

## Cooperation between Key Technical Universities of Donetsk and Lugansk: New Prospects



The Rector of Donetsk National Technical University Prof. K. Marenich and the Rector of Lugansk National University named after Vladimir Dal (LNU) Prof. V. Ryabichev signed a collaboration agreement on September 7<sup>th</sup>. It was done at the I International Educational Forum “Education and Today's Challenges: Tomorrow Starts Today” hosted by the Lugansk People’s Republic.

The Rector of LNU said: “We are signing an agreement between two oldest universities today. No doubt they have their big history and they have proved it. Today they are key and the most powerful universities in the LPR and the DPR.”

The agreement signing opens a new stage in strengthening the scientific and educational cooperation. It covers students’ exchange according to the corresponding programs, joint preparation of textbooks and manuals, participation in different conferences, assistance in high quality personnel training at university-partners, interaction in accordance with retraining programs and internship for specialists and academics.

“I am sure the agreement will open new prospects: our postgraduate students will have extra opportunities to work at their dissertations. We also plan to exchange scientific plans, create integrated curricula to train students. The most important thing here is to improve quality as the future of our Republics, their industry and branches depend on it”, said Prof. Marenich.

According to Prof. V. Vitrenko, the Vice-Rector in Research and Innovations of LNU, the agreement will expand the university cooperation in exchange of training

methodology and information on promising trends in hard and applied science which are developed at both universities and in which the researchers plan to have contacts.

The agreement also specifies organization of international conferences, seminars and symposia in the DPR, LPR and Russia and publication of monographs and papers in scientific and technical journals and proceedings.

The two universities have been cooperating for many decades, and the agreement opens even wider opportunities.

### **DonNTU's New International Agreement Signed**

Taganrog Institute of Management and Economics and Donetsk National Technical University signed an agreement on cooperation and a double-degree program on September 20<sup>th</sup>. It is aimed at developing scientific and technical interaction, expanding of creative links, assisting in international educational process, making business contacts, exchanging of information and integrating into the university education world system.



DonNTU's delegation was represented by Prof. I. Navka, the Vice-Rector in International Links, Dr. V. Zhilchenkova, the Dean of Engineering and Economic Faculty, Dr. O. Sharnopolskaya, the Head of the Department of Management and Business Law, Dr. I. Kandaurova, the Head of the Department of Business and Personnel Administration, and Dr. A. Kravchenko, the Head of the Department of Economics and Marketing.

The main clauses of the agreement are joint supervision and common profile and Master's program development for both university graduates to get double degrees in economics, management, and personnel administration; joint research projects; personnel retraining; taking postgraduate courses at both universities; training methodology exchange, etc.

### **DonNTU's Researchers Participate in the Jubilee Conference "Mechanical Engineering and the Technosphere of the XXI Century"**

Sevastopol hosted the 25<sup>th</sup> jubilee conference "Mechanical Engineering and the Technosphere in the XXI Century" on September 1-16<sup>th</sup>. DonNTU's researchers took part in it. The conference has welcomed about 5500 representatives of 33 countries of the world during the years. These are young and key researchers, academicians, experts from industrial companies, and representatives of ministries and boards.

The conferences helped intercommunication among different universities, exchange ideas and practice which are implemented at enterprises, publish papers at different



journals and proceedings, hold methodological conferences and seminars in different countries and form friendly contacts.

More than 35 doctoral and 120 candidate dissertations were presented at the conferences and 80 proceedings were published.

This year the conference has been sponsored by the Ministry of Science and Education and the Ministry of Industry and Trade of the DPR, the International Union of Manufacturing Engineers, and the Russian Association of Manufacturing Engineers. The Deputy Minister of Education of the DPR Prof. A. Anoprienko made his presentation at the plenary meeting. Its issues covered a wide range of problems and caused an active discussion. As the presentation was of great interest the conference made a decision to organize an additional seminar on the issues.

The organizers emphasized the participation of the Honorary Chairperson of the Russian Association of Manufacturing Engineers Prof. A. Suslov (Moscow) and the Honorary Doctor of DonNTU Prof. A. Khandozko (Bryansk) in all the conferences.

This year the conference has been attended by delegations from seven countries. Those from DonNTU, LNU, Bryansk State Technical University, and St. Petersburg Polytechnic University named after Peter the Great, Moscow Power Engineering Institute, Ural State Mining University, and the Academy of Science of Uzbekistan were the most numerous.

The conference atmosphere was creative. Many topical problems of mechanical engineering and technosphere and international collaboration in them were discussed; the related information was exchanged. The promising tendencies of modern technology development, urgent tasks in creation of progressive technological schemes and their elements, theoretical and experimental research were specified.

Another congress of the International Union of Manufacturing Engineers was held in the frameworks of the conference.

The conference is aimed at consolidating specialists, researchers, and representatives of industrial companies to develop science, engineering and the technosphere under the world complex geopolitical and global economic processes.

### **DonNTU's Academics Participate in Astrakhan Conference**

Astrakhan State Technical University has hosted the II International Youth Conference "Information and Communication Technologies: Modern Achievements" organized by its Institute of Information Technologies and Communication.

There were participants from universities of St. Petersburg, Volgograd, Saratov, Donesk and Makeevka at the conference.

The prospects of cooperation between the universities taking part in the conference and joint projects (according to the agreement signed in November 2017) were discussed at the plenary meeting.

DonNTU's representatives, Dr. Bodnar and Dr. Nikolaenko (both are Deputy Deans of the Faculty of Computer Science and Technologies), made their presentations on research at DonNTU and program and imitation models of transport control intellectual system elements.



### **DonNTU's Academics Participate in the Forum of Industrial Automation**

St. Petersburg hosted the Industrial IT Forum-2018 on September 13-14<sup>th</sup>. It was one of the largest events in the sphere of industrial automation in the North-Western Federal District of the RF. Academics of DonNTU N. Chernyshov and T. Nizhenets took part in it. Their participation had been organized and sponsored by the charity fund "For the Donbass Future".

The Forum program included an exhibition, the plenary meeting, and breakup group meetings related to the industrial automation issues and new tendencies in the field.



More than 300 experts took part in the panel discussion "Modern Technological Trends: What is to Come Tomorrow?" The speakers discussed the issues of the digital industry 4.0, artificial intellect, big data, block chain technology and how new methods and their aspects influence industry development.

The forum had four breakup

groups:

- Future factories and digital industry: trends, challenges, and prospects;
- IT infrastructures;
- The lecture of Prof. Mauergauz, the author of the book "AP&S in Manufacturing and Delivery Chains";
- Industrial Subdivision Digitization Tools.

Mr. Chernyshov and Ms. Nizhenets took part in the work of the first two and made their presentations "Life Cycle Control and Design" and "Cyber Security in Industry".

The panel discussion "Company Digital Transformation" crowned the Forum. It covered the issues on different points of view on the digital transformation; a new design paradigm changing the company business model; global competitive

advantages given by the digital transformation; organizational barriers and the way of their overcoming.

The technological LPM hackathon was also organized in the frameworks of the Forum. The issues of industrial manipulators in robotics and numerical control devices were discussed there.

Our participants made the conclusion that introduction of modern automation means into works was the necessary condition of company successful development. It is impossible to do without highly qualified specialists in the field of automation, electronic and technical system control. That is why we need to change curricula and renew training methodological and material basis regularly.

### **DonNTU's Teachers Participate in the International Congress in Intellectual Systems and Information Technologies (IS&IT'18)**

The International Congress in Intellectual Systems and Information Technologies (IS&IT'18) took place in Gelendzhik (Russia) on September 2-9<sup>th</sup>.

Prof. A. Grigoryev from the Faculty of Computer Science and Technologies participated in it.

The Congress was organized under the aegis of the Russian Association of Artificial Intellect, the Russian Fund of Fundamental Research and South Federal University of Russia.

IS&IT'18 was the international forum of the theorists and the practitioners working in the field of development and application of the artificial intellect systems and interfaces. Participants from Russia and abroad were given a chance to present the results of their latest research and developments.

Prof. Grigoryev made useful scientific contacts with a number of participants from Nizhni Novgorod, Moscow, Taganrog, and Irkutsk and got invitations to take part in some conferences and publish his papers in some journals in Russia.

In his turn, Prof. Grigoryev invited them to take part in the scientific and practical conference “Programming Engineering: Methods and Technologies of Development of Data Processing Systems” at DonNTU.

The agreement on getting free licensing program packages to be used in training at DonNTU was also achieved.



### **Cooperation Goes on**



Prof. V. Karabchevski took part in the international scientific and methodological conference “Coordination of Work of Technical Universities in the Field of Improving of Students’ Engineering and

Graphic Training” held at Donskoi State Technical University in September. He made his presentation there which the participants showed interest in. Prof. Karabchevski got the invitation to take part in the seminar organized by Nizhegorodski State Architecture and Construction University.

### **Students of the Donetsk People’s Republic Take part in the International Youth Educational Forum “Eurasia” in Orenburg (the RF)**

Orenburg hosted the International Youth Educational Forum “Eurasia” in Orenburg on September 4-10<sup>th</sup>. The event united more than 1000 Russian and foreign participants from 77 countries of the world ( Japan, Serbia, Bulgaria, France, Armenia, Georgia, Israel and others) and 80 regions of Russia. The main idea of the Forum was a dialogue between youth organizations and citizens of the continent of Eurasia oriented to interaction of Russian speaking foreigners and citizens of Russia ready to cooperate.

The delegation of seven people represented the DPR at the Forum. Students of DonNTU, Donetsk National University, Donetsk Academy of Management and State Administration under the Head of the DPR, Gorlovka Institute of Foreign Languages, and representatives of youth organizations of the DPR were among them. Their participation was sponsored and organized by the Russian Centre.

There was an open dialogue between the participants and the Head of the Federal Agency on Youth Affairs A. Bugaev and the Deputy Head of the Federal Agency on the CIS Affairs and those of Compatriots Living Abroad and in Humanitarian International Cooperation Mr. M. Bryukhanov organized in the frameworks of the Forum.

Ms. Zakharova, the official representative of the Ministry of Foreign Affairs of the RF, noticed during the television space bridge that the Forum was the unique diplomatic platform to strengthen international links, the universal format on interaction of youth from different countries who are getting more and more interested in foreign policy.

The issues in community of young compatriots living abroad, youth self-government of Eurasia were discussed at different platforms. The speakers drove to the conclusion that youth played an important part in overcoming of the global challenges.

All students took part in the sports party, youth festival “Street Life”, walked down the cable road to the opposite bank of the Ural River, and were on the bridge which joins Europe and Asia. All the visitors who were on the Asian bank had a special sign in the symbolic migration sheet.

The delegates had also an excursion “Heroes’ Motherland” to the museum of the Hero of the Soviet Union Musa Dzhahil.

All the delegates of the DPR got their certificates of the Forum participants.

### **Cooperation with Ural Federal University named after the First President of Russia Mr. Yeltsyn Goes on**



Students of DonNTU whose major is business information science had their training at Ural Federal University (UrFU) in February-June.

They attended lectures, seminars and practical classes and worked in the team of the Design Office of UrFU. They also participated in the IT open day “IT-Peak” in which representatives of key IT companies of the region took part.

Our students gained valuable knowledge and practical experience in interaction with the partners from UrFU.

### **Science and Technical Library of DonNTU Gets Books as a Gift from Samara**

The Science and Technical Library of DonNTU has got a parcel with books from Samara. There were three textbooks of Samara State Technical University in it. The parcel was accompanied by the letter written by the main author of the books Dr. Sergey Fedosov in which he asked the library to get the books as a gift. The co-author of one of the textbooks is Dr. Peshek from Koshitsa Technical University (Slovakia).



The textbook “Welding Procedure Fundamentals” is the main one on the subject at 20 key universities in Russia. The monograph on kinetic indentation has been published at MSU. The laboratory tutorial “Engineering Geodesy” (leveling devices and principles) will be helpful in mastering the subject.

The three textbooks have important scientific information to do a research in metallurgy, power engineering, manufacturing engineering, and geodesy. The joint with Dr. Peshek book reviews foreign papers in material indentation issued during last 15 years.

The presented books are valuable not only for development of engineering and education, but also a sign of close interaction between science and industry.

The library staff is very grateful to the authors of the books and Dr. Fedosov personally for the invaluable contribution into the library holdings. The books are sure to be useful in training of highly qualified specialists at DonNTU.

The Newsletter is prepared by the International Office of DonNTU.

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