



SPIE Student Chapter at Ivan Franko National University of Lviv



Student Chapter Report

May 2005-December 2005

Name of Chapter:

SPIE Student Chapter at Ivan Franko Lviv National University

Person Completing Form/Contact:

Rostyslav O. Bilyy, Chapter President

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Number of members: 20

Chapter Officers:

Rostyslav Bilyy – President - bilyi@litech.net

Serhiy Tabachyn - Vice-president - tserhiy2001@yahoo.com

Ivanna Yarynovska - Treasurer - ivanka_82@rambler.ru

Petro Bihun - Secretary - bihun@electronics.wups.lviv.ua

Chapter activities:

1. Establishing the Chapter – organizing a workplace and meeting place for Chapter students. Formation of some shared informational recourses, both electronic and printed. Organization of cooperation between students in the Chapter, etc.
2. Development of Chapter's web-site: <http://www.electronics.wups.lviv.ua:8102/stchapter>
Support of the site. (Due to some specific port-readdressing by our University, some firewalls can block the site; some SPIE firewalls do, we hope to solve this in future).
3. Organizing the visit (in cooperation with Institute for Condensed Matter Physics) of SPIE President, Prof. Malgorzata Kujawinska to Lviv. Meeting with SPIE President and SPIE delegation. A lecture of Prof. Kujawinska "Cooperation and Networking Opportunities through SPIE - The International Society of Optical Engineering". See details at the end of report.
4. Chapter President, Rostyslav Bilyy has presented an Invited Internet lecture at [Saratov Fall Meeting](#) (International School for Junior Scientists and Students on Optics, Laser Physics and Biophysics). The lecture is available here: <http://optics.sgu.ru/SFM/2005/internet/bilyy/> (~3Mb).
5. Chapter members participated in the "[Optics and High Technology Material Science SPO 2005](#)" in Kyiv, Ukraine.
6. Participation in the SPIE Annual Meeting and Optics and Photonics Conference - 2005 in San Diego. Presentation of the Chapter - leaflets describing the Chapter.
7. Meetings with the students of Ivan Franko Lviv National University, Lviv Polytechnic University and Lviv Medical University with the aim to promote SPIE activities (Sep 27). We expect at least 10 new members in 2006!
8. During reporting period there were 5 Chapter meeting.
9. Publications of Chapter members:
 - [R. Bilyy](#), Yu. Kit, U. Hellman, V. Tryndyak, V. Kaminskyy, R. Stoika. In vivo expression and characteristics of novel α -D-mannose-rich glycoprotein markers of apoptotic cells / Cell Biology International, 2005. V. 29(11). P. 920-928

- R.O. Bilyy, A.I. Bilyi, V.B.Getman, Yu.Ya. Kit, V.O.Antonyuk, R.S.Stoika, some new approaches to the detection of programmed cell death. / Saratov Fall Meeting, SFM'05, International School for Junior Scientists and Students on Optics, Laser Physics and Biophysics, September 27-30, 2005, Saratov, Russia. Internet Invited Lecture.
- R.O. Bilyy, Yu.Ya. Kit, U. Hellman, R.S. Stoika, Mannose-rich glycoproteins - novel early markers of apoptotic cells: *in vivo* characteristics. 40th Meeting of the Polish Biochemical Society. Lublin, Poland, 19-23.09.2005, Acta biochimica polonica: v. 52 Sup. 1, 2005, p. 128. Poster presentation.
- Bilyy R.O., Kit Yu.Ya., Antonyuk V.O., Stoika R.S. Characteristics of specific membrane receptors of apoptotic cells. 5th Parnas Conferene. Kyiv, Ukraine, 26-29.04.2005, The Ukrainian Biochemical Journal: V. 77 (2), 2005, p. 96. Poster presentation.
- Drobchak Z.D., Drobchak O.Z. Simple method of sound measurement / Scientific-methodological digest on problems of physics learning.-Drohobych: Kolo, 2005-p.20-21
- Drobchak O.Z., Drozd G.E. The elements of physical interaction model / Scientific-methodological digest on problems of physics learning.-Drohobych: Kolo, 2005-p.12-15
- Dmytruk V., Kotsan J. Luminescence of Pb₂Bi₆O₁₁ ceramics /Heureka 2005. optics and Spectroscopy, P. 41-42.
- Bilyi O.I, Bordun O.M., Yarynovska I.G. Luminescent spectroscopy of dry urine tailings. / The sevent international conference "Correlation Optics 2005", Chernivtsi, Ukraine. September 6-9 2005.
- Bilyi O.I, Yarynovska I.G. Optical spectra of sulfhemoglobin derivates in human blood. / 6 International young scientists conference "Optics & High Technology Material Science SPO 2005". Abstracts - Ukraine, 27- 30 october 2005. Kyiv. – P. 56.

Planned future activities:

1. In frames of Visiting Lecturer Program to organize a visit of [Prof. Tuchin](#) in May 2006. It is planned that Prof. Tuchin will read a lecture "Biophotonics studies in Saratov State University" and short course "Tissue Optics and Controlling of Tissue and Blood Optical Properties".
2. Establishing of Chapter Bulletin Board.
3. Promotion of SPIE activities among 1st and 2nd year students.

Prof. Malgorzata Kujawinska, SPIE President in 2005, visited our Chapter!

SPIE delegation of 2005 SPIE President, Prof. Malgorzata Kujawinska, Prof. Pawel Kujawinski, Prof. Pierre Chavel, and Prof. Natalia Golnik has visited an ancient city of Lviv during the trip to the Conference on Correlation optics in Chernivtci, Ukraine.



SPIE Delegation at Rynok Square - the heart of Lviv, most of buildings here were built in 15-17th centuries.



Main building of Ivan Franko Lviv National University - The oldest university in Ukraine, founded 1661





The SPIE delegation arrived to Lviv in Sunday, September 4, 2005. The shiny summer whether was perfect for a city tour. A city of Lviv was founded in 1256, and has a long history, so there are lots of interesting places to see.



During the second day of the visit Prof. Kujawska has an exalted lecture "Cooperation and Networking Opportunities through SPIE - The International Society of Optical Engineering".





The lecture took place in the Large Astronomical Auditorium at the faculty of physics. And the Auditorium was almost full of interested students. The lecture was in English and was translated by the President of Student Chapter - Rostyslav Bilyi into Ukrainian.

After the lecture Prof. Kujawinska visited the office of SPIE Student Chapter at Ivan Franko National University of Lviv, Ukraine. During this short time we students of the Chapter) described our main activities. Dean of the Faculty of Electronics and Chapter advisor - Dr. Alexander Bilyi described scientific work of the Department of Physical and Biomedical Electronics.



Financial information:

Beginning balance - \$0.

Funds obtained from SPIE - \$900.

Funds expended: \$835

Details:

	\$
Computer equipment:	
HDD Hitachi 160 gb	110
DVD-RW Drive LG	75
Printer Samsung 1710P	162
scanner Mustek 2448 CU Plus	68
Deveopment, hosting and support of Chapter's web-site	200
Participation in the conferences by Chapter members	200
Other expenses:	20
Total	835

Ending balance - \$65.