

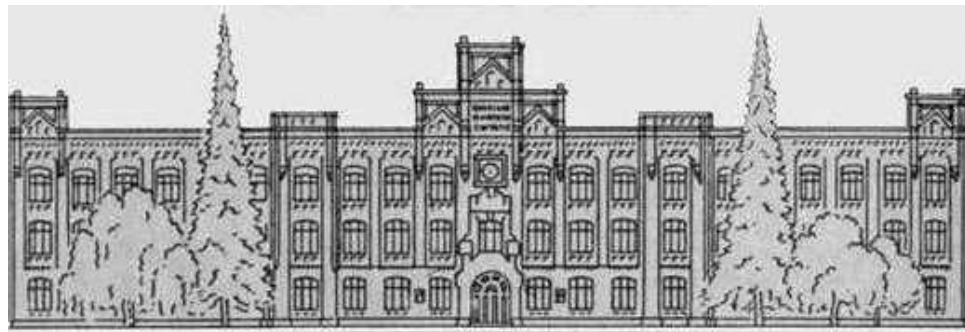


UNITWIN/UNESCO CHAIRS PROGRAMME

PROGRESS REPORT

- 2 0 0 2 -

*UNESCO Chair
in Higher Technical Education, Applied System Analysis and
Informatics
at National Technical University of Ukraine "Kyiv Politechnic Institute"
and Institute for Applied System Analysis*



NTUU"KPI" – Kyiv - Ukraine

UNITWIN/UNESCO Chairs Programme Progress Report

Period of activity:

01.01.2002 – 31.12.2002

Title of the UNESCO Chair:

**Higher Technical Education, Applied
System Analysis and Informatics**

I. Address

	Address of the Host Institution
Name	Mykhailo Zgurovsky
Function/ Title	Rector of the National Technical University of Ukraine "Kyiv Polytechnic Institute" (NTUU "KPI"), Academician of the National Academy of Sciences of Ukraine (NASU)
University/ Institution	National Technical University of Ukraine "Kyiv Polytechnic Institute" (NTUU "KPI")
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CONTENT

I.	Address	2
II.	Available resources	4
III.	Activities	5
V.	Forthcoming activities	20

II. Available resources

Staff:

The UNESCO Chair has three sections:

- **Higher Technical Education**, headed by Corresponding Member of National Academy of Sciences of Ukraine, **Professor Yuriy Yakimenko**, *Vice-Rector of National Technical University of Ukraine "Kyiv Polytechnic Institute"*
- **Applied System Analysis**, headed by **Professor Natalia Pankratova**, *Deputy Chief of the Institute for Applied System Analysis of the National Academy of Sciences of Ukraine and Ministry of Education and Science of Ukraine*
- **Informatics**, headed by **Professor Alexander Pavlov**, *Dean of the Faculty of Information Technologies and Computer Engineering of the NTUU"KPI"*

and **the Organizing Sector**, provided formal aspects of Chair everyday activities.

III. Activities

1. Education/Training/Research

1.1. Training in *The grants of the French government*

Duration: One-day training on February 19, 2002

Partnership: Foreign Relations Department of the National Technical University of Ukraine "Kyiv Polytechnic Institute",
The French informational and methodical centre,
The centre of business French language at NTUU"KPI"

Target group: Students' Councils leaders of the NTUU"KPI",
students, post-graduate students.

- Undergraduate students
- Graduate students
- Postgraduate students
- Academics
- Public administrators
- Employees from industry, or other private organisations (*please, specify*)
- Teachers from primary education
- Teachers from secondary education
- Teachers from technical and vocational education
- Teachers from adult education
- Others groups (*please, specify*)

Geographical coverage: National (Ukraine)

- National**
- Regional**
Please specify countries and regions
 - Africa
 - Arab States
 - Asia/Pacific
 - Eastern and Central Europe
 - Western Europe and North America
 - Latin America
- Interregional**
- International**

Outputs: about 50 students took part in the training

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions:	Foreign Relations Department NTUU"KPI", Kyiv, Ukraine	February 2002	250

2. Conferences/Congresses/Meetings

2.1. The 9th All-Ukrainian Conference *'Management and marketing: progress and prospects'*

Date and place:

13 March 2002, on the base of the National
Technical University of Ukraine, Kyiv, Ukraine

Partnership:

NTUU "KPI",
Faculty of Management and Marketing

Participants:

- Undergraduate students
- Graduate students
- Postgraduate students
- Academics
- Public administrators
- Employees from industry, or other private organizations (*please, specify*)
- Teachers from primary education
- Teachers from secondary education
- Teachers from technical and vocational education
- Teachers from adult education
- Others groups (*please, specify*)

Geographical coverage for participants and partners:

- National**
- Regional**
 - Africa
 - Arab States
 - Asia/Pacific
 - Eastern and Central Europe
 - Western Europe and North America
 - Latin America
- Interregional**
- International**

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions:	NTUU"KPI"	April 2002	3 000

2.2. International Conference 'Development of social work in Ukraine and abroad'

Date and place:

9-10 May 2002, on the base of the National Technical University of Ukraine, Kyiv, Ukraine

Partnership:

NTUU "KPI",
Faculty of Sociology,
Nuernberg Evangelical Institute,
Scientific Society of Students and Post-graduates,
Ukrainian State Center of Social Services for Youth
NGO "Agency for Social development Assistance"

Participants:

- Undergraduate students
- Graduate students
- Postgraduate students
- Academics
- Public administrators
- Employees from industry, or other private organizations (*please, specify*)
- Teachers from primary education
- Teachers from secondary education
- Teachers from technical and vocational education
- Teachers from adult education
- Others groups (*please, specify*)

Geographical coverage for participants and partners:

- National**
- Regional**
 - Africa
 - Arab States
 - Asia/Pacific
 - Eastern and Central Europe
 - Western Europe and North America
 - Latin America
- Interregional**
- International**

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions:	Nuernberg Evangelical Institute	April 2002	6 650
	Ukrainian State Center of Social Services for Youth NGO "Agency for Social development Assistance"	April 2002	3 325

2.3. The 5th International Conference *for students, post-graduates and young scientists 'Ecology, Human Being, Society'*.

Date and place:

9-10 May 2002, NTUU "KPI", on the base of the National Technical University of Ukraine, Kyiv, Ukraine

Partnership:

Main State Ecological Inspection of the Ministry of Ecology and Natural Resources of Ukraine,
The Ukrainian State Committee of the Water Industry,
NTUU "KPI",
Scientific society of the students and post-graduate students,
Association of Young Scientist

Participants:

- Undergraduate students
- Graduate students
- Postgraduate students
- Academics
- Public administrators
- Employees from industry, or other private organizations (*please, specify*)
- Teachers from primary education
- Teachers from secondary education
- Teachers from technical and vocational education
- Teachers from adult education
- Others groups (*please, specify*)

Geographical coverage for participants and partners:

- National**
- Regional**
 - Africa
 - Arab States
 - Asia/Pacific
 - Eastern and Central Europe
 - Western Europe and North America
 - Latin America
- Interregional**
- International**

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions:	Main State Ecological Inspection of the Ministry of Ecology and Natural	April 2002	6 220

	Resources of Ukraine, The Ukrainian State Committee of the Water Industry	April 2002	4 585
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2.4. The 3rd International Conference in the field of programming "UkrPROG – 2002"

Date and place:

21-24 May 2002, on the base of the National
Technical University of Ukraine, Kyiv, Ukraine

Partnership:

NTUU "KPI",
National Academy of Sciences of Ukraine,
Ministry of Education and Science of Ukraine,
State Committee of Communication and
Informatization of Ukraine,
Cybernetic Center of the National Academy of
Sciences of Ukraine

Participants:

- Undergraduate students
- Graduate students
- Postgraduate students
- Academics
- Public administrators
- Employees from industry, or other private organizations (*please, specify*)
- Teachers from primary education
- Teachers from secondary education
- Teachers from technical and vocational education
- Teachers from adult education
- Others groups (*please, specify*)

Geographical coverage for participants and partners:

- National**
- Regional**
 - Africa
 - Arab States
 - Asia/Pacific
 - Eastern and Central Europe
 - Western Europe and North America
 - Latin America
- Interregional**
- International**

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			

Other contributions:	State Committee of Communication and Informatization of Ukraine	May 2002	5 545
	Cybernetic Center of the National Academy of Sciences of Ukraine	May 2002	4 400

2.5. International UNESCO Conference on *Gender component of technical education and natural sciences*

Date and place:

4-7 July 200, on the base of the National Technical University of Ukraine, Kyiv, Ukraine

Partnership:

Ministry of Education and Science of Ukraine,
State Committee for Family and Youth Affairs,
Association of Rectors of Technical Universities of Ukraine,
NTUU"KPI",
Canada-Ukrainian Gender Fund,
Promotion of Gender Equality UNDP Project,
International Renaissance Foundation,
Ukrainian Gender Education Center at the NTUU "KPI"

Participants:

- Undergraduate students
- Graduate students
- Postgraduate students
- Academics
- Public administrators
- Employees from industry, or other private organizations (*please, specify*)
- Teachers from primary education
- Teachers from secondary education
- Teachers from technical and vocational education
- Teachers from adult education
- Others groups (*please, specify*)

Geographical coverage for participants and partners:

- National**
- Regional**
 - Africa
 - Arab States
 - Asia/Pacific
 - Eastern and Central Europe (Republic Belarus', Estonia, Georgia, Kazakhstan, Russian Federation, Ukraine, Uzbekistan)
 - Western Europe and North America
 - Latin America
- Interregional**
- International**

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			10 000
Other contributions:	International Renaissance Foundation, Programme East-East (Kyiv, Ukraine)	July 2002	4 480
	U.N.O. representatives (Kyiv, Ukraine)	July 2002	2 000
	Embassy of Canada in Ukraine (Kyiv, Ukraine)	July 2002	1 500

Outputs

Title: Proceedings of the International Conference "*Gender component of technical education and natural sciences*"

Year: 2002

Number of pages: 105

Type of document/material:

Book

Periodical

Others – Proceedings of the Conference

Language(s): Ukrainian, English, Russian

Main keywords: gender education, gender studios, equal rights on education, women in science

2.6. The 3rd International Conference "*Progressive Technique and Technology-2002*"

Date and place:

24-28 June 2002, on the base of the National Technical University of Ukraine, Kyiv, Ukraine

Partnership:

Ministry of Education and Science of Ukraine,
National Academy of Science of Ukraine,
NTUU"KPI",
Institute of Mechanical Engineering,
National Metallurgical Academy,
Sevastopol Institute for Nuclear Energy and Industry,
Union of Engineers at NTUU"KPI",
Machine-building Faculty of the Belgorod University (Yugoslavia)

Participants:

Undergraduate students

- Graduate students
- Postgraduate students
- Academics
- Public administrators
- Employees from industry, or other private organizations (*please, specify*)
- Teachers from primary education
- Teachers from secondary education
- Teachers from technical and vocational education
- Teachers from adult education
- Others groups (*please, specify*)

Geographical coverage *for participants and partners:*

- National**
- Regional**
 - Africa
 - Arab States
 - Asia/Pacific
 - Eastern and Central Europe (Yugoslavia)
 - Western Europe and North America
 - Latin America
- Interregional**
- International**

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions:	Ministry of Education and Science of Ukraine	June 2002	3 450
	Machine-building Faculty of the Belgorod University (Yugoslavia)	June 2002	5 675

2.7. The 4th International Conference *for Students, Post-graduates and Young Scientists 'System Analysis and Informational Technologies'*

Date and place:

11-13 July 2002, on the base of the National Technical University of Ukraine, Kyiv, Ukraine

Partnership:

NTUU"KPI"
Institute for Applied System Analysis,
Ministry of Science and Education of Ukraine,
National Academy of Science of Ukraine

Participants:

- Undergraduate students
- Graduate students
- Postgraduate students
- Academics
- Public administrators

- Employees from industry, or other private organizations (*please, specify*)
- Teachers from primary education
- Teachers from secondary education
- Teachers from technical and vocational education
- Teachers from adult education
- Others groups (*please, specify*)

Geographical coverage for participants and partners:

- National**
- Regional**

Please specify countries and regions

- Africa
- Arab States
- Asia/Pacific
- Eastern and Central Europe
- Western Europe and North America
- Latin America

- Interregional**
- International**

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions:	Institute for Applied System Analysis	May 2002	10 500

2.8. Conference on *Hydraulic technologies, navigation, traffic control and mobile objects construction*

Date and place:

25-26 September 2002, on the base of the National Technical University of Ukraine, Kyiv, Ukraine

Partnership:

NTUU"KPI",
Aircraft and Space Systems Faculty

Participants:

- Undergraduate students
- Graduate students
- Postgraduate students
- Academics
- Public administrators
- Employees from industry, or other private organizations (*please, specify*)
- Teachers from primary education
- Teachers from secondary education
- Teachers from technical and vocational education
- Teachers from adult education
- Others groups (*please, specify*)

Geographical coverage *for participants and partners:*

- National**
- Regional**
 - Africa
 - Arab States
 - Asia/Pacific
 - Eastern and Central Europe (Yugoslavia)
 - Western Europe and North America
 - Latin America
- Interregional**
- International**

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions:	NTUU"KPI"	September 2002	6 345

2.9. Meeting of the IITE Focal Points in the CIS and Baltic Countries on the UNESCO cross-cutting theme project Higher Education Open and Distance Learning Knowledge Base for Decision-Makers and Workshop

Date and place:

October 10-12 2002, on the base of the National Technical University of Ukraine, Kyiv, Ukraine

Partnership:

UNESCO,
National Commission of Ukraine for UNESCO,
UNESCO Institute for Information Technologies in Education (IITE, Moscow),
NTUU"KPI",
Institute for Applied System Analysis

Participants:

- Undergraduate students
- Graduate students
- Postgraduate students
- Academics
- Public administrators
- Employees from industry, or other private organizations (*please, specify*)
- Teachers from primary education
- Teachers from secondary education
- Teachers from technical and vocational education
- Teachers from adult education
- Others groups (*please, specify*)

Geographical coverage *for participants and partners:*

- National**
 Regional
 Africa
 Arab States
 Asia/Pacific
 Eastern and Central Europe (Azerbaijan, Armenia, Republic Byelorussia, Georgia, Kazakhstan, Kirghizia, Lithuania, Moldova, Russian Federation, Tadjikistan, Ukraine)
 Western Europe and North America
 Latin America
 Interregional
 International

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions:	UNESCO Institute for Information Technologies in Education (IITE, Moscow)	October 2002	15 000

Outputs

Title: Proceedings of the Meeting of the IITE Focal Points in the CIS and Baltic Countries on the UNESCO cross-cutting theme project Higher Education Open and Distance Learning Knowledge Base for Decision-Makers and Workshop

Year: 2002

Type of document/material:

- Book
 Periodical
 Others – Proceedings of the Conference

Language(s): English

Title: Meeting of the IITE Focal Points in the CIS and Baltic Countries on the UNESCO cross-cutting theme project Higher Education Open and Distance Learning Knowledge Base for Decision-Makers and Workshop

Year: 2002

Type of document/material:

- Book
 Periodical (The international Journal *System research & Information Technologies*, Issue 3/2002)
 Others – Proceedings of the Conference

Language(s): English

3. Missions/Travels abroad

3.1. UNESCO-Regional pre-conference "Information cultures and informational interests: the European sights on an information society" for the world summit on information society

Destination

Mainz, Germany

Purpose

to take part in the

Duration June 27-30, 2002

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions:	NTUU"KPI"	June 2002	3 000

3.2. UNESCO-CEPES Jubilee *International Conference on Higher Education in the 21 st Century:Its Role and Contribution to Our Common Advancement*

Destination

Bucharest, Rumania

Purpose

to take part in the *International Conference on Higher Education in the 21 st Century:Its Role and Contribution to Our Common Advancement"*

Duration

September 6-8, 2002

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions:	CEPES-UNESCO (Bucharest, Rumania)	September 2002	1 500

3.3. World forum of UNESCO Chairs

Destination

Paris, France

Purpose participation in World Forum of UNESCO Chairs

Duration November 13-15, 2002

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions:	NTUU"KPI	November 2002	1 300

4. Visiting professors/Fellowships

4.1. Lecture on *Application of the Modern Electron Microscope Methods in Material Science*

Number: 1

Duration: May 17, 2002

University of origin: University of Lyhay (USA)

Outputs: about 50 students and postgraduate students of the Material Science Faculty and Institute of Physics and Technology, NTUU"KPI" have familiarized with experience of American scientists in the field of Electronic microscopy

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions:	CRDF	May 2002	2 000

4.2. Lecture on *Way of the Czech Republic to the European Union*

Number: 1

Duration: May 15, 2002

University of origin: Faculty of social science, Karlovy University, Prague

Outputs: about 50 students and postgraduate students of the Law Faculty, Faculty of Management and Marketing have familiarized with experience of preparation of the Czech Republic to the entrance into the European Union

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions:	European Union	May 2002	2 500

5. Information and documentation activities

5.1. Since *March 2002* the new UNESCO Chair Web-site has been functioning on the <http://www.unesco.ntu-kpi.kiev.ua>

5.2. The following publication has been performed during 2002:

Title: Progress report of the UNESCO Chair in Higher Technical Education, Applied System Analysis and Informatics at the NTUU"KPI" 2000-2001

Year: 2002

Number of pages: 68

Type of document/material:

- Book
 Periodical
 Others (*information booklet*)

Language(s): Ukraine, Russian, English

Title: Proceedings of the International Conference "*Gender component of technical education and natural sciences*"

Year: 2002

Number of pages: 105

Type of document/material:

- Book
 Periodical
 Others – Proceedings of the Conference

Language(s): Ukrainian, English, Russian

Main keywords: gender education, gender studios, equal rights on education, women in science

Title: Proceedings of the Meeting of the IITE Focal Points in the CIS and Baltic Countries on the UNESCO cross-cutting theme project Higher Education Open and Distance Learning Knowledge Base for Decision-Makers and Workshop

Year: 2002

Type of document/material:

- Book
 Periodical
 Others – Proceedings of the Conference

Language(s): English

Title: Meeting of the IITE Focal Points in the CIS and Baltic Countries on the UNESCO cross-cutting theme project Higher Education Open and Distance Learning Knowledge Base for Decision-Makers and Workshop

Year: 2002

Type of document/material:

- Book
 Periodical (The international Journal *System research & Information Technologies*, Issue 3/2002)
 Others – Proceedings of the Conference

Language(s): English

IV. Forthcoming activities

1. Meeting - seminar of the British Council in Ukraine "*Women in science*"
Date and place: 20-21 January 2003, Ukrainian Center of Gender Education at the NTUU "KPI"

Partnership: The British Council, Ukrainian Gender Education Center at the NTUU "KPI", National Technical University of Ukraine "Kyiv Polytechnic Institute"
2. Local seminar "*Telework in medicine and business*"
Date and place: April 2003, NTUU"KPI"

Partnership: Physical Technical Institute, National Technical University of Ukraine "Kyiv Polytechnic Institute"
3. Seminar of NATO
Date and place: April 2003, NTUU"KPI"

Partnership: Association of Central and East Europe networks (NATO)
4. Third Russian Ukrainian scientific seminar "*The Intellectual analysis of the information IAI-2003*"
Date and place: 21-23 May 2003, NTUU"KPI"

Partnership: Faculty of Applied Mathematics, Institute for Applied System Analysis, Russian Association of artificial intelligence, NTUU"KPI"
5. The international scientific and practical conference "Creation will save the world"
Date and place: 22-23 May 2003, NTUU"KPI"

Partnership: Faculty of Sociology of NTUU"KPI"
6. International conference "*Electronics*"
Date and place: 21-24 May 2003, NTUU"KPI"

Partnership: Faculty of Electronics, Faculty of Electric Power Engineering and Automatics, NTUU"KPI"

7. IV the International conference "*Progressive Techniques and technology 2003*"

Date and place: 21-24 May 2003, Sevastopol

Partnership: Machine-building Institute, NTUU"KPI"

8. Practical conference "*Gender: realities and prospects in the Ukrainian society*"

Date and place: November 2003, NTUU"KPI"

Partnership: Ministry of Education and Science of Ukraine,
International Renaissance Foundation, Canada-
Ukrainian Gender Fund, NTUU"KPI"