

Tel-Aviv University SPIE Student Chapter Annual Report July 2013-July 2014

General Information

Chapter faculty advisor's name:	Dr. Natan T. Shaked
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Chapter web site	https://www.facebook.com/SpieTauChapter
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Student Chapter Officers (for the duration of the report)

President	Name:	Idan Steinberg
	Email Address:	idanstei@gmail.com
	Member Number:	3239078
Vice President	Name:	Osnat Harbater
	Email Address:	Osnatsr@yahoo.com
	Member Number:	3532998
Treasurer	Name:	Reut Friedman
	Email Address:	reut.frd@gmail.com
	Member Number:	3509307
Secretary	Name:	Irena Frenklach
	Email Address:	irenaf@gmail.com
	Member Number:	3493615

Current Members / Membership Roster

Name	Expires
1. Jacob Ben-Yakar	26 July 2014
2. Omry Blum	15 July 2014
3. Itai Epstein	16 September 2014

4. Irena Frenklach	26 February 2015
5. Reut Friedman	17 March 2015
6. Haniel Gabai	17 January 2015
7. Pinhas Girshovitz	17 March 2015
8. Mor Habaza	15 July 2014
9. Osnat Harbater	5 March 2015
10. Alexander Lozovik	30 March 2015
11. Eran Maimon	14 February 2015
12. Darina Roitshtain	5 May 2015
13. Lihi Shiloh	12 October 2014
14. Idan Steinberg	21 November 2014
15. Yuval Yifat	8 December 2014
16. Jenny Zukerman	13 May 2015

Details of Chapter activities since last report

1. On October 3rd, 2013 we had our chapter and semester opening event.

After gathering and refreshments, Prof. Ze'ev Zalevsky lectured about high resolution photonic sensing, where he presented the physics behind the method and results achieved by his research group. After the lecture we had a poster competition, where 10 posters participated. The prizes were \$60 for the 1st place and \$40 for the 2nd place. The winning poster was titled "Nonlinear Optical Bioinspired Peptide Nanostructures", presented by Amir Handelman.





2. On the 17th of March, the chapter was gathered to celebrate Purim holiday. The first part of the event included traditional Purim refreshments and networking. Next, Dr. Moshe Ben-David, a senior R&D manger from Ariel Photonics, lectured about cutting edge, High power fiber based lasers for military applications. During the lecture, Dr. Ben-David also provided a unique insight into the world of the researcher in the industry.



3. On Tuesday, May 27th 2014, the Tel-Aviv University OSA student chapter, conducted its first joint event with the Tel Aviv University SPIE student chapter.

The event was about two hours long and started with networking around coffee and refreshments, then opening words from both SPIE and OSA student chapter

presidents, The event included an exciting 60 minutes talk from Dr. Alon Bahabad, a recently new staff member at the physical electronics department, on the following:

“Recent results from the Physical Optics Group in TAU - An overview of results from several research projects being conducted in the Physical Optics group. Among these - the use of super oscillations to “cheat” absorption in materials, coherent macroscopic control in extreme nonlinear optics, design of nano-antennas for nonlinear optics and solitons in linear media.”



4. On the 30th of June 2014 we had our summer opening event. This event included two parts:
- a) Elections for the SPIE student chapter officers. First we first introduced the new officer candidates and then we performed elections to the 4 officers. The elected officers are:
New President: Haniel Gabai
New Vice President: Idan Steinberg
New Treasurer: Lihi Shiloh
New Secretary: Itay Epstein
 - b) A fascinating lecture by Dr. Yael Roichman who talked about holographic optical tweezers (HOT). She first introduced the physical principle of HOT which use laser light to trap and manipulate colloidal particles suspended in liquid. She then described how they use HOTs to drive systems out of thermal equilibrium, to localize biological cells and to build devices.

Details of planned activities for the near future

On July 28, 2014 we have organized (in collaboration with Tel Aviv university center for nano-science and nano-technology) a special Workshop on Biomedical Optical Imaging and Laser Manipulations. Prof. Kishan Dholakia from University of St Andrews, UK will be a keynote speaker. In addition, more than ten researchers from six different universities in Israel will give lectures in this conference. We expect about a hundred researchers from both Israeli academia and optical industry will attend this meeting. We will have a poster competition, and

the prize will be a new tablet (Lenovo IdeaTab S6000), contributed by Rosh Electro-optics Israel. We have rented two fancy halls in the university. One hall will be for the lectures, and the second one - for the posters sessions. Posters will be presented there all day, starting from 9:00am, and especially during the social events. The coffee breaks will be in the same hall of the posters. This should give the poster presenters good exposure. On the 29th we will arrange for Prof. Kishan Dholakia a visit in the various optical laboratories of Tel Aviv university. Many students and staff member are really looking forward to meet him.

Financial information report

Funds raised for the duration of the report

1. We have received activity grant of 700 USD.
After commotions, 646.36 USD (2211.85 ILS) is the amount we have received to the chapter's bank account.
2. We have received the officer travel grant for the sum of 2500 USD for reimbursements + conference registration fee waiver. The grant was given to the officer Reut Friedman for her oral presentation "Reflective interferometric system combining low-coherence spectral-domain phase microscopy and wide field holography for characterization of thin samples" in SPIE Photonics West 2014.
Grant was shared with officers Idan Steinberg and Osnat Harbater who also presented their works in SPIE Photonics West 2014.
3. Visiting Lecturer Grant for the sum of 1500 USD for reimbursements for the visit of Professor Kishan Dholakia.

Total chapter funds raised 700.00 USD

We had no other funding sources then those listed above.

Expanses for the duration of the report

1. Refreshments for three chapter meetings: 679.13 ILS (198.46 USD)
2. Awards for opening event : 631.69 ILS (184.6 US\$)
3. Chapter promotional material (Ads, Logo etc) : 172 ILS (50.26 USD)
4. Banking fees: 61.2 ILS (17.88 USD)

Total expenses spent: 451.20 USD

All of the above were described in our funding request, except for the Banking fees expanses which were unknown at the time of the request.

Current chapter balance - 693.26 ILS (202.59 USD)

Planned Expanses in the near future

1. We have allocated a sum of 685.00 ILS (200.19 USD) for supporting the visit of professor Dholakia and the summer event planned with his participation.

Chapter balance after planned expanses - 8.26 ILS (2.37 USD)