



UNITWIN/UNESCO CHAIRS PROGRAMME

PROGRESS REPORT – 2001

**of the UNESCO Chair
*in Higher Technical Education,
Applied System Analysis and Informatics*
at the NTUU'KPI'**

**UNESCO Chair
in Higher Technical Education,
Applied System Analysis and Informatics
at the National Technical University of Ukraine
'Kyiv Polytechnic Institute'**



NTUU'KPI' – KYIV - UKRAINE

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UNITWIN/UNESCO Chairs Programme Progress Report – 2001

Period of activity:

01.01.2001 – 31.12.2001

Title of the UNESCO Chair:

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

Report established by: **Mychailo Zgurovsky**

Function/Title: **Chairholder**

I. Address

	Address of the Host Institution
Name	Mykhailo Zgurovsky
Function/ Title	Rector of the National Technical University of Ukraine 'Kyiv Polytechnical 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')
Street	37, Prospekt Peremogy
Postal Code	03056
City	Kyiv
Country	Ukraine
Phone	+380-44-274 6913, +380-44-241 7677
Fax	+380-44-274 0954, +380-44-274 5932
E-mail	zgur@zgurov.kiev.ua , sidorenko@uap.ntu-kpi.kiev.ua , nio@ntu-kpi.kiev.ua

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 the 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 *International Programs, Foundations, Grants, Fellowships and Calls for Students*

Duration: One-day training on October 10, 2001

Partnership: Foreign Relations Department
of the National Technical University of Ukraine
'Kyiv Polytechnic Institute'

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

- Undergraduate students
- Graduate students
- Postgraduate students
- Academics
- Public administrators
- Employees from industry, or other private organisations
- 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, 8 representatives of different international bodies had presentations (namely American Councils, British Council, DAAD, Fulbright-Programme, French Cultural Centre, INTAS, IREX).

Publications:

Author(s): Yuriy Moskalenko, Correspondent of the Kyivsky Polytechnic Newspaper

Publisher(s): Polytechnika Press

Year: October 2001

Type of document/material:

- Book
- Periodical
- Others (*specify, please*)

Language(s): Ukrainian

Main keywords: international co-operation, UNESCO-Chair, students' exchanges, stipends, scholarships, programmes.

1.2. Training in *Fundraising: useful tips in submitting applications*

Duration: One-day training on November 14, 2001

Partnership: Foreign Relations Department of the National Technical University of Ukraine 'Kyiv Polytechnic Institute'

Target group: Students' Councils leaders of the NTUU'KPI', faculties, 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, 5 representatives of different international bodies had presentations (namely American Councils, British Council, DAAD)

Publications:

Author(s): Yuriy Moskalenko, Correspondent of the Kyivsky Polytechnic Newspaper

Publisher(s): Polytechnika Press

Year: November 2001

Type of document/material:

- Book
- Periodical
- Others (*specify, please*)

Language(s): Ukrainian

Main keywords: international co-operation, UNESCO-Chair, international foundations, application forms, donors.

1.3. Training in *New Information Technologies in Education, incl. its Application for Studying Foreign Languages*

Duration: One-day training on December 12, 2001

Partnership: Foreign Relations Department of the National Technical University of Ukraine 'Kyiv Polytechnic Institute'

Target group: Students' Councils leaders of the NTUU'KPI', faculties, 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, 5 representatives of different international bodies had presentations (namely American Councils, British Council, French Cultural Centre, Geotte-Institute, IREX)

Publications:

Author(s): Yuriy Moskalenko, Correspondent of the Kyivcky Polytechnic Newspaper

Publisher(s): Polytechnika Press

Year: December 2001

Type of document/material:

- Book
- Periodical
- Others (*specify, please*)

Language(s): Ukrainian

Main keywords: IT, distance education, Internet, on-line testing, paper-based test and exams, computer-based tests and exams

2. Conferences/Congresses/Meetings

2.1. III International Science and Technical Conference '*Hydraulic Technologies, Navigation, and Robotics*'

Date and place: April 19-20, 2001

on the base of the NTUU'KPI', Kyiv, Ukraine

Partnership: Scientific and Analytical Centre of the Critic Technologies for the Navigation Industry at the NTUU'KPI'

Participants: more than 100 participants

- Undergraduate students
- Graduate students
- Postgraduate students
- Academics
- Public administrators
- Employees from industry
- 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 (Russian Federation, Ukraine, other CIS Countries)
- Western Europe and North America
- Latin America

- Interregional
- International

2.2. International Conference of Rectors of Technical Universities of Central and Eastern Europe and Community of Independent States Countries '*Higher Technical Education on the Turn of the Centuries*' (see Annex 1)

Date and place: May 21-23, 2001
on the base of the National Technical University of Ukraine 'Kyiv Polytechnic Institute', Kyiv, Ukraine

Partnership:
UNESCO,
European Centre for Higher Education (CEPES),
National Commission of Ukraine for UNESCO,
Ministry of Education and Science of Ukraine,
Association of Rectors of Technical Universities of Ukraine,
UNESCO Institute for Information Technologies in Education (IITE)

Participants: 128 participants

- Undergraduate students
- Graduate students
- Postgraduate students
- Academics
- Public administrators
- Employees from industry, or other private organizations (*Ukrainian League of Industrialists and Entrepreneurs*)
- 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: the Republic of Austria, the Republic of Belarus, the Republic of Poland, the Lithuania Republic, Russian Federation, Ukraine, and the Republic of Uzbekistan
 - Western Europe and North America
 - Latin America
- Interregional
 - International

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution		May 21-23, 2001	20 000
Other contributions: Please specify, for each contribution: Institution, City, Country	National Technical University of Ukraine 'Kyiv Polytechnic Institute'	May 21-23, 2001	40 000

Outputs

Publications:

Title: Proceedings of the International Conference of Rectors of Technical Universities of CEE and CIS Countries 'Higher Technical Education on the Turn of the Centuries'

Publisher(s): Polytechnika Press

Year: 2001

Number of pages: 230

Type of document/material:

Book

Periodical

Others (*specify, please*) - **Proceedings of the Conference**

Language(s) English, Ukrainian, Russian

Main keywords: technical universities, education, science, students'

2.3. Kalevala-Conference 'Hundred years have been passed since translation of the Finnish Epos'

Date and place: May 30-31, 2001

at the National Technical University of Ukraine 'Kyiv Polytechnic Institute', Kyiv, Ukraine;

Partnership: Embassy of Finland, Kyiv Municipal Administration

Participants: 60

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*) – translators and interpreters

Geographical coverage for participants and partners:

National

Regional

Please specify countries and regions

Africa

Arab States

Asia/Pacific

- Eastern and Central Europe (Ukraine and Finland)
 Western Europe and North America
 Latin America
 Interregional
 International

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions: Please specify, for each contribution: Institution, City, Country	Embassy of Finland NTUU'KPI' Conference fees	May 30-31, 2001 May 30-31, 2001 May 30-31, 2001	200 200 100

Outputs

Title: Proceedings of the Conference

Year: to be published

Type of document/material:

- Book
 Periodical
 Others (*specify, please*) - **Proceedings of the Conference**

Language(s) Ukrainian

2.4. The Second International Conference '*Progressive equipment and technology – 2001*'

Date and place: June 28 – July 2, 2001

on the base of the Sevastopol Institute of Nuclear Energy and Industry, Sevastopol, Ukraine

Partnership:

Ministry of Education and Science of Ukraine;
 The National Academy of Sciences of Ukraine;
 National Technical University of Ukraine 'Kyiv Polytechnic Institute' (NTUU'KPI');
 Institute of Mechanical engineering of NTUU'KPI';
 UNESCO Institute for Information Technologies in Education (IITE);
 National Metallurgical Academe of Ukraine;
 Sevastopol Institute of Nuclear Energy and Industry;
 The Society of Mechanical Engineers at NTUU 'KPI';
 Faculty of Mechanical Engineering, University of Belgrade (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**
Please specify countries and regions
 - Africa
 - Arab States
 - Asia/Pacific
 - Eastern and Central Europe
 - Western Europe and North America
 - Latin America
- Interregional**
- International**

2.5. The Third International Conference for Students,
Post-graduates and Young Scientists
on *System Analysis and Informational Technologies*

Date and place: June 28-30, 2001
on the base of NTUU'KPI', Kyiv, Ukraine

Partnership:

Institute for Applied System Analysis
Scientific Students Association of the NTUU'KPI'

Participants: about 90 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 (Czech Republic, Poland, Russia, 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: Please specify, for each contribution: Institution, City, Country	Institute for Applied System Analysis of NASU and MESU	June 28-30, 2001	2000

2.6. The Second International Congress on *Development of Information society in Ukraine***Date and place:** December 4-6, 2001

at the National Technical University of Ukraine 'Kyiv Polytechnic Institute', Kyiv, Ukraine;

Partnership:

State Committee of the Communication and Informatization of Ukraine,
 State Committee of the Information Policy, Television and Radio of Ukraine,
 Ministry of Education and Science of Ukraine,
 National Academy of Sciences of Ukraine,
 National Technical University of Ukraine 'Kyiv Polytechnic Institute'

Participants: 301 participants

- Undergraduate students
- Graduate students
- Postgraduate students
- Academics
- Public administrators
- Employees from industry
- 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** the Republic Belarus,
Great Britain,
China,
the Netherlands,
Germany,
Russian Federation,
Ukraine, and USA

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions: Please specify, for each contribution: Institution, City, Country	State Committee of the Communication and Informatization of Ukraine	2001	20 000
	NTUU'KPI'	2001	20 000

Outputs

Publications:

Title: Proceedings of the Second International Congress on Development of Information society in Ukraine

Publisher(s): Polytechnika Press

Year: to be published

Number of pages: -

Type of document/material:

Book

Periodical

Others (*specify, please*) - **Proceedings of the Conference**

Language(s): English, Ukrainian, Russian

Main keywords: new information and communication technologies, information society,

3. Missions/Travels abroad

3.1. The 9th European Congress and Trade Fair for Educational and Information Technology

Destination

Karlsruhe, Germany

Purpose

to take part in the 9th European Congress and Trade fair for Educational and Information Technology

Duration

February 4-10, 2001

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution		February 2001	2 500
Other contributions: Please specify, for each contribution: Institution, City, Country			

Outputs

Title: Current distance learning projects in Ukraine

Author: N. Pankratova

Year: 2001

Type of document/material:

Book

Periodical

Others (*specify, please*) - **Proceedings of the Conference**

Language(s): English

Main keywords: distance learning, new information technologies, education

3.2. Regional Conference on Technology Foresight for Central and Eastern Europe and Independent States

Destination

Vienna, Austria

Purpose

to take part in the Regional Conference on Technology Foresight for Central and Eastern Europe and Independent States

Duration

April 4-5, 2001

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions: Please specify, for each contribution: Institution, City, Country	UNIDO	April 2001	1 500

Outputs

Title: Technology Foresight in Ukraine

Author(S): M. Zgurovsky

Year: 2001

Type of document/material:

Book

Periodical

Others (*specify, please*) – Proceedings of the Conference

Language(s): English

Main keywords: technology foresight, applied system analysis

3.3. The 33-th Session of Member States of the World Intellectual Property Organisation Academy

Destination

Geneva, Switzerland

Purpose

to take part in the 33-th Session of Member States of the World Intellectual Property Organisation Academy

Duration

September 24 – October 3, 2001

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions: Please specify, for each contribution: Institution, City, Country	World Intellectual Property Organisation Academy	September 2001	2 800

3.4. Seminar on Technology Foresight

Destination

Budapest, Hungary

Purpose

to take part in the seminar in technology foresight

Duration

October 7-12, 2001

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions: Please specify, for each contribution: Institution, City, Country	NTUU 'KPI', Kyiv, Ukraine	October 2001	1 400

Outputs

Title: Technology Foresight in Ukraine

Author(S): M. Zgurovsky**Year:** 2001**Type of document/material:** Book Periodical Others (*specify, please*) – Proceedings of the Conference**Language(s):** English**Main keywords:** technology foresight, applied system analysis

3.5. Presentation of Scientific and Technology Potencial of Ukraine for EU-Countries

Destination

Brussels, Belgium

Purpose

to present innovative activities and technology foresight for Development of Ukrainian Economy

Duration

October 15, 2001

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions: Please specify, for each contribution: Institution, City, Country	European Union	October 2001	1 300

3.6. Institute of Europe Workshop on *Analytical Representation of Potential Field Anomalies for Europe* (Aropa-Workshop)

Destination

Castle of Munsbach, Luxembourg

Purpose

to take part in the Aropa-Workshop

Duration

October 23-27, 2001

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions: Please specify, for each contribution: Institution, City, Country	EDNES	October 2001	1 600

Outputs

Title: Analysis of ecological state of the atmosphere in physical anomaly conditions. Analytical representation of potential field anomalies for future

Author(S): M. Zgurovsky, A. Novikov

Publisher(s): National Commission of Ukraine for UNESCO

Year: 2001

Type of document/material:

Book

Periodical

Others (*specify, please*) - **Proceedings of the Conference**

Language(s): English

Main keywords: system analysis, decision making, ecological systems, systematic foresight.

3.7. Meeting in IITE

Destination

Moscow, Russia

Purpose

working visit to IITE Meeting

Duration

5 December, 2001

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution			
Other contributions: Please specify, for each contribution: Institution, City, Country	NTUU'KPI', Kyiv, Ukraine	November 2001	700

4. Visiting professors/Fellowships

4.1. IITE Focal Point Meeting

Number: 4

Duration: May 23, 2001

University of origin:

IITE, Moscow, Russia
Focal Point, Russian Federation
Focal Point, the Republic Moldavia
Focal Point, the Republic Belarus

Outputs:

Resolution about ongoing UNESCO

5. Information and documentation activities

5.1. Since *April 2001* the UNESCO Chair Web-site has been functioning on the <http://www.ntu-kpi.kiev.ua> (section *UNESCO Chair at NTUU'KPI*).

5.2. The following publication has been performed during 2001:

5.2.1. *In the field of distance learning and education*

Title: Distance Education. The Status and Prospects

Author(S): M. Zgurovsky

Publisher(s): Polytechnika Press

Year: 2001

Number of pages: 18

Type of document/material:

- Book
 Periodical
 Others (*specify, please*)

Language(s): Ukrainian, Russian, English

Main keywords: distance education, distance learning, new information and communication technologies, Internet

5.2.2. *About the UNESCO role in the new millennium*

Title: Dualistic Role of the Scientific and Technical Intelligentsia

Author(S): M. Zgurovsky

Publisher(s): National Commission of Ukraine for UNESCO

Year: 2001

Type of document/material:

- Book
 Periodical – **Anniversary UNESCO Bulletin**
Look in the 21 century

Others (*specify, please*)

Language(s): Ukrainian, English

Main keywords: intelligentsia, science, education, youth, UNESCO, society progress.

5.2.3. In the field of Technology Foresight

Title: Technology Foresight in Ukraine

Author(S): M. Zgurovsky

Publisher(s): Polytechnika Press

Year: 2001

Type of document/material:

- Book
 Periodical
 Others (*specify, please*)

Language(s): English, Ukrainian

Main keywords: technology foresight, applied system analysis

6. Salzburg Seminar Experts in NTUU"KPI"

The Universities Project of the Salzburg Seminar

Universities throughout the world are undergoing systemic changes in their governance, academic design, structure, and mission. The Salzburg Seminar's Universities Project focuses on higher education reform in Central and East Europe, Russia, and the Newly Independent States as universities in these regions redefine their relationships with governments and try to become more integrated into the global intellectual community.

The Universities Project is a multi-year series of conferences and symposia convening senior representatives of higher education from the designated regions with their counterparts from North America and West Europe. Discussion in the Project's programs focuses on the following themes:

- University Administration and Finance
- Academic Structure and Governance within the University
- Meeting Students' Needs, and the Role of Students in Institutional Affairs
- Technology in Higher Education
- The University and Civil Society

Objectives

Universities and other institutions of higher learning are seeking to reshape themselves in ways that will prepare them more fully for the twenty-first century. Even as these institutions are considering extensive systemic changes in their academic design, structure, and mission, all desire autonomy in governance and in their intellectual life. Accordingly, the Universities Project aims to promote the higher education reform process by inviting senior administrators to participate in conferences and symposia concerning issues of university management, administration, finance, and governance.

The Visiting Advisors Program (Vap)

The Salzburg Seminar launched this enhanced aspect of the Universities Project in the autumn of 1998. Under this program, teams of university presidents and higher education experts visit universities in Central and East Europe and Russia at the host institutions' request to assist in the process of institutional self-assessment and change. By the end of 2001, more than thirty VAP visits will have taken place to universities in East and Central Europe and Russia. A full schedule of visits is planned for 2002 and beyond. The addition of the Visiting Advisors Program brings to the Universities Project an applied aspect and serves to enhance institutional and personal relationships begun in Salzburg.

The Salzburg Seminar acknowledges with gratitude the William and Flora Hewlett Foundation and the W.K. Kellogg Foundation, which are funding the Universities Project and the Visiting Advisors Program respectively.



Salzburg Seminar Universities Project

Visiting Advisors Program

Arrival of the team members:

William Baker, Vice President Emeritus, University of California and
Judith Woodard, 16.09.2001, 21:30

Piotr Ploszajski, Head, Department of Management Theory, Warsaw School of Economics; former director General, Polish Academy of Science, 17.09.2001, 16:15

Daniel O'Hare, President Emeritus, Dublin City University, 17.09.2001, 14:55

Marty Gecek, Administrative Director, American Studies center, 17.09.2001, 13:35, the Salzburg Seminar representative.



William Baker (team leader) USA

Bill Baker was vice president of the University of California System for fourteen years, where his responsibilities included the negotiation and management of operating and capital budgets, governmental relations at state and federal levels, communications with the media and general public, and alumni and fundraising activities. He is a nationally recognized expert on alternative dispute resolution, and a frequent lecturer on arbitration and mediation. Mr. Baker has been a consultant to many higher education institutions throughout the USA on issues of governance, governmental relations, planning and budgeting, and management and executive leadership. He holds a B.Sc. in civil engineering from the University of California, Berkeley.



Martha Gecek USA

Marty Gecek is administrative director of the Salzburg Seminar's American Studies Center, in addition to serving as coordinator of the Universities Project Visiting Advisors Program. A member of the Salzburg Seminar staff since 1966, she has held several positions including associate director for administration and personnel. Originally from Massachusetts, Ms. Gecek earned a B.A. in sociology from Hollins University, Virginia, and has lived in Salzburg since graduation from college.



Daniel O'Hare Ireland

Daniel O'Hare is president emeritus of Dublin City University. He is chair of the Irish Government Organization, serves on the Committee of Expert Skills, Food Safety Authority of Ireland, and is a member of the Food Safety Promotion Board. Dr. O'Hare's interests center on higher education governance, management, and planning. He earned a B.Sc. and an M.Sc. from the National University of Ireland, Galway, and a Ph.D. from the University of St. Andrews, Scotland.

**Piotr Ploszajski****Poland**

Piotr Ploszajski is a former director general of the Polish Academy of Sciences, Warsaw. He is currently professor and head of the Department of Management Theory at the Warsaw School of Economics, and chairman of the Polish-Japanese Management Center. He is presently chairman of the Council for the Reform of Government Administration, and is a consultant for numerous industrial, non-profit, and government organizations. Dr. Ploszajski was educated at the Sloan School of Management at Massachusetts Institute of Technology, the Harvard Business School, and the Institute of Philosophy and Sociology at the Polish Academy of Sciences, where he received a Ph.D.

National Technical University of Ukraine 'Kyiv Polytechnic Institute' team:

Myhailo Zgurovsky - Rector, professor (e-mail: zgur@zgurov.kiev.ua)

Yuri Yakimenko - First Vice-Rector, professor (e-mail: YIY@ntu-kpi.kiev.ua)

Myhailo Ilchenko - Vice-Rector in charge of scientific work (e-mail: olgilch@hotmail.com)

Sergey Sidorenko - Vice-Rector in charge of International Relations (e-mail: sidorenko@uap.ntu-kpi.kiev.ua)

Boris Tsyganok - Head of International Relations Department (e-mail: tsyganok@uap.ntu-kpi.kiev.ua)

Nikolaj Pechenik - Vice-Rector in charge of administrative and economic work (e-mail: pechenik@uap.ntu-kpi.kiev.ua)

Ivan Korobko - Vice-Rector in charge of teaching educational work

Volodymyr Shechovtsov - Deputy first Vice-Rector

Volodymir Timofieiev - Deputy first Vice-Rector

Sergey Voronov - Deputy Vice-Rector in charge of scientific work

Danil Benatov - Deputy Head of Student Council of the University.

**Visiting Advisor Program Consultant Visit
to the National Technical University of Ukraine
'Kyiv Polytechnic Institute', Kyiv
September 16-22, 2001**

<i>NTUU 'KPI' participants</i>	<i>Topic</i>	<i>Location</i>	
Sunday 16.09.01			
Arrival and accommodation in hotel	Int. Rel. Representative	William Baker, Judith Woodard	Airport 'Boryspil' 21:30 – flight #169

Monday 17.09.01			
Arrival and accommodation in hotel	Int. Rel. Representative	Piotr Ploszajski Daniel O'Hare Marty Gecek	LO5753 (16:15) KL1385 (14:55) OS 615 (13:35)
18:00 Welcome Dinner			
Tuesday 18.09.01			
08:00 – 08:30 Breakfast			
09:00 – 09:30	M. Zgurovsky (all experts from NTUU 'KPI')	Welcome. Opening meeting. Presentation of the participants. Defining of seminar's main issues.	Room 157
09:30 – 10:30	M. Zgurovsky (all experts from NTUU 'KPI') Yu. Yakimenko – reporter	Structure and administration system of NTUU 'KPI'	
10:30 – 11:00 Coffee break Room 157			
11:00 – 11:30	M. Zgurovsky (all experts from NTUU 'KPI')	Presentation: NTUU 'KPI' - trends and visions, history and modern state of University, strategy of its development	
11:30 – 13:00	Excursion	University's facilities	Tsyganok B.
13:00 - 14:30 Lunch			
14:30 - 15:30	In the meeting take part: M.Yu. Ilchenko S.O. Voronov L.R. Slobodyan V.G. Zhmurko B.A. Tsyganok V.G. Koval I.O. Nikitina	Sources of finance and use of researches of NTUU 'KPI' structural subsections	
15:30 - 16:00 Coffee break Room 157			
16:00 - 17:00	Report of the Salzburg seminar expert	Sources of finance of researches in Universities of Western Europe	
17:00 - 17:30 Debriefing			
17:30 - 18:30 Dinner			
18:30 - 22:00 Excursion tour 'Kiev in the evening'			
Wednesday 19.09.01			
08:00 – 08:30 Breakfast			

09:00 - 10:30	In the meeting take part: Yu.Yakimenko, V. Shehovtsov, V. Timofieiev V. Golovenkin I.A. Dychka S.M. Shukaev I.O. Nikitina O.P. Zahovaiko	System of Higher Education in Ukraine on the example of NTUU 'KPI'	
10:30 - 11:00	Coffee break Room 157		
11:00 - 12:00	Report of the Salzburg seminar expert	System of Higher Education in West countries	
12:00 - 13:00	All participants of the previous topic	Discussion - comparison of Higher Education system	
13:00 - 14:00	Lunch		
14:00 - 14:45	Meeting the students		Korobko
14:45 - 17:15	Visiting of Kiev-Pecherska Lavra		
17:15 - 18:30	Debriefing		
18:30 - 19:30	Dinner		
19:30 - 21:30	Visit to the National Opera of Ukraine		
Thursday 20.09.01			
08:00 - 08:30	Breakfast		
09:00 - 10:30	In the meeting take part: I. Korobko V. Mironov D. Benatov V. Mosarik L.M. Shikalova A.V. Kovtun S.M. Shukaev	Problems of students self-government and democratization of studentship	
10:30 - 11:00	Coffee break Room 157		
11:00 - 12:00	Report of the Salzburg seminar expert	Experience of self-government in Western Universities	
12:00 - 12:30	Debriefing		
12:30 - 14:00	Lunch		
14:00 - 15:30	M. Zgurovsky and experts	Meeting with city administration	
16:00 - 16:30	Removal		
16:30 - 17:30	M. Zgurovsky and experts	Meeting in the Ministry of science and education	
18:00 - 19:00	Dinner		

Friday 21.09.01			
08:00 – 08:30 Breakfast			
09:00 - 10:00	In the meeting take part: S. Sidorenko B. Tsyganok I. Dychka S. Shukaev L. Shikalova V. Koval I. Nikitina	International cooperation of NTUU 'KPI' and ways of its development	
10:00 - 10:30 Coffee break Room 157			
10:30 - 11:30	Report of the Salzburg seminar expert	Experience of international cooperation in Western Universities	
11:30 – 12:30 Debriefing			
12:30 – 14:00 Lunch			
14:00 – 16:30	Only visiting team members (in hotel)	Preparation of Report for Rector	
16:30 – 17:30	Visiting team members	Report presentation for rector	
17:30 – 18:30 Press-conference			
17:30 - 19:00	Visiting team members and experts of NTUU 'KPI'	Rector reception of visiting team members with the participation of diplomatic corps representatives (Farewell Dinner). Concert	
Saturday 22.09.01			
<u>Andriivsky uzviz – souvenirs</u>			
08:00 – 08:30 Breakfast			
Departure of the team members	Int. Rel. Representative	Piotr Ploszajski Daniel O'Hare William Backer and Judith Woodard	LO 752 (14:25) KL 1386 (15:50)
Sunday, 23.09.01			
Departure of team members	Int. Rel. Representative	Marty Gecek	OS 8616 (08:00)

7. Others

7.1. Pilot Project *Setting up the Distance Education System in Ukraine*

Duration: 09.2001 – 08.2002

Partnership: IITE, NTUU'KPI', Institute for Applied System Analysis,
Ukrainian Distance Learning Center

Target groups:

- Undergraduate students
- Graduate students
- Postgraduate students
- Academics
- Public administrators
- Employees from industry
- 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 (Ukraine and other CIS Countries)
 - Western Europe and North America
 - Latin America
- Interregional
 - International

Funding sources

Funding source	Type of Organisation/Institution	Period	Amount US\$
UNESCO Contribution	IITE	09.2001... 08.2002	15 000
Other contributions: Please specify, for each contribution: Institution, City, Country	IASA of NASU and MESU UDLC	09.2001... 08.2002	5 000 5 000

7.2. *Training Specialists for Distance Learning in Ukraine* Project has been submitted to UNESCO grant support in December 2001.

IV. Impact

The scientific-technical intelligentsia of Ukraine efficiently helps to raise the role of UNESCO under conditions of integration and globalisation.

This refers, first of all, to all international technical Chairs of UNESCO, notably the Chair of higher technical training, the Chair of applied system analysis and informatics at the Kyiv Polytechnic, the open Focal Point Institute of UNESCO for informational technologies in education.

The dualistic role of the scientific-technical intelligentsia – to give the world modern technologies and at the same time improve them – is effective for the world, its future and all generations to come.

Ukraine's intellectuals have unique preconditions for that.

First, they are large in number and represent a wide spectre of modern scientific directions and knowledge. Second, Ukrainian science and technology are sufficiently advanced, which makes Ukraine a fairly authoritative state in this respect. Third, our scientific-technical intelligentsia is well-structured in professional societies. State and on-state academies of science and dozens of public scientific societies function in the country, ideologically and professionally uniting them. Fourth, the social prestige of intelligentsia remains high, and its outstanding representatives enjoy the trust of the nation.

Natural-scientific and technical education plays a particular role in the society's progress, especially in the periods of riding out crises.

The power of technical education is in its social and philosophic sources and world outlook: it is objective, substantial, international and systemic and is based on the fundamental laws of natural science; it is also variant and develops a system of priorities, open thinking and individual independence.

Finally, Ukraine has a highly developed system of education, vocational in particular.

Looking into the future, we place special hopes on young people. Here, we should consider that ideology, sense of being and priorities of the fathers suffered ruination as fallacious and unconvincing in many respects. Of aid, in search for new social values of the young people, must be the system of vocational education in the country so that they should be ready to take over all the problems that the society is to solve.

V. Forthcoming activities

1. The 9th All-Ukrainian Conference *'Management and marketing: progress and prospects'*
Date and place: 13 March 2002, NTUU 'KPI'
Partnership: NTUU 'KPI', Faculty of Management and Marketing
2. International Conference *'Development of social work in Ukraine and abroad'*
Date and place: 9-10 May 2002, NTUU 'KPI'
Partnership: NTUU 'KPI'
3. The 5th International Conference *for students, post-graduates and young scientists 'Ecology, Human Being, Society'*.
Date and place: 15-17 May 2002, NTUU 'KPI'
Partnership: NTUU 'KPI'
4. International Congress *'Aluminium-2002'*
Date and place: 20-23 May 2002, NTUU 'KPI'
Partnership: NTUU 'KPI' Research-and-development center
'Resource-saving technologies'
5. The 3rd International Conference in the field of programming *'UkrPROG – 2002'*
Date and place: 21-24 May 2002, NTUU 'KPI',
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 National Academy of Sciences
of Ukraine

6. Conference on *Problems of fore-university training of foreign citizens at modern point*
Date and place: 6-8 June 2002, NTUU 'KPI'
Partnership: NTUU 'KPI', Association of Rectors of technical universities of Ukraine
7. International Conference on *Gender component in the structure of technical education and natural sciences*
Date and place: 20-22 June 2002, NTUU 'KPI'
Partnership: NTUU 'KPI', Association of Rectors of Technical Universities of Ukraine, Ukrainian Center of Gender Education at the NTUU 'KPI', Canada-Ukrainian Gender Fund, UNDP, International Renaissance Foundation
8. The 3rd International Conference '*Progressive Technique and Technology-2002*' (Sevastopol)
Date and place: 25-28 June 2002, Institute of Nuclear Power and Industry, Sevastopol
Partnership: NTUU 'KPI', Institute of Mechanical Engineering
9. The 4th International Conference *for Students, Post-graduates and Young Scientists 'System Analysis and Informational Technologies'*
Date and place: 1-3 July 2002, NTUU 'KPI'
Partnership: NTUU 'KPI', Institute of Applied and System Analysis
10. Conference on *Hydraulic technologies, navigation, traffic control and mobile objects construction*
Date and place: 25-26 September 2002, NTUU 'KPI'
Partnership: NTUU 'KPI', Aircraft and Space Systems Faculty

VI. Development prospects

Over the past decades a considerable quantitative and qualitative change has occurred in many national educational systems due to rapid progress of the science and technology, and growing impact of the latter upon all aspects of the society life. The market conditions have urged the necessity of the global changes in the approach to the very process of teaching and learning.

It is necessary to set up and develop the flexible system of wide-range continuous education which includes providing the necessity of acquiring a new (one more) qualification and also, which is very important nowadays, a permanent rise of the professional level of specialists; and training young people for the new conditions of their professional activities without interrupting their work.

The UNESCO Chair in Higher Technical Education, Applied System Analysis and Informatics, the Ukrainian Distance Learning Centre, and IITO Focal Point are the leading organisations, promoting the development of Distance Learning ideas in Ukraine.

One of the major objectives of the UNESCO Chair and the Ukrainian Distance Learning Centre in this field is integration of the available distance training courses into the national library with its further integration into the unified library of IITE, to provide the automated access to it through Internet, to create the multilevel hierarchy of classification and control, which consequently makes it possible to get the certificate on distance education and to grant a student the diploma confirmed by the state institution.

Since September 2001 the UNESCO Chair has been taking part in the pilot project 'Setting up the Distance Education System in Ukraine' that is carrying out in the framework of IITE activities.

Ukraine, with the 52 millions population, has 2 millions students of universities and vocational schools and also 7.5 millions schoolchildren who are studying at 24 thousands educational institutions of various levels. Besides, in Ukraine there are more than 8 millions of the workable population with higher education. However, having all these positive aspects, because of the economic difficulties Ukraine is lagging behind the developed countries of Europe in the field of informatization of the educational system. Only 60% schools out of 22.5 thousands have the computerised classrooms and only 10 % out of them have the Internet connection.

The main outcome of the UNESCO Chair activities in this field is also is establishment of permanent discussion on the problems and state-of-the-art in Distance Education System of Ukraine.

It's also important that the new information and educational

technologies usage assists integrating into the general educational network of UNESCO, which will allow the following:

- ✓ to use the already existing UNESCO educational information technologies;
- ✓ to develop new educational information technologies meeting the requirements to the similar technologies in UNESCO educational environment for their world-wide use.

The UNESCO Chair has sufficiently high staff and technical potential and is ready to implementing new ideas and new forms in the field of distance learning, including introduction of information technologies and usage of telecommunication networks at educational and scientific institutions of Ukraine.

Great attention, as further, will be paid to integration of Ukrainian youth, academicians, scientists and specialists into world educational and scientific community. The series of seminars on international co-operation will be continued in the 2002. We plan to wide the spectra of international bodies, invited to take part in these seminars. Moreover, the same series will take place for another target groups, i.e. scientists, academicians, etc.

The UNESCO Chair in Higher Technical Education, Applied System Analysis and Informatics takes part in at least 10 events, mentioned above (section *Forthcoming events*).

