

Semi-Annual Report of Activity 2004

Taras Shevchenko Kyiv National University SPIE Student Chapter

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2004-2005 Officers

President: Mykhailo Ozerov (6-th course student); e-mail: ozher@ukr.net

Vice-President: Sergiy Balytskiy (4-th course student); e-mail: BalytskiyS@univ.kiev.ua

Past President: Viktor Lysiuk (2-nd year PhD Student); e-mail: lysiuk@univ.kiev.ua

Treasurer: Yaroslav Filipov (6-th course student); e-mail: filipov@univ.kiev.ua

Secretary: Angelika Luchenko (6-th course student); e-mail: luchenko@univ.kiev.ua

Committees

Executive Committee, total 5 members, Chair Viktor Lysiuk

Program Committee, total 5 members, Chair Yaroslav Filipov

Membership Committee, total 5 members, Chair Olexandr Guzey

Membership

Number of current student members of the chapter: 63 (sixty three) students

Number of student members for the previous reported period (May 2004): 41 students

Number of new student members: 23 students

Number of students leave chapter: 1 (Ms. Olena Ivashyna)

Net Gain of members: 22 students

Treasurer's Report

Chapter balance: 1,100 \$ chapter funds received in November 2004 (SPIE/Ukraine)

Plus income: Meetings - \$300 (from Organizing fees of SPO 2004 Conference)

Personal Dues - \$315 (calculated as \$5 x 63 members)

Other support: computers and related equipment as a gift from our sponsors.

Total: \$1,715

Chapter Meetings

Special Additional Spring Meetings: organized twice: 25 and 28 May 2004

25 May 2004, present: **SPIE Vice-President Prof. Malgorzata Kujawska**, chapter officers, advisor and the most part of members. Program of the meeting: Scientific Lecture in field of Holography; Overview of the benefits of SPIE Membership and informal talking.

28 May 2004, present: **Chair of SPIE Membership Committee, Dr. James Grote**, chapter officers, advisor and the most part of members. In program of the meeting: informal lecture on DNA, properties and technologies and discussion of ideas about possibilities of applying SPIE resources for students needs.

Summer Meeting: was held on 12 June 2004 with presence of **Acad. V. Arpishkin**, the President of Rozhdestvensky Optical Society (St. Petersburg, Russia) together with **Dr. L. Konopaltseva**, the President of Ukrainian Optical Society. In program: informal lecture and discussions with chapter advisor about possibilities of further collaboration and participation at Conferences organized in Ukraine and Russia.

Fall Meeting: was held 31 October 2004 during the last Day of the SPO Conference, co-organized by SPIE Student Chapter Chapter. Present: Invited speaker Prof. A. Davidhazy, advisor of RIT SPIE Student Chapter, Rochester, NY, USA and all members of the Chapter.

Invited Lecturers

28-31 October 2004: Prof. A. Davidhazy, advisor of RIT SPIE Student Chapter, Rochester, NY, USA was invited to give lectures under the SPIE Visiting Lecturer program. The Travel Grant of \$800 was given by SPIE for compensation of his travel needs. The accommodation was made by chapter funds.

In addition, there were organized 5 Invited lectures during SPO 2004 Conference: OSA and APS Fellow Prof. Yuriy Kivshar (Cranberra, Australia), Dr. Mauro F. Pereira (Cork, Ireland), Dr. Tom Oates (Germany), Dr. Vladimir Kuzkov (Ukraine), Dr. Morten Thorhauge (Denmark).

In the last Fall Chapter meeting in November Prof. Partch (New York, USA) gave a lecture in the topic of biomedical optics.

Attended Conferences

Yaroslav Filipov, 20-th International Conference of Condensed Matter Division of European Physical Society, 19-23 July 2004, Prague, Czech Republic.

Ruslana Udovytska, 49-th SPIE Annual Meeting “Optical Science and Technology”, 2-6 August 2004, Denver, CO, USA.

Viktor Lysiuk, 88-th OSA Annual Meeting “Frontiers in Optics/Laser Science”, 10-14 October 2004, Rochester, NY, USA.

More than 20 SPIE student members present their current scientific work at SPO 2004 Conference co-organized by our SPIE Student Chapter annually.

Grants

Ruslana Udovytska:

SPIE Leadership Travel Grant (\$1,000) for attending 49-th SPIE Annual Meeting 1-6 August 2004, Denver, CO, USA.

Viktor Lysiuk:

OSA Leadership Travel Grant (\$ 814) for attending 88-th OSA Annual Meeting 10-14 October 2004, Rochester, NY, USA.

OSA Foundation Travel Grant (\$318) for attending 88-th OSA Annual Meeting.

ICTP Travel Grant for attending Winter College 7-18 February 2005 in Trieste, Italy.

Organizing Activity

Chapter is the co-organizer of Annual International Young Scientists Conference “Problems of Optics and High Technology Material Science”.

The conference was organized 28-31 October 2004 at Department of Physics, Taras Shevchenko Kyiv National University. The main topics were: A. Nanotechnology, thin films and Coatings; B. Lasers and Optoelectronics: materials and devices; C. Biomedical application of Optics.

Number of participants: 108.

Countries represented: Australia, Belarus, Denmark, Finland, France, Germany, Ireland, Romania, Russia, Turkey, Ukraine, United Kingdom, USA, and Uzbekistan.

Proposed Activity for 2005

- Popularization of Optics through SPIE Publications, Conferences, Visiting Lecturers and Short courses.
- Sending of SPIE Student members to SPIE Symposia and Exhibitions.
- Organization of the International Conference “Optics and High Technology Material Science 2005” 27-30 October 2004, Kyiv, Ukraine.
- Help students to apply for Scholarships, Grants and to publish their best papers at SPIE and other peer-reviewed Journals.

- Attend Izum Optical Factory (Izum, Kharkov region, Ukraine) by all SPIE Student members for practical study of Glass and Lens production technology.
- Continue existing collaborations and finding new partners and sponsors.
- Upgrade Chapter Library and purchase some technical equipment for presentations.
- Participation of two or more students with Chapter advisor at 50-th SPIE Annual Meeting.