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“Researchers’ nights” 2006

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Deliverable D3.1 Exhibition prepared in Sofia, Stara Zagora, Varna and Rousse

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Revision 1

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Dissemination Level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

The objective of this work package is to raise public understanding of the contribution of Bulgarian and European researchers to social and economic progress and development. Therefore, some exhibitions on prominent researchers were arranged in order to highlight to the public the scientific traditions in Europe, and in Bulgaria in particular, and encourage young people in Bulgaria to continue these traditions, as well as to be proud with the achievements of Bulgarian science.

1. EXHIBITIONS IN SOFIA

Exhibitions prepared by Sofia University - CIST

In the halls of the building of Faculty of Physics at the Sofia University were shown the following exhibitions:

- **Exhibition “White Silence”– Landscape paintings from Antarctica, Author Zlatil Vergilov** - Zlatil Vergilov is lecturer in Sofia University “St. Kliment Ochriski” since 1983. He worked as chief assistant professor in the Department Mineralogy, petrology and mineral resources of the Faculty of Geology and geography. His research interests are focused in the field of real mineral structure in petro-genetic aspect. He has participated in 7 Sofia University expeditions in Antarctica. In 1987-88 he has been a member of the expedition selecting the place and raising the construction of the first buildings of Sofia University Base. Mr. Vergilov has worked on various research projects and has been assigned as SU Base manager. His hobby is aquarelle painting. The exhibition was shown also at the web site of the Club ‘Young Scientists’ (<http://www.cys.bg/gallery/thumbnails.php?album=2>).
- **HOLOGRAMS EXCIBITION – In the Faculty of Physics lobby is presented the exhibition of holograms, presented by Department of Quantum Electronics.** The holograms are made in the Central Laboratory of optical storage and information processing in Bulgarian Academy of Sciences, where work many Sofia University alumni. The exhibition is presented by ass.prof. Ivan Stefanov, Department Quantum Electronics, Faculty of Physics, Sofia University “St. Kliment Ochriski”.
- **EXHIBITION “SCIENCE ART”** – The presented master-pieces are produced via new photographic method using phosphorescence, developed by Yavor Shopov, Ph.D, and ass. Prof. Ludmil Tzankov from Faculty of Physics, Sofia University “St. Kliment Ochriski”.
- **EXHIBITION ‘VISIONS OF SCIENCE’** – This is a photographic awards scheme organised by Novartis Pharmaceuticals to encourage ongoing discussion about science (<http://www.visions-of-science.co.uk>). The collection of 12 awarded photographs was given by the British Council – Bulgaria for presenting it during the researchers night, as well as to showing it on-line (<http://www-it.fmi.uni-sofia.bg/u-night/vision/visions-of-science.pdf>).

Exhibitions prepared at the National Polytechnic Museum

In the National Polytechnics Museum - Sofia to the public were presented two exhibitions:

- The exhibition ‘**Bulgarian scientific families**’ focused on three successive generations of Bulgarian researchers with contributions to science from the Family Pentchevi – the professors Peter Pentchev, Nikola Penchev and Elka Pencheva – grandfather, father and daughter. All of them studied the under earth natural fluids (water and gases) and the processes of their formation and evolution, as well as their physic-chemical and geo-chemical characteristics from the point of view of the radioactive phenomenon, of chemistry and geo-chemistry of the rare gases and the hydrochemistry of the rare and the trace elements of the thermo mineral water-gas systems. .

- The exhibition **‘Bulgarian clues in science’** presents on thematic posters comprising chemistry, physics, mathematics, biology, medicine and technology the work of 10-15 Bulgarian researchers whose contributions to science and technology go beyond the Bulgarian borders. It does not contain the names of all known Bulgarian researchers, but makes an attempt to popularize their activities and raise their prestige in the society, as well as increase the national self-confidence of the young people. The Museum team considers to continue working on this topic and to enrich the materials in the exposition.

Exhibitions prepared at the Technical University – Sofia

On 22 September the TU-Sofia will open to the public the halls of the University buildings for two exhibitions:

- **ACHIEVEMENTS IN SCIENCE AND TECHNOLOGY AT THE TU-SOFIA**, located at the Museum of TU in block 1.

The main goal of the exhibition is to familiarise the general public and the young people with the achievements of the TU-Sofia researchers and their contribution to the technological progress of Bulgaria and more specifically in the area of high-tech, computer systems, communications, automation, engineering design, physics, etc. It reveals the results of important national and international projects with wide impact on social and economic development.

The exhibition included:

- The first television centre in Bulgaria and on the Balkan peninsular, which includes two TV receivers - “Leningrad 2”, used in receiving one of the first broadcasted TV program, and “PAI” – a present from the English company RUE;
- A prototype of diesel engine D 4000, a gift from the author of the embedded in it 5 patents Prof. Hristo Kalaydjiev;
- A device for complex test of cylindrical gear UKP 200, a research project of a team from dept. ”Precision Technique and Instrumentation” at the Faculty of Mechanical Engineering;

In addition, the visitors were able to see:

- A system for tracing of electrical net frequency with digital visualization, processing and storage of the information is demonstrated.
- Posters from scientific conferences, carried out in 2005-2006, are exhibited as well, mainly with the participation of Assoc. Prof. Peter Dinev, a lecturer on electrical apparatus in the Faculty of Electrical Engineering.
- An extraordinary interest invoked the patent “ Method for the production of red wines” with authors Assoc. Prof. Dinev, Prof. Penchev and others.

- **ART OF LECTURERS FROM TU-SOFIA “The Divergent Vision of Lecturers from the Technical University – Sofia”** - paintings, photos and plastics of lecturers’ works in the lobby of block 1.

The exhibition aims at revealing the contemporary researchers’ personality with his/her hobbies, different talents and thus to make the carrier of a researcher attractive for young people. The exhibitions will create a link between science and technology on one hand and society on the other. The collection was selected and arranged with the kind assistance of the department of Humanities and Design at the TU-Sofia.

The exhibition “The divergent vision” shows lecturers and researchers from the TU-Sofia from another viewpoint as artists. In the exhibition were presented the arts works of the following TU lecturers:

- Prof. Dimitar Ermenkov – from dept. ”Humanities and Design”, exhibits monumental and decorative woodwork;

- Assoc. Prof. Emilia Chaushova - from dept. "Humanities and Design", also expert in UNESCO in the area of Design of the living surrounding, exhibits design of a living surrounding and children's toys;
- Assoc. Prof. Sasho Draganov - from dept. "Humanities and Design" exhibits painting in aquarelle and pastel;
- Assoc. Prof. Penka Popska - from dept. "Humanities and Design" exhibits portraits and landscapes - oil;
- Assoc. Prof. Nikolay Angelov - from dept. "Theory of Machines and Mechanisms" exhibits landscapes - aquarelle;
- Assoc. Prof. Mariya Evtimova - from TU associated college "N.Rilski" in Dupnitsa exhibits contemporary painting – mixed technique;
- Assoc. Prof. Tzvetanka Tankova - from dept. "Humanities and Design" exhibits art collage – mixed technique;
- Assis. Prof. Svetla Vassileva - from dept. "Humanities and Design" exhibits art photography;
- Assis. Prof. Emilia Ochkova - from dept. "Humanities and Design" exhibits paintings and art photography;
- Assis. Prof. Boryana Georgieva - from dept. "Humanities and Design" exhibits goblens handmake;
- Assis. Prof. Sofia Angelova - from dept. "Humanities and Design" exhibits art photography;
- MEng. Tzvetelin Ljubenov – Ph.D. student at dept. "Humanities and Design" exhibits aquarelle and art photography;

2. EXHIBITIONS AT "ANGEL KANCHEV" UNIVERSITY OF ROUSSE

According to the project objectives, the University of Rousse executed the tasks within this deliverable by organizing the following activities:

- Exhibition of pieces of art of talented university researchers in the University newspaper "Studentska Iskra".

Talented researchers gave their pieces of art to be exhibited by publication in the special edition of the University newspaper "Studentska iskra". In this way the project staff organized a specific exhibition. The newspaper contains the following names of researchers and their personal pieces of art:

- *Photos* taken by university researchers, namely:

Prof. Stepan Terziyan ,DSc– photos of Leiden and Varna by night.

- *Poems and books* published by university researchers, namely:

Prof. Svetoslav Bilchev, PhD – the poems "Love" and the book "Such love";

Elisaveta Yancheva, PhD – the poems "Question marks", "Some again" and the books "Irretrievable" and "Surplus reality".

Prof. Boris Tomov, DSc – the poems "Accidentally", "Separation", "Tango" and the book "And remain alive";

Prof. Jivodar Dushkov – the poem "They" and the books "Puzzle", "111 small stories for big people", "Stripteases" и "60 smiles";

Prof. Trifon Georgiev, PhD – the book "From Tutrakan to California and China";

Prof. Ivan Radkov , PhD– the book "Confession. Memories";

Prof. Kiril Enchev, PhD - the book “Star moments in my life”;

Prof. Ivan Nedelchev, PhD - the book “The Rousse university. Memories”;

- *Paintings* of university researchers, namely:

Prof. Todor Delev – three paintings exhibited in the newspaper

- *Anecdotes*, connected with the University history, with the quotation of university researchers and lecturing staff members
- The “Platform of young researchers” from the Pedagogical Faculty focused on scientific achievements, inventions, PhD-thesis, thoughts etc of the young research generation.

3. EXHIBITIONS AT TRAKIA UNIVERSITY IN STARA ZAGORA

The work, connected with the organisation of the Saloon of technologies and exhibitions, consisted of two main parts. At the preparatory phase the most famous high-tech companies were identified in the region. The specially prepared letters were sent with detailed information about the whole initiative – “Researchers’ Night” at Pan-European level, about the project, its main objectives and tasks. The companies were selected upon recommendations of the chairman of Scientific-technical Union – Stara Zagora branch and the directors of Stara Zagora Chamber of Commerce and Industry and Bulgarian Industrial Association. Official and personal contacts, face-to-face communications and visits were made with a purpose to initiate the participation of the regional high-tech firms in the saloon. Unfortunately the date of the event was chronologically near to the opening of the International Autumn Fair in Plovdiv, so some companies refused to participate because of their hard occupation in the connection with the preparation for Fair. Nevertheless two well-known high-tech companies Media Systems JSC and BULTECH 2000 Ltd. prepared presentations and provided high-tech products for the exhibition in the Saloon of technologies: DVDs, Ultrasonic Milk Analyzers etc. A hall for the Saloon was prepared, equipped with multi-media projects and screen; the tables were specially arranged, decorated after a design. The provided products were exposed as well as leaflets and other advertisement materials.

For the exhibition “THE WORLD OF PLANTS” all the photographs were printed in colours by the Project Team and were arranged by a professional designer.

Jointly with the director of People’s Astronomical observatory and planetarium “Yuri Gagarin” – Dr.Alexej Stoev and the teachers of Astronomy were identified which exhibitions and presentations of the young researchers from their Astronomy School to be included in the Saloon.

At the Opening of the Saloon of technologies the program included:

- Media Systems Presentation, made by Dr. Dimitr Jorgov and a film “New thinking creates new solutions” – 2005, Media Sys
- BULTECH 2000 Ltd. Presentation, delivered by Valentina Georgieva
- Presentation of the Astronomy School’s achievements, made by Penka Gancheva, astronomer and teacher from People’s Astronomical observatory “Yuri Gagarin”

Presentations, delivered by the students – awarded participants in the different international programs, such as “Touch a star”, “Hunter of sky treasures” and others.

- *Sun and ozon*, presented by Valentina Georgieva, developed under the supervision of Nadja Kiskinova, teacher of astronomy

- *Supernova of Itagaki*, presented by Marina Zagorcheva, developed under the supervision of Nadja Kiskinova, teacher of astronomy
- *Gravitation lenses*, presented by Zornitza Valkanova, developed under the supervision of Penka Gancheva, teacher of astronomy

Together with the presentation of the Astronomy School there was a photo-exhibition, prepared by the astronomers their students in two topics: “Total solar eclipse – 2006, Antalia”, “Pictures from Hubble – NASA”

- Presentation “The World of Plants – from inside and from outside” (Artistic and Scientific Approach), performed by Dr. Violeta Bozhanova and Photo Exhibition

Authors of the exhibition: Dr. Violeta Bozhanova and Boriana Hadjiivanova from national centre of Agrarian sciences, Institute of Cotton And Hard Wheat, Chirpan.

Dr V. Bozhanova has been working for more than 20 years in the field of plant biotechnologies and their use in the selection. She manages some research projects funded by the Ministry of Education and Science and is author of more than 40 scientific publications. At the same time she publishes in the press translations from German poets.

Boriana Hadjiivanova is a young researcher in the field of biotechnologies, author of two scientific publications.

The Saloon of technologies was visited by young people, parents, researchers, and teachers and was found very interesting. The young people had the opportunity to communicate with industrial researchers, to ask them different questions and to learn about the possibilities for career in the high-tech industry in the region. The representatives of high-tech companies stressed upon the necessity for young people to develop their skills and to learn foreign languages.

4. EXHIBITIONS AT TECHNICAL UNIVERSITY - VARNA

The exposition was arranged in the Library at the New Study Building of TUV.

The artists-participants were as follows:

- Assoc. Prof. Dr. Angel Dimitrov, head of ICE Department of TUV – PHOTOGRAPHY
- Assoc. Prof. Dr. Radko Radev, dean of the Faculty of Mechanical Engineering and Technology – PLASTIC ARTS
- Assoc. Prof. Venelin Bozhidarov, Department of machine elements - PLASTIC ARTS
- Assoc. Prof. Plamen Bratanov – ART OF PAINTING
- Assoc. Prof. Iliya Yankov – GLASS-STAINING

The exhibition was visited by schoolboys and schoolgirls, parents, school-teachers, citizens, Bulgarian and foreign students and lecturers, the managing body of TUV and by 46 foreign scientists (members of Black Sea University Association and participants in the Congress of BSUN, which took place in TUV, 21-23 September).