programme was the performance of more than 20 participants of the "Voice. Children" show, astonishing with their sincerity. "I was amazed. The time nearly stopped," one of the festival participants said.

Guests could also take part in the workshop of "Dancing" show participant Anastasiya Cherednikova and watch for free performance of "Khleb"

band, "Neposedy" and other musical bands.

All the money, raised in Moscow areas in 2016, which is practically 240000 roubles, will be directed to the foundation of help for children with leaver disease "Life as a miracle".

This year park Kolomenskoe (area, organized by MEPHI students) was visited by more than 7000 people (2 times more than last year), more than 2000 guests were in Kuzminki, which means that the festival is becoming traditional for all Moscow citizens, caring about social problems.

The organisers are grateful to all the guests and participants of the festival.

