



SPIE Student Chapter at Ivan Franko National University of Lviv



<http://www.electronics.wups.lviv.ua:8102/stchapter>

Student Chapter Report

May 2006-December 2006

Name of Chapter:

SPIE Student Chapter at Ivan Franko Lviv National University

Person Completing Form/Contact:

Rostyslav O. Bilyy, Chapter President

E-mail: bilyy@txnet.com

Number of members: 32

Chapter Officers elected for the next Academic year:

President: Rostyslav Bilyy bilyy@txnet.com

Vice President: Ivanna Yarynovska ivanka_82@rambler.ru

Secretary: Bohdan Tsop tsop_87@yahoo.com

Treasurer: Cristina Mayor c_mayor@ukr.net

Chapter activities:

1. Chapter Bulletin Board was established and is constantly renewed.
2. During this year our chapter was very successful in receiving SPIE grants and support:
 - 2006 SPIE Grant awarded to our Chapter
 - SPIE 2006 Scholarship awarded to Rostyslav Bilyy – Chapter President
 - SPIE Student Travel Contingency Grant awarded to Ivanna Yarynovska – Chapter Vice President
3. Chapter President, Rostyslav Bilyy, has presented an invited paper at SPIE Newsroom “[Using biophotonics to study programmed cell death](http://newsroom.spie.org/x5073.xml)”. (<http://newsroom.spie.org/x5073.xml>)
4. A visit of Prof. Tuchin, Saratov State University, was organized to Lviv during Dec 4 – Dec 6, in frames of Visiting Lecturer Programm. Prof. Tuchin presented a lecture and a SPIE Course “Optical Clearing of Tissues and Blood”.
5. Chapter members Oxana Drobchak and Rostyslav Bilyy participated in IV Student Scientific Conference, Wroclaw University of Technology, May 22-24, 2006, Wroclaw, Poland and both made oral presentations of their research works. As a result of this visit a cooperative project with Wroclaw University of Technology was started.
6. Participation in the SPIE Annual Meeting and Optics and Photonics Conference - 2006 in San Diego. Rostyslav Bilyy have presented a poster and a an oral presentation during CRDF Innovation Forum (as a winner of CRDF Partner Development Grant).
7. Chapter Vice President Ivanna Yarynovska, presented a poster during BIOS-2006 in San Jose, CA.
8. Members – 3 new members in December 2006. We expect new members soon.
9. Meetings with the students of Ivan Franko Lviv National University, Lviv Polytechnic University and Lviv Medical University with the aim to promote SPIE activities.
10. During reporting period there were 6 Chapter meeting. The meetings are usually arranged last Thursday of the month (regular), additional meetings are arranged when needed.

11. Publications of Chapter members:

- A. I. Bilyi, **R. O. Bilyy**, and V. B. Getman. Method of determination of aerosol microparticles' size distribution by iteration process // **Proceedings of SPIE, Int.Soc.Opt.Eng**, 2006, 6303, 63030S
- **R.O. Bilyy**, A.I. Bilyi, V.B.Getman, Yu.Ya. Kit, **Ch.Ya. Mayor**, V.O. Antonyuk, R.S. Stoika. Some new approaches to the detection of programmed cell death // **Proceedings of SPIE, Int.Soc.Opt.Eng**, 2006, V. 6163-50., 61630J.
- R.S. Stoika, **R.O. Bilyy**., V.O. Antonyuk. Agglutination-based method for fast detection, isolation and quantification of apoptotic cells. // **PCT Patent Application**, 67789-368. 2006.
- **R. Bilyy**, **Ch. Mayor**, R. Stoika. Cell plasma membrane – a novel target for the detection of programmed cell death // IV Student Scientific Conference, Wroclaw University of Technology, May 22-24, 2006, Wroclaw, Poland
- A. Bilyi, O. Bordun, **I. Yarynovska**. Luminescent spectroscopy of dry tailings urine // **Proceedings of SPIE, Int.Soc.Opt.Eng** - 2006, vol. 6254. P. 270-276.
- **I. H. Yarynovska**, A. I. Bilyi Absorption spectra of sulfhemoglobin derivates of human blood // **Proceedings of SPIE, Int.Soc.Opt.Eng** – 2006, vol. 6094. P. 156-162.
- **O. Drobchak**, O. Bordun. Appearance of Intercellular Information Interaction on cultures of *E.Coli* and *B.Subtilis* / IV Student Scientific Conference, Wroclaw University of Technology, May 22-24, 2006, Wroclaw, Poland
- Bordun O.M., Kukharsky I.Yo., **Dmytruk V.V.** The centers of luminescence in ceramics $X_2Bi_6O_{11}$ (X=Pb,Sn) // XII International seminar on Physics and Chemistry of Solid. Book of Abstracts. Lviv. 28-31 May 2006. – P.45.
- Bordun O.M., Kukharsky I.Yo., Antonyuk V.G., **Dmytruk V.V.** Luminescence of bismuth and lead compounds of thin oxide films // 6th European Conference of Luminescent Detectors and Transformers of ionizing Radiation (LUMDETR) June 19-23, 2006. Lviv (Ukraine). Book of Abstracts. P. 10



During Chapter Meeting: Savaryn Victoria, Kobryn, Lesja, Rostyslav Bilyy, Levosyuk Lyuba, Yarynovska Ivanna (with SPIE Award Certificate), Partyka Maryan and Tsop Bogdan

IV Student Scientific Conference, Wroclaw University of Technology, May, 2006



Beautiful city of Wroclaw is located at Odra river



At the ancient part
of the city



During the meeting of SPIE Student
Chapters from Poland and Ukraine

Visit of Prof. Tuchin to Lviv

Near one of the
first city walls of
14th century



An autograph...



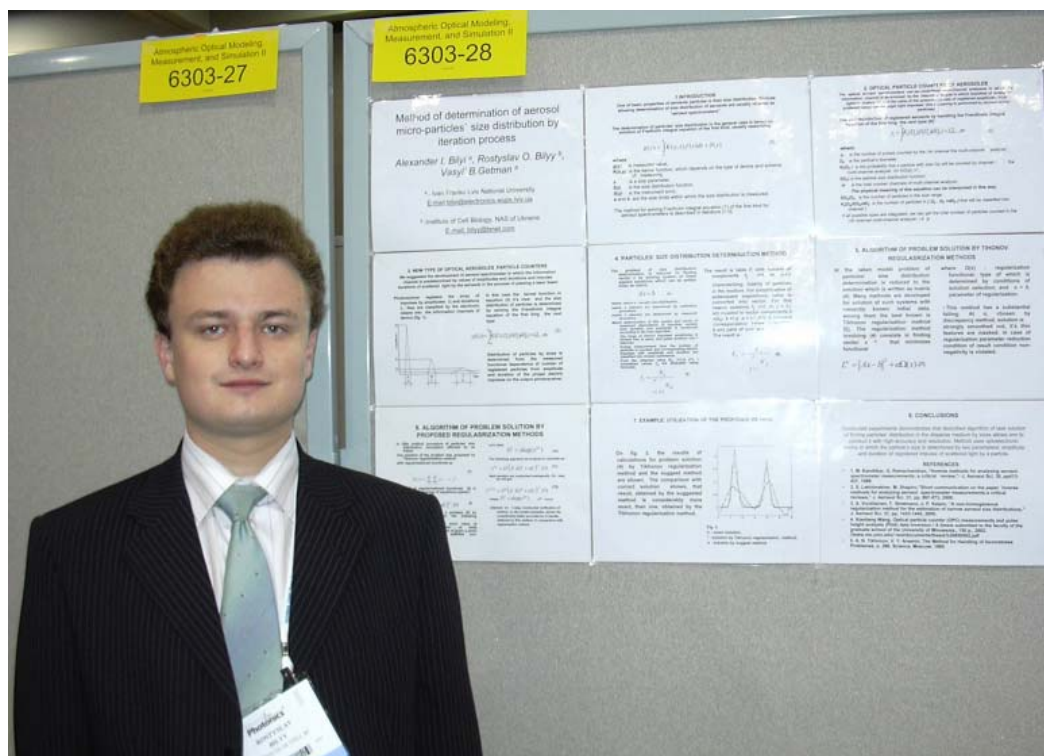
Chapter members during the Course



Dring the Lecture



Ceremony of awarding SPIE Scholarship: SPIE President Dr. Paul F. McManamon awards the Scholarship Certificate to Chapter's President Rostyslav Bilyy



During poster presentation

Financial information:

Beginning balance - \$0.

Funds obtained from SPIE - \$1100.

Funds expended: \$1100

Details:

	\$
AMD-based computer (main storage for electronic library)	850
Participation in IV th Student Scientific Conference in Wroclaw, 2 members	250
Total	1100

Ending balance - \$0.