Ukraine  
(403)  
UNITWIN/UNESCO Chairs Programme  
Progress report  
Period of activity: 2006  
Report established by: Prof. Dr. Mykhailo Zgurovsky, Chairholder, the National Technical University of Ukraine "Kyiv Polytechnical Institute"

I. Activities

1. Academic activities


  *Date and place*: October 1, 2005 – April 24, 2006, 2 terms without separation from work, NTUU

  *Partnership*: UNESCO, National Commission of Ukraine for UNESCO, the UNESCO Chair in Higher Technical Education

  *Participants*: undergraduate students, graduate students, academics, public administrators

  *Regional coverage*: national


  *Date and place*: since May 1st, 2006, UNESCO Chair subsidiary in the Research Institute for Applied Information Technologies in Cybernetic Center of National Academy of Sciences of Ukraine

Chair subsidiary in the Research Institute for Applied Information Technologies in Cybernetic Center of National Academy of Sciences of Ukraine

**Participants:** 15 (undergraduate and graduate students, academics)
**Regional coverage:** national


- International workshop, “Virtual integrated University Systems (VIUS)

**Date and place:** April 24-26, 2006, NTUU

**Partnership:** NTUU, UNESCO Chair in Higher Technical Education, Applied system analysis and Informatics at NTSS and IASA, Ukrainian Institute for Information Technologies in Education, Stockholm University, Tallinn University of Technology, St Petersburg State Polytechnic University

**Participants:** 21 (academics, public administrators)
**Regional Coverage:** Ukraine, Republic of Estonia, Russian Federation, Sweden

- Launch of Supercomputer Centre in National Technical University of Ukraine “Kyiv Polytechnic Institute”, and International Seminar “Start of Ukrainian World Data Centre in Partnership with Geophysical Centre of Russian Academy of Sciences”.

**Date and place:** November 17, 2006, NTUU


**Participants:** 400 (undergraduate and graduate students, academics, public administrators, employees from industry, other groups)
**Regional coverage:** Ukraine, Moldova, Republic of Belarus, Russian Federation

**Publication:**
- Periodical “Seminar with participation of Russian scientists”, published by Kyivsky Polytekhnik, n°37 in Ukrainian, 2006
- Periodical “Visit of the President of Ukraine to ‘KPI’”, published by Kyivsky Polytekhnik, n°36 in Ukrainian, 2006
- Periodical “Supercomputer of KPI is the most powerful in Ukraine”, published by Kyivsky Polytekhnik, n°36 in Ukrainian, 2006
• Start of the subsidiary of UNESCO Chair in the Research Institute of Applied Informational Technologies

Date and place: 6 July 2007, Research Institute for Applied Information Technologies, Kyiv


Aim: The main aims of creation and further activities of UNESCO Chair in Higher Technical Education, Applied System Analysis and Informatics subsidiary in the structure of Research Institute for Applied Information Technologies are activity coordination and cooperation of efforts and possibilities of both sides with involving of the third side for development, implementation and expansion of principles of international expertise of education quality and ranking evaluation of activity of higher education institutions in Ukraine, targeted at realization of the statements of the Memorandum about cooperation between UNESCO Chair in Higher Technical Education, Applied System Analysis and Informatics and UNESCO-CEPES European centre of Higher education from 25th of April 2006.


2. Conferences/Congresses/Meetings


Date and place: May 17-19, 2006, NTUU «KPI»


Participants: 140 (Undergraduate and Graduate students, academics, public administrators)
Regional Coverage: Ukraine, Poland, Russian Federation, Republic of Belarus, Azerbaijan

Publications:

- VI International Conference on Intellectual Analysis of Information IAI-2006
Date and place: May 16-19, 2006, NTUU


Participants: 62 (undergraduate and graduate students, academics, public administrators)
Regional Coverage: Ukraine, Russian Federation, Republic of Belarus


Date and place: 27-30 June 2006, on the basis of the Sevastopol National Institute for Nuclear Energy and Industry, Sevastopol, Ukraine


Participants: 74 (Undergraduate and graduate students, academics, public administrators)
Regional Coverage: Ukraine, Russian Federation, Serbia, Montenegro, Federal Republic of Germany

- IX International Science Conference “System Analysis and Informational Technologies”

Date and place: 15-19 May 2007, NTUU “KPI”, Kyiv


Participants: 347 (Undergraduate and Graduate students, academics, public administrators, employees from industry)
Regional Coverage: Ukraine, Russian Federation, Republic of Belarus, Azerbaijan, Latvia, Georgia,

**3. Partnerships/interuniversity exchanges**

- Visit of M. Zgurovsky to the Meeting of Eurasian University Association Council

*Destination:* Moscow, Russia

*Mission:* taking part in the extended meeting of Eurasian University Association Council.

*Duration:* 13-15 April 2006

- International Conference within the ERASMUS EU Industry-University Thematic Network Project, Visit of Associate Professor O.Zakhovajko, partial time support Secretary of the UNESCO Chair in Higher Technical Education, Applied System Analysis and Informatics at NTUU «KPI»

*Destination:* Tallinn, Republic of Estonia

*Mission:* taking part in the conference and reporting on the realization of the UNESCO Project "Technical and Methodological Support of Training Programme for International Project Management"

*Duration:* May 1-5, 2006

- Visit of M.Zgurovsky, 2nd Meeting of the International Ranking Expert Group (IREG): “Methodology and Quality Standards of Rankings” with support of the UNESCO-CEPES

*Destination:* Berlin, Germany

*Mission:* taking part in the Meeting

*Duration:* May 18-21, 2006

- Visit of M.Zgurovsky, 8th meeting of directors of UNESCO Institute of Informational Technologies in Education

*Destination:* Moscow, Russia

*Mission:* taking part in the Meeting

*Duration:* June 15-18, 2006

- Visit of Kinelov V.G., Director of UNESCO Institute of Informational Technologies in Education, Moscow, Russia

*Destination:* NTUU “KPI”, Kyiv

*Mission:* discussion of problems of cooperation between UNESCO Institute of Informational Technologies in Education, Moscow, and UNESCO Chair in Higher Technical Education, Applied System Analysis and Informatics at NTUU «KPI» and Ukrainian Institute for Informational Technologies in Education at NTUU “KPI”

*Duration:* 11-14 June 2006
- Visit of M.Z. Zgurovsky, 15th Jubilee Conference of European Association of Rectors of Technological Universities

Destination: Vienna, Austria
Mission: taking part in the conference
Duration: September 14-15, 2006

- Visit of M. Zgurovsky, Salzburg Seminar

Destination: Kaliningrad, Russian Federation, University of Immanuel Kant
Mission: taking part in Salzburg seminar
Duration: October 2-5, 2006

- Visit of students delegation from Concordia University (Nebraska, USA) headed by Prof. Andy Langewisch

Destination: NTUU “KPI”
Mission: holding lectures and seminars on Finance in English, establishing business contacts
Duration: May 9-24, 2007

4. Publications

- UNESCO Chair official web-site http://www.unesco.ntu-kpi.kiev.ua


- Article: Certificated pseudo-education or the contradictions of the transition period in the sphere of higher education in Ukraine, M. Zgurovsky, published by «Dzerkalo Tyzhnya», Newspaper, №6, February 18 – 24, 2006


II. Impact

NTUU «KPI» efficiently extends its international activity, realizing at the same time modern model of development of technical university as international educational scientific-information complex. The UNESCO Chair in Higher Technical Education, Applied System Analysis and Informatics, which is now one of the centers of the intellectual elite, plays a great role in this process. The Chair initiated many international congresses, conferences and seminars on different aspects of higher education development and awareness of its part in the modern society.

One important result of the Chair’s activity is the launching of new scientific and educational programmes in the university, particularly “Technological prediction”, “Intellectual property”, “Resist to terrorist attacks”, “Pollutionfree technologies”, “Bio-informatics”, “Mechatronics” etc. It is also necessary to emphasize the Chair's cooperation with the European Centre for Higher Education in development and implementation of principles of international expertise for education quality and ranking evaluation of higher education institutions activity in Ukraine. As a result of this activity in 2007 Ukrainian higher education institutions rating, “Top-200 Ukraine”, was formed and published, and it caused heated discussion in Ukrainian educational society.
NTUU «KPI» cooperates with UNESCO Institute for Informational Technologies (Moscow), developing projects of E-learning. National Focal Point of the Institute was created and many projects for implementation of E-learning methods in Ukraine. Among them – UNESCO project “Central-Eastern-European Virtual University”, which is coordinated by TUU “KPI”

Due to the active work of the UNESCO Chair in Higher Technical Education, Applied System Analysis and Informatics international activity became an integral part of NTUU «KPI» and IASA. This provides favorable conditions for future integration in international and European educational, scientific, and informational space and contributes to the implementation of reforms, started by the Bologna Process. It also helps to realize the “Dacar activity restrictions”, which are very important for UN strategies concerning education, and also for UNESCO intermediate strategies for 2002-2007, programmed tasks for UNITWIN/UNESCO Chair and for other directions of UNESCO activity.

III. Forthcoming activities
- International Conference “European Council for Business Education”
  
  Date and place: May 31 – June 3, 2007, Kyiv, NTUU «KPI»
  Partnership: NTUU «KPI», International university of Finance, UNESCO Chair

- VIII International Scientific and Methodical Conference “Higher technical education: problems and prospects in the scope of Bologna process”
  
  Date and place: September 21-22, 2007, Kyiv, NTUU «KPI»
  Partnership: NTUU «KPI», UNESCO Chair

- Round table on the issues of sustainable development for the members of the Black Sea Universities Network (BSUN)
  
  Date and place: June 14-16, 2007, Kyiv, NTUU «KPI»
  Partnership: NTUU «KPI», UNESCO Chair, Black Sea Universities Network

- Forum of the higher educational institutions of the Black Sea Region Countries
  
  Date and place: April 2008, Kyiv, NTUU «KPI»
  Partnership: National Comission of Ukraine for UNESCO, Black Sea Universities Network, NTUU «KPI», UNESCO Chair

IV. Development prospects

UNESCO Medium-term strategy (2002-2007), proposes twelve strategic goals which include provision of wide access to information and communication technology. Ukraine as the UNESCO member in forming the education system of the future “Education for all, lifelong and limitless learning” should take this strategy into consideration.
Expanding its international activity in the new environment, NTUU"KPI", Institute for Applied Systems Analysis, UNESCO Chair in Higher Technical Education, Applied Systems Analysis and Informatics have been participating actively in the implementation of the above-listed priorities in the recent years. The role of the UNESCO Chair in Higher Technical Education, Applied Systems Analysis and Informatics in this process is hard to overestimate (the list of international actions held by it presents convincing evidence).

The UNESCO Chair will go on with realization of the statements of Memorandum About Cooperation with UNESCO-CEPES from 25th April 2006 and will actively develop and implement ranking of higher education institutions of Ukraine as the instrument for evaluating quality and level of education services.

In the field of distance learning the UNESCO Chair in Higher Technical Education, Applied Systems Analysis and Informatics is collaborating actively with the UNESCO Institute for Information Technologies in Education, Moscow.

Nowadays a new wide-range UNESCO project of the Open Virtual Campus of E-Learning Centres, Technological and Engineering Universities of Central and Eastern Europe is commencing. The Ukrainian Institute for Information Technologies in Education and the Ukrainian Gender Education Centre at NTUU"KPI" are expanding their activities due to wider use of information and communication technologies.

The activity of the Ukrainian Gender Education Centre, established at NTUU"KPI" in 2001 under the aegis of the UNESCO Chair in Higher Technical Education, Applied Systems Analysis and Informatics, is also based on information technology. It acts up to the Memorandum of UNDP in Ukraine and National Technical University of Ukraine, aiming at further joint work on introduction of gender component into educational programmes and educational system, particularly, higher engineering education, personnel training and retraining in this field using innovative computer learning technologies.

The UNESCO Chair in Higher Technical Education, Applied Systems Analysis and Informatics at NTUU"KPI" is aiming at further development and cooperation in the framework of the UNESCO/UNITWIN Chairs Programme.