



SPIE Student Chapter

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

Student Chapter Report

June 2011-May 2012

Name of Chapter:

SPIE Student Chapter at Ivan Franko Lviv National University

Person Completing Form/Contact:

Oresta Vasyliv, Elected Chapter President (2011-2012)

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Number of members: 16 (during most of the year), currently - 14 students (due to the renewal period at the end of the year) + 1 Alumni.

Chapter Officers elected for the next academic year (May 2012-May 2013):

President: Oresta Vasyliv oresta.vasyliv@gmail.com

Vice President: Andrew Tomin amtomyn@gmail.com

Treasurer: Tanya Shkandina tanjusha89@ukr.net

Secretary: Natalia Korniy aliakorniy@mail.ru

Chapter Advisor: Dr. Alexander Bilyi bilyi@electronics.wups.lviv.ua

Chapter activities:

1. We have recruited 3 new members and increased the number of chapter members to 15 members at its top in April (currently have 14 student members and 1 alumni).
2. 2 Chapter members, Tanya Shkandina and Oresta Vasyliv, have applied for SPIE Scholarship in 2012, but unfortunately they were not successful in their applications.
3. Oresta Vasyliv, president of SPIE Ivan Franko National University of L'viv Chapter, received Officer Travel Grant in 2011. She visited Student Chapter Leadership Workshop and SPIE Optics + Photonics Conference during 20-25 August, 2011 at San Diego, CA, USA. She had a possibility to meet other Student Chapter Officers for networking and participation in educational and professional development activities. Oresta also has established new contacts for further Chapter development. She presented her scientific work at such sub-conferences of Optics + Photonics Conference as Solar Energy + Technology and Optical Engineering + Applications.
4. Chapter treasurer Tanya Shkandina has participated in Student Chapter Leadership Workshop 2012 during SPIE Photonics Europe in Brussels, Belgium, 15 - 19 April 2012 and has presented the achievements of our Chapter there.
5. Student members were involved in realization of SPIE Educational Grant, Project entitled "Summer school devoted to 150th Anniversary of liquid crystal discovery at Lviv University", which took part in August, 2011 in one of the student camps near Lviv. The summer school promoted the science among young people by 1) propagating the research of our countryman and the impact of liquid crystal on our life; 2) providing a demonstration of a self-made liquid-crystal thermometer (aka mood ring) 3) providing the basics of optics and principles of work microscopes with demonstration of commercially available slides of blood and malaria-infected blood;

- 4) providing basics of other common optical phenomena, used in everyday life; 5) all described activities were accompanied with the in-game-like presentation of principles of optics, scientific research to a pre-college students (14-16 years old).
6. In 2011 we celebrated an 150th anniversary of the discovery of Liquid crystals by J. Planer in Lviv University. Thus we have performed:
- ◆ A lecture by Chapter alumni R.Bilyy "Life and Scientific Adherents of Julius Planer" at Planer-Smoluchowski Soft Matter Workshop on Liquid Crystal Colloids, October 5-7, 2011, Lviv, Ukraine (<http://www.icmp.lviv.ua/pssm2011/>).
 - ◆ A set of demonstrations about liquid crystals discovery were presented for students of high schools. We had 2 presentations in September, 2011 and December, 2011. During demonstrations we also have prepared some small presentation about our Chapter.
7. We have organized the Student Workshop on Biomedical Research, where we have invited scientist from National Academy of Science of Ukraine and members of Ukrainian Society of Cell Biology. 4 chapter members have presented their first research data on microorganism for fuel cells, application of fluorescent microscopy for study of plasma membrane, novel methods for detection of neuraminidase activity, study of interaction of fluorescent bacteria with host cells. The workshop took place in Lviv National University, Faculty of Electronics at March 28, 2012.
8. We continued scientific collaboration with SPIE Student Chapter at Wroclaw University and Institute of Radiophysics and Electronics and have performed a set of joint experiments.
9. During reporting period there were 8 Chapter meeting. The meetings are usually arranged last Thursday of the month (regular), additional meetings are arranged when needed.

Financial information (for year 2011-2012):

Beginning balance - \$0.

Funds obtained from SPIE - \$950.

Funds expended: \$950.

Details:

	\$
collaborative event (Student Workshop on Biomedical Research)	250
Library subscriptions	250
Organization of Chapter meeting and lectures	180
Organization of presentation for school students	250
Other (including bank expenses)	20
Total	950



Oresta Vasyliv is presenting her impressions about O+P Conference



Presentation on liquid crystal discovery for school students



Chapter alumni Rostyslav Bilyy is presenting the life and scientific achievements of Prof. Julius Planer, the discoveries of liquid crystals at Planer-Smoluchowski Soft Matter Workshop on Liquid Crystal Colloids



During Summer school devoted to 150th Anniversary of liquid crystal discovery at Lviv University, August 2011



Tanya Shkandina at SPIE Photonics Europe in Brussels



Oresta Vasylyv at Student Chapter Leadership Workshop during SPIE Optics+Photonics 2011