



THE VISIT OF THE AMBASSADOR OF NIGERIA TO DONNTU



The Ambassador Extraordinary and Plenipotentiary of Nigeria in Ukraine Mr. Frank Ngozi Isoh and some representatives of the Embassy visited DonNTU on October 22nd.

The ambassador met the administration of the university. Prof. Minaev told the honorary guest about DonNTU and conditions in which foreign students study and live. He mentioned that 75 Nigerian students are being trained here and the most of them are goal-seeking and industrious. That is why the university is interested in widening the contingent of Nigerian students. The Rector hoped the meeting will assist in closer collaboration in the field of education between our countries and presented the ambassador with the book on history of the university published to mark its 90th anniversary.

The ambassador thanked Prof. Minaev on behalf of the government of Nigeria for the care about the students-Nigerian citizens. He also highlighted a high level of knowledge the Nigerian graduates of DonNTU have. He thinks it is due to the application of advanced technologies in the academic process.

After the negotiations the guests had an excursion about the administrative building, visited the portrait gallery, the museum and saw the painting of the history of DonNTU. The ambassador left his note in the guest book.

The Dean of the Computer Engineering Faculty Prof. A. Anoprienko accompanied the guests to the faculty where they visited the laboratories with modern facilities and the classrooms where Nigerian student were having a class at that moment. The ambassador spoke about outlooks as the population of Nigeria is four times as much and is an educational market at which DonNTU has established a good reputation. These outlooks were also discussed during the visit.

THE PARTICIPATION OF DONNTU IN THE EXHIBITION OF THE INTERNATIONAL INVESTMENT SUMMIT

The VI International Investment Summit took place in Donetsk on October 17-18th. This is the largest in the country business forum that started to be held in 2008 and is the highly authoritative meeting of Ukrainian and international business at which topical issues of economic development and investment outlooks of Ukraine are discussed.

This year's Summit discussed the issues of energy efficient and ecologically friendly business in Ukraine, that is the "green" economics, energy efficiency of the municipal services and different branches of industry, alternative and renewable energy and ecological investments.

The President of Ukraine Victor Yanukovich, the administration of the Donetsk Region and its neighbourhood, the representatives of the local government bodies, deputy and diplomatic corps (Finland, Poland, the Czech Republic



and Germany), the heads of the leading companies of the Donetsk Region, business-structures, financial and investment companies were among the guests.

Donetsk National Technical University participated in the exhibition “The Sustainable Development: Energy Efficiency, Resource Saving, Ecological Safety” which was organized in the frameworks of the Summit. The University presented the projects and developments of its researchers in energy efficiency and ecological safety.

The exhibition was a qualitative addition to the international investment Summit and demonstrated the potential of Ukraine in the field of energy efficiency and ecology.

THE CONFERENCE OF YOUTH EMPLOYMENT IN EUROPE



The head of the Department of programming Control Systems Prof. V. Kalashnikov participated in the conference devoted to the issues of the youth employment in Europe on the invitation of the European Union of Professional Education. The conference took place in Athens (Greece). In the photo- participants of the conference Prof. Kalashnikov and Prof. R. Tessmer, the Honorary Doctor of DonNTU.

The members of the government of Greece and Vietnam, the representatives of the European Parliament took part in the conference.

The conference outlined the growth of youth unemployment (30-40%) in the countries of the European Union (Greece, Portugal and Italy). That is why a special

task was put forward: to organize professional training of youth. In his video message to the participants of the conference the EU commissioner on employment and social protection mentioned that the European Parliament allocated more than 6 billion Euros for that.

The practice of Germany Austria and Switzerland in dual training system that covers 20-30% of theory and 70-80 % of practice at companies is of great interest to Ukraine. The Ministry of Labour and Social Protection defines such companies with their further certifying for getting a right for training.

Prof. Kalashnikov negotiated with the representative of the Austrian labour market service and agreed to exchange the information on the dual professional education.

THE INTERNATIONAL CONFERENCE IN TUNISIA

DonNTU organizes numerous international conferences and seminars not only in Ukraine but also abroad.

Since 2006 the Department of Manufacturing Engineering of DonNTU has been holding scientific and methodological seminars and later on the conferences on modern problems of technosphere and engineer training in Tunisia. It's the first-ever experience in Ukraine.

The goal of the conference is to exchange scientific and engineering information, to define the promising ways of development of new facilities and technologies, discuss the issues of training of engineers

under the modern conditions and integration into the European system of university education, and develop international collaboration, establishment of business and commercial contacts and links in the field.

The VII International Conference “Modern Problems of Technosphere and Engineer Training” took place in Sousse (Tunisia) on October 10-16th. The Technological Institute of Kef province and the High Engineering School of Agricultural Equipment in Medjez el-Bab rendered their assistance in organizing the conference.

The geography of the participants widens every year as the researchers from Ukraine and research



institutes of the country pay more and more attention to the subject area of the conference. 82 people from Ukraine, Russia, Belarus, Georgia, Poland, the Czech Republic, Moldova, Romania and Tunisia participated in the conference and it was the seventh time when they have shown the latest developments in mechanical engineering and technosphere. The representatives of the Ministry of Education of Tunisia were present at the plenary meeting of the conference that emphasizes the Tunisian's party interest paid to the conference. The presentations covered a wide range of subject area: innovations, development of manufacturing technology and that of processing of modern alloys; ecology and waste processing, mining industry development, integration process and partnership in education etc.

There were 26 representatives of DonNTU (the biggest number of the participants) who made their presentations which are being discussed at the Department of Mechanical Engineering despite the fact that Tunisian conference is over.

The presentations were published in the proceedings of the conference (244 pages).

The next conference will take place in Sousse in 2014.

MECHANICAL ENGINEERING AND TECHNOSPHERE OF THE XXI CENTURY

The International Union of Mechanical Engineers, DonNTU and a number of universities and organizations of different countries held the XX International Scientific and Technical Conference Mechanical Engineering and Technosphere of the Xxi Century in Sevastopol on October 16-21st.

The goal of the conference was to exchange scientific and technical information, define the promising ways of creation and development of new facilities and technologies, development of joint research programs and international collaboration, making business contacts and commercial links in the area.

This is the main subject areas of the conference:

- Practice and outlooks of creation and application of progressive non-traditional technologies; integration of the technology; assembly in mechanical engineering and instrument making; abrasive and vibroabrasive technologies.
- Production process mechanizing and automation; advanced equipment.
- Complex automation of design preparation and management of production; technosphere economic issues.
- Creation and application of advanced tools and tool materials.
- Product quality and technical system control.
- Modern problems of machine science and machine units.
- Modern problems of material engineering, processes and material science in mechanical engineering; strengthening technologies and goods covering in mechanical engineering.
- Technical system modeling and calculations.
- Special machines and technologies of technosphere; technosphere technological problems.
- Engineering education modern problems.
- Food and processing industry problems. Researchers and experts from 16 world countries participated in the conference. 268 presentations that were included into the 4 volume proceedings were made.



The conference was a jubilee one. All the conferences are traditionally held in Sevastopol. The first conference was held in 1994.

All the conferences were held in the atmosphere of creativity, were fruitful and solved a number of topical problems of mechanical engineering and technosphere. Their participants and the members of the Organizing Committee exchange scientific and technical information. 5000 scientists from 32 countries of the world participated in the conference during this period. 600 presentations and papers were published in 80 proceedings; about 30 doctoral and 100 candidate's dissertations were discussed and recommended for the defense. It gave the start to many scientific journals, practical and methodological conferences and seminars in different countries.

The participation of scientists from different countries in the conference assists in developing of promising links and forming of the tradition of joint discussion of topical problems. It consolidates scientists, academics and researchers for developing of machines and technologies of technosphere under the conditions of the global economy which changes rapidly. The XIV convention of the International Union of Mechanical Engineers was held in the frameworks of the conference.

THE INTERNATIONAL CONFERENCE ON GEO-IFORMATION SCIENCE, GEODESY AND MINE SURVEY

Donetsk National Technical University hosted the international jubilee scientific and technical conference Geo-Information Science, Geodesy and Mine Survey on October 3-4th. It was devoted to the 60th anniversary of the Department of GeoInformation Science and Geodesy.



The conference aimed at exchanging of opinions on tendencies and outlooks of development of geological and information technologies in geodesy, land management, mine survey and mining to raise the efficiency of engineering solutions; discussing the issues complex monitoring of anthropogenic territories, modern methods of mine survey and geodesy.

The subject areas of the conference were as follows:

- Geological and information systems and technologies in the complex of engineering tasks of anthropogenic

territories.

- Application of digital photogrammetry and remote probing of Earth to solve applied tasks.
- Monitoring of mining and industrial object territories.
- Modern tools and methods of geodesy and mine survey.
- Earth surface shift, building, construction and environment protection.
- Tendencies of development of municipal and land cadastre under modern conditions.

7 universities of Ukraine and Oldenburg University (Germany) and Ostrava University (the Czech Republic) participated in the conference.

All the presentations were included into the jubilee proceeding in Ukrainian, Russian and English.

Guests of the conference went sightseeing, were at the football match at the Donbass Arena stadium and visited Svyatogorsk.

On its 60th anniversary eve the Department finished the work at the EU project “Development of the System of Education in Land Resource Management in Ukraine and Macedonia” due to which DonNTU is the leading expert in the Donbass Region in the protection of a land right and defining the right in space.



THE INTERNATIONAL SCHOOL ON PHYSICAL MATERIAL SCIENCE IN TOLYATTI

The VI International School of Physical Material Science has been organized in Tolyatti (Russia). Prof. Goltsov, the Head of the Department of Physics and Dr Goltsova, the senior researcher of the Department took part in it.

The Youth School was traditionally organized and hosted by Tolyatti State University (TSU) and its Department of Nanotechnology, Material Science and Mechanics.



Well-known experts in material science and metal physics from Russia and Ukraine were the members of the Organizing Committee. Ukraine was represented by Prof. Milman (Kiev) and Prof. Goltsov (DonNTU).

More than 90 people representing universities, industrial companies, public and private organizations from Russia, Ukraine, Belarus, Georgia, Estonia, Australia, Vietnam and Japan participated in the work of the School.

12 lectures were delivered, 12 plenary and 12 breakup group presentations were made. All of them were interesting from the viewpoint of development of the metal science. The lecture of Prof. Goltsov “Hydrogen Treatment of Materials as a New Field of Physical Material Science” gained a lot of attention. A very active discussion was caused by the video about hydride transformations on the surface of the palladium sample.

As a member of the Organizing Committee Prof. Goltsov participated in the work of the Commission that estimated the presentations. He also had a meeting with the Rector of TSU Prof. Krishtal and discussed some issues on getting nanomaterials and their properties.

Besides, he gave consultations on plasma and spark agglomeration of finely dispersed powders of titanium nitride and interaction of hydrogen with other materials to postgraduate students and members of the competing teams.

Prof. Goltsov also discussed the issues of possible collaboration with Prof. Merson (the Head of the Department of Nanotechnology, Material Science and Mechanics of TSU) on interaction of hydrogen with steels.

While communicating with the participants of the conference, TSU’s students and employees he gave detailed information on Ukraine, Donbass, Donetsk, and DonNTU as the people were interested in it.

The business trip was very important from the viewpoint of getting latest information on development of physical material science of nanomaterials, steels and alloys. It will assist in contacting with scientist from different countries and strengthening the priority position of DonNTU in the field of hydrogen material science.

DAYS OF THE NETHERLANDS AT DONNTU

The lecture “A small country, a big partner: What the Dutch can offer to Ukraine” has been delivered at DonNTU in the frameworks of Days of the Netherlands in Ukraine (October 3-5th 2013).

The second secretary of the Embassy of the Netherlands in Ukraine Ms Vivien Annelus, the head of the Department of Economics, was the lecturer.

He lecture was for students interested in foreign economics, international business and links, and political science. Both the lecture and a discussion after it were in English. The students learnt about the state of economics in the Netherlands, new achievements of the country in different areas, Ukrainian-Dutch collaboration and asked their questions. The Embassy’s officers got the information of the Dutch Department established at DonNTU in 1993. The outlooks of it were discussed at the further meeting with the Ambassador of the Netherlands in Ukraine.



COLLABORATION WITH THE UNIVERSITY OF MAGDEBURG

The Dean of the GEF Prof. S. Tkachenko has visited Germany in the frameworks of collaboration of DonNTU and Otto-von-Guericke University of Magdeburg.

He met the professors of the German university working in Smart Grid and discussed issues of intellectual control of energy systems, object operation and mode analysis, corrected the trends of joint scientific and technical development, studied the corresponding equipment and got all necessary materials from the library and the departments of the University of Magdeburg.

He also studied the work of masters, bachelors and postgraduate students done at the Institute of Energy Systems. He also coordinated the curriculum of the course Solar Power Stations. Besides, Prof. Tkachenko attended the German language classes at the language Centre of the University of Magdeburg.

THE INTERNATIONAL CONFERENCE ON VIBRATION IN LISBON

The Associate Professor of the Department of Monitoring Computer Systems V. Belovodski participated in the XI International Conference on Vibration (ICOVP) in Lisbon (Portugal) on September 9-12th.

The conference ICOVP is a biannual one and is hosted by different countries.

The subject area of it is quite wide and covers practically all aspects of vibrations in the nature, science and machines.



420 people from 53 countries participated in the conference. V. Belovodski made his presentation Super-harmonic Resonances in Double-mass Vibration Machines which was included into the proceedings of the conference.

V. Belovodski exchanged information on the subject matter with the experts from Kazakhstan, Latvia, Turkey and Brazil and discussed possible ways of collaboration and attraction of young specialists and students to this scientific school.

THE INTERNATIONAL CONFERENCE ON MECHANICAL ENGINEERING IN GERMANY

The postgraduate student of DonNTU D. Bazhutin participated in the XI International Scientific and Technical Conference on Mechanical Engineering in Germany on September 21-28th.

He is a student of the bi-national postgraduate course and together with the postgraduates from Kharkov and Kiev took part in the work of the breakup group organized for this group of postgraduates.

D. Bazhutin made his presentation Modeling of Elastic Vibrations of Tower Cranes.

Besides, he and Prof. Palis from Germany coordinated the plans of modernizing of an experimental unit the necessary blocks of which will be made at DonNTU's shop.



STUDENTS' STUDY COURSE IN POLAND IN THE FRAMEWORKS OF THE TEMPUS PROJECT



A group of students of the Department of Control Automated Systems has visited Poland in the frameworks of the TEMPUS project.

The Technical University of Lodz hosted them.

The students had a technological crash course on micro system computer design. The course included 11 introductory lectures in English.

They also got theoretical e-material on the lectures. The students visited specialized laboratories equipped with the most modern facilities and done 9 laboratory works on them.

Besides, they had an interesting social program organized by their Polish supervisor.

INCORPORATED STUDY IN GERMANY

A group of Master's students from the GEF has visited Otto-von- Guericke University of Magdeburg (Germany) for incorporated studying.

They did some of the research projects which will be the basic for their diploma papers. They also gathered information on the corresponding subject areas and worked in the library with the papers in English and German.



The students had a crash course in German and passed their DSH-2 level exam.

They also visited the exhibition of the projects of the University of Magdeburg, the electric car in the development of which DonNTU's students had participated being among them. Communication with German students and different German boards, foreign students from China, Iran, Serbia and Russia assisted in integrating into the German environment. Our students also went sightseeing and saw historical and cultural monuments of Germany.

DONNTU PROVES THE LEADERSHIP OF INTERNATIONAL COLLABORATION

DonNTU has won 3 TEMPUS projects out of 33 won in Ukraine. It is the maximum number of projects won by the universities of the Donbass Region this year. Only the universities of Kharkov and Kiev have more won projects. According to the information of the EACEA DonNTU is registered as a participant of 3 projects of ERASMUS MUNDUS, 4 of TEMPUS (three new and the one which has 2 years of work ahead).

The ERASMUS MUNDUS program is represented by the projects INFINITY (International Fellowship in Transdisciplinarity) coordinated by Prof. Bulgakov and Atlantic Caucasus Technical universities Initiative for Valuable Education coordinated by Prof. Skobtsov.

The 3 TEMPUS projects will be coordinated by Prof. Turupalov, the CITA, Prof. Kachura, the PMF and Prof. Bulgakov, the IMGB.

We congratulate our scientists with the successful results of searching of finance sources and wish further international progress.

NEW COLLABORATION AGREEMENTS

Our university successfully collaborates with foreign universities. We have two more newcomers: **the University of Applied Science from Oldenburg (Germany) and Tyumen State University of Oil and Gas (Russia).**

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