



XXI INTERNATIONAL SCIENTIFIC AND TECHNICAL CONFERENCE MECHANICAL ENGINEERING AND TECHNOSPHERE OF THE XXI CENTURY: YESTERDAY, TODAY, TOMORROW



The XXI international scientific and technical conference MECHANICAL ENGINEERING AND TECHNOSPHERE OF THE XXI CENTURY was held in Sevastopol on September 15-21st. The International Union of Mechanical Engineers, Donetsk National Technical University and some organizations of the world were its organizers.

The inspirer of this important forum of scientists is **Prof. Alexander Mikhailov**, Deputy Director of the Institute of International Collaboration, the head of the Department of Manufacturing Engineering.

The first conference was held at the beginning of the 90s that was not the best period for the national economy of Ukraine and the CIS. The mechanical engineering itself faced a lot of difficulties because of inner contradictions in economics and production, many plants were about to be shut down. There was information vacuum in the field of scientific and technical development of mechanical engineering. That is why to make up the information lack the conference, at which the necessary contacts could be restored, was organized.

Due to the active position of the scientists from Ukraine, Russia and Belarus the third conference gained the status of the international one and it assisted in deepening collaboration and information exchange. Donetsk Regional State Administration and heads of industrial companies supported the conference.

The continuous widening of the geography of the participants is one of the characteristics of the forum. 18 countries sent their representatives to the conference, and papers of the scientists from 25-30 countries of the world were published in the proceedings.

As a result of the work of the conference some journals were founded, many joint research projects were fulfilled, links among scientists and researchers representing different branches of economy were established, new trends in mechanical engineering were set up and developed.



VIII International Scientific and Methodological Conference MODERN PROBLEMS OF TECHNOSPHERE AND ENGINEER TRAINING



The VIII international scientific and methodological conference MODERN PROBLEMS OF TECHNOSPHERE AND ENGINEER TRAINING was held in Tunisia on October 7-16th. The International Union of Mechanical Engineers, Donetsk National Technical University, the Technological Institute of El Kef (Tunisia), the Highest Engineering School of Agricultural Facilities of Medzhez-el-Bab, the Association of French Speaking Universities, and Kharkov State University of Food and Trade were among the organizers.

There were 58 participants from Ukraine, Russia, and Poland, the Czech Republic, Georgia and

Tunisia at the conference.

The conference was aimed at exchanging of scientific and technical information, defining of new ways of development of technologies, training engineers under the current situation, integrating into the system of the European education area, developing of new scientific programmes, developing of international collaboration, establishing of business contacts and commercial relations in the field.

French, Russian, and Ukrainian were the conference languages.

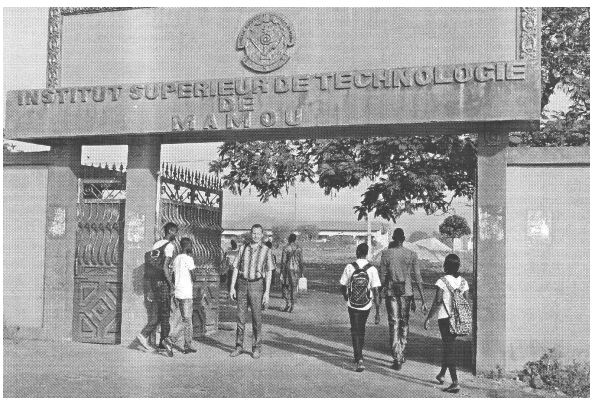
The presentations made at the conference were topical, demonstrated industrial practice and characteristics of engineering education in different countries and outlined the outlooks of development of mechanical engineering in the world.

The participants who represented DonNTU discussed the chances of collaboration with Tunisian universities in student exchange, training, and having industrial practice at different companies.

The IX international conference is going to be held in Mahdia (Tunisia) in 2015.

Scientific and Pedagogic Work in Guinea

The Associate Professor of DonNTU V. Sazhin had his scientific and pedagogic practical course at the Technological Institute of Mamou (the Republic of Guinea) in April 2013-July 2014.



He delivered lectures on electrical engineering and electric machines.

The Institute's students have their classes 6 days a week. They can also attend additional classes on Sundays.

The Institute is financed according to the number of students and thus everybody is interested in enrollment of as many students as possible.

The ceremony of presentation of the education certificates is a holiday for the entire city. The Minister of education, the governor, the administration of the city, leaders of public and religious organizations, and Russian speaking academics are always present at it. The mass

media makes the reports for the TV and the radio.

Mr Sazhin and academics of the Institute developed the lecture course on electric machines with taking into account the way of teaching at the Institute. The material of the similar lecture course delivered at DonNTU was adapted to the terms of the Technological Institute of Mamou.

During his practice course the Associate Professor V. Sazhin passed his French language test. His result was the best one out of the 15 people taking the exam. It shows that training of the French language at DonNTU is of a high level.



Scientific study course of the professor of DonNTU at the University of Zielona Gora



The development of scientific contacts with the University of Zielona Gora (Poland) is going on.

Prof. A.A. Barkalov had his scientific study course at the University in April-May.

It was aimed at developing research contacts in modern information technologies, preparing a joint monograph which was planned to be published by the Springer publishing house. He also delivered lectures on computer system architecture, in-built systems, took part at the meeting of the state exam board. Prof. Barkalov made 6 presentations for international conferences and papers to be sent to such well-known international journals as “Microprocessors and Microsystems”, и “IEEE Transactions on CAD of VLSI Systems”.

INCORPORATED STUDYING IN POLAND



The student of DonNTU I. Skrinetskaya had her incorporated studying in Poland in April-June. She was hosted by Silesian University of Katowice at the expense of the grant issued by the Polish government.

She attended lectures and practical classes in ecology at the Ecology Department. The Department researches the environment in the aspect of its pollution by heavy metals.

She also helped organize the Ukrainian party where she informed on the country, its culture, customs and traditions.

At the end of her visit she was handed in the certificate.

DEVOTED TO THE MANKIND'S TEACHERS

The exhibition “Praying for Culture and Peace” has resumed its work since October 23d in Donetsk. It is devoted to the 140th anniversary of N. Roerich. DonNTU and the Museum-Institute of the Roerichs (St. Petersburg) were its organizers. Despite all the difficulties of the warfare the exhibition was opened as it is



impossible to shut down the aspiration of people to the Highest Forces.

N. Roerich wrote: “Culture and peace is sacred stronghold of the mankind. The confused spirit turns to these light shelters during great material and spiritual perturbations. But we should unite in the name of not only these renovating ideas. Everybody is to introduce them into the personal environment as something which is really necessary and urgent.

The senior lecturer V. Parkhomenko mentioned during the first excursion she organized how important is PEACE to us, the citizens of Donetsk. It is a short word (in Russian there are only three letters in it), but it is a polysemantic one: it means everything in the world, the universe, the calm and absence of the war. The mankind can not exist without the peace as it needs normal conditions to preserve itself and its mission on the Earth as we are the single whole with all the space area. We should live and not disturb the integrity of the space unity. Why do people fight in wars? M. Lermontov answered:

*I thought: “It is pathetic man:
What does he want?...The sky is clear
There is much room under the sky for everyone
But he is at wars for nothing continuously*

Why?"

The year of 2014 is the unique one for its famous dates: 700th anniversary of St. Sergiy Radonezhski, 14th anniversary of N. Roerich, 135th anniversary of E. Roerich, and 350th anniversary of Pereyaslavskaya Rada.

There is a very special picture presented at the exhibition. It is called "St. Sergiy". Roerich had signed it at the bottom: "St. Sergiy is to save the Land of Russia three times. The first time is under Duke Dmitri, the second- under Minin, and the third...". The Director International of DonNTU Dr. S. Dzura thinks it is just the time. He paid special attention to the picture of Roerich "The Most Pure City is for the Bitterness of Enemies". This bright city surrounded by the spiteful forces is the symbol of defense of Slavyansk, Donetsk and many other towns and villages of Novorossia that are fighting for the freedom and independence. Roerich interpreted the word culture that means cultivation or



transformation in Latin as the word consisting of two parts. The first is "cult" that means worship, and the second is "ur" that means light. Our ancestors shouted "Hurrray!" when they were fighting the enemies. That is, they were going to die for the Light. Thus, the Darkness and Light are fighting in our souls, on our land, in our hearts.

The Newsletter is prepared by the International Office of DonNTU.

Should you have any questions or offers as to the publication material, please address us at: 1st building of Donetsk National Technical University, office 220; tel.: (062) 301 – 08 – 25; (062) 337 – 32 – 66; fax: (062) 304 – 12 – 78; web-site: <http://iic.dgtu.donetsk.ua/>; e-mail: ovs@pop.dgtu.donetsk.ua