

SPIE Student Chapter Report June 2006- June 2007 of Taras Shevchenko Kyiv National University

Date: 15 June 2007

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Reported period: 15 May 2004 – 15 December 2004

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2006 - 2007 Officers

May, 18 our Chapter had held election and new SPIE Officers of Chapter are:

President – Fedosenko Oliana

Vise-president – Hakimov Roman

Treasurer – Olga Lopatynska

Secretary – Bukatar Oleksandra

Since summer 2006 our Chapter held the number of activities with educational and inspirational purposes.

Yablochkova Kateryna, previous President of our Chapter have attended the “Optics and Photonics 2006” in San Diego, CA in August with the support of Officer Travel Grant. She have made the report after this travel for Chapter and the staff of our Optics Division and she have outlined that we should concentrate our power not only on holding Conference but on some other educational and scientific activities.

7-th International Young Scientists Conference “Optics & High Technology Material Science SPO 2006” was been held at Physics Department of Taras Shevchenko Kyiv National University in October 26 – 29, 2006. It is a traditional Conference. As previous conferences its main goal was to broaden the range of knowledge in optics and to profound the range of interests of young researchers as well as exchange of the opinions on the decision of the mainstream optical problems.

The topics of this Conference were following:

- A: Physics of Condensed Matter and Nanotechnology
 - B: Lasers and Optoelectronics
 - C: Optical Design and High-Speed Photography
 - D: Biomedical Optics
- and the new Special Workshop "3-D Imaging: Technology and Application"

Thirteen invited speakers had presented their lectures which gave an opportunity to look close into nanotechnology investigations, holography, biophotonics and laser optoelectronics. The most of lectures were presented by foreign professors. It was necessary for gaining some insight about world research. Ukrainian representative of world optical equipment producer, Carl Zeiss Company Dr. Olena V. Vertsanova have presented the report about some interesting facts in instrument-making industry world.

Due to this meeting the contacts between our Chapter SPIE and their company were continued, and now four students of our University (in particular SPIE Chapter Member Roman Hakimov) is awarded by Carl Zeiss Scholarship.

During the Conference the participants had an opportunity to attend 36 oral reports and to discuss poster reports (85).

Twenty nine participants have arrived from foreign countries (Brazil, UK, Ireland, Canada, Mexico, Moldova, Germany, Poland, Russia, Romania, USA, France and Japan). They presented great scientific centers of their countries. Ukraine was presented by graduate and post graduate students and young scientists from Kyiv Universities, Academic Institutes and Universities from 8 regions of Ukraine.



Prof. Young S. Kim during his Invited Lecture at SPO 2007



Coffee break at SPO 2007 with SPIE Student Chapter Advisor, Head of Organizing Committee Dr. Prof. Leonid V. Poperenko (right)

The Conference was possible because of strong preparation work and our sponsors. This year three sponsors have made financial supports (SPIE as well as ICO and Central Design Office "Arsenal" in Kyiv).

The main work was made by Student Chapter SPIE of Kyiv National University. The members of this Chapter are the non- and postgraduate students who take an active part in research work. First of all they are driven by interest to leading optics researches in the world.

It is useful to make such type of conferences. The results are following: the abstracts was published, the papers of the Conference will be published, collaboration was established with the scientists from Mexico and Moldova. The Conference gave great opportunity for students to have some discussion with the world-known scientists.

Young scientists from many universities have appreciated sincerely organizers. In particular the student of Dnipropetrovsk National University Oleg Guziy thanked and congratulated by kind words all Organizing Committee. Also as a participant Kseniya Moskalenko from Kiev natural-scientific lyceum №145 has presented her poster and was chosen as the youngest participant SPO 2006. She was awarded with excellent book by Academician Lysytsa „The amusing optics”.

Jose Italo Cortez et al from Mexico and 4 Ukrainian participants have published their work “Identification of defect in the surface of the dental enamel” in “Physical Bulletin” 2007, No.3 of Physics Dept. of our University, and six works are presented for publication in “Functional Materials” (Kharkiv, Ukraine).

Continue existing collaborations and finding new partners. Upgrade Chapter Library and purchase some technical equipment for presentations (notebook for the special our Program for secondary schools – presentations and lectures for secondary school students).

Video presentation was made for future Optics Division students for inspiration in optical problems and finding solution ways during entering to our Department in June/July 2007.

We have tight contact and joint activity (Scientific Seminars) with National Technical Univ. of Ukraine Chapter in particular with Dr. Volodymyr Borovytsky, PhD student Andrew Ovechkin.