



# SPIE Student Chapter Ivan Franko National University of Lviv

<http://ivanfrankolviv.osahost.org>

## Student Chapter Report

June 2015-May 2016

Name of Chapter:

**SPIE Student Chapter at Ivan Franko Lviv National University**

Person Completing Form/Contact:

Olexander Karmash, Elected President (2016-2017)

E-mail: [sashakarmash@gmail.com](mailto:sashakarmash@gmail.com)

### 1. Members and Officers:

Number of members: 10 (10 students + 0 Alumni)

### Chapter Officers elected for the next Academic year (May 2016-May 2017):

President: Olexander Karmash, [sashakarmash@gmail.com](mailto:sashakarmash@gmail.com)

Vice President: Vasyl Syrvatka, [vasyl.syrvatka@gmail.com](mailto:vasyl.syrvatka@gmail.com)

Treasurer: Anna Hordeichuk, [hordeichuk.a@gmail.com](mailto:hordeichuk.a@gmail.com)

Secretary: Maksym Kitsera [maximusslviv@gmail.com](mailto:maximusslviv@gmail.com)

Chapter Advisor: Dr. Alexander Bilyi, [bily2011@yandex.ru](mailto:bily2011@yandex.ru)

### 2. List of current Student Chapter Members:

**Total Student Members: 10**

<b>Name</b>	<b>Expires</b>
Daryna Buts	25 May 2017
Marta Chupil	25 May 2017
Vera Gunza	27 May 2017
Anna Hordeichuk	14 May 2017
Olexander Karmash	2 May 2017
Maksym Kitsera	11 February 2017
Iryna Matiukha	7 May 2017
Marta Savka	14 May 2017
Vasyl Syrvatka	29 March 2017
Daryna Zevako	25 May 2017

### 3. Chapter activities:

1. In frames of International Year of Light we have prepared a set of demonstrations for school students "Amazing Optics" (during Summer school in June 2015). Our aim was to increase the awareness of optics, light, photosynthesis and novel lighting techniques. We provide the basic education on properties of light, its energetic properties, LED, and related subjects. We studied chlorophylls, isolated them from plants grown under LEDs an incandescent light and then measured their optical properties and absorption spectra. Our target audience was school students and first-grade students. The outreach event was attended with more than 90 participants totally.

2. We perform out of class education for students demonstrating the amazing optical experiments on light properties and applications. This was done in Lviv Universities during Days of Science in November 2015 as a part of other demonstrations and also in Gymnasium of Novyj Rosdil, Lviv region, in frames of their invitation in October 2015. We had some basic optical presentations of microscopy, light diffraction, fluorescence, etc. The outreach event was attended with more than 250 participants totally (including all visitor of Days of Science event). Both mentioned activities were described and approved in our funding request.
3. During reporting period there were 6 Chapter meeting. The meetings are usually arranged last Thursday of the month (regular), additional meetings were arranged during “Amazing Optics” experiments.
4. Chapter members Mariam Kushnirevych and Ivan Bordun have participated in SPIE Optical Metrology 2015 and in Leadership Workshop.

4. Planned activities:

1. We plan to perform a set of presentation related to DIY Spectrometer with the aim to demonstrate the school student the beauty of light and the ease of dealing with it.
2. We plan to perform lectures devoted to self-realisation of students, namely about improvement of their CV, resume, creating digital profiles in Google Academy, Research Gate, etc; as well as improving their presentation skills..

5. Financial information (for year 2015-2016):

Beginning balance - \$0.

Funds obtained from SPIE - \$500.

Funds expended: \$500

Details:

	\$
Demonstration of amazing optics experiments to school students (14-16 y.o) (including demonstration materials, printouts, posters, etc)	260
Presentation of out of class demonstrations during Days of Science and in Gymnasium	140
Transportations	70
Bank expenses and office supplies	30
Total	500

Other sources: none

Non-monetary support: office space, bills and maintenance by University

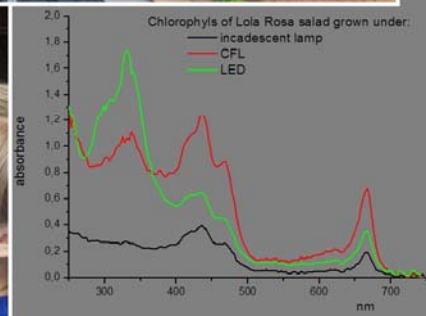
Ending balance - \$0.

**Year of Light in Lviv**  
outreach demonstrations performed by  
**Ivan Franko Lviv National University**  
OSA/SPIE Student Chapter



The first steps of school children in performing scientific experiments

Properties of light, basics of color, are followed by estimation of plant growth, isolation of chlorophylls, measuring absorption spectra on Nanodrop spectrophotometer and predicting the color of plant depending on light wavelengths



During Days of Science

