



**ANNUAL REPORT**  
**2013-2014**

# I. SPIE CHAPTER MEMBERS

## - Our Officers:



**Tania Yoshimura (President)**  
tania.my@gmail.com



**Caetano Sabino (Vice-President)**  
caetanosabino@gmail.com



**Ana Carolina de Magalhaes (Treasurer)**  
anacmagalhaes@yahoo.com.br



**Elisabeth Yoshimura (Advisor)**  
e.yoshimura@dfn.if.usp.br

## - Our Chapter Members:

| Name                      | Expires     |
|---------------------------|-------------|
| Débora Aureliano          | 23 Jun 2015 |
| Cristine Calil Kores      | 3 Sep 2015  |
| Ana Carolina de Magalhaes | 23 Mar 2015 |
| Lucas de Pretto           | 7 Sep 2015  |
| Marília Gomes             | 24 Aug 2015 |
| Bruno Matheus             | 28 Jan 2015 |
| Caetano Padial Sabino     | 22 Mar 2015 |

| Name                   | Expires     |
|------------------------|-------------|
| Eric Oliveira Pereira  | 27 Aug 2015 |
| Marcelo Pires de Sousa | 18 Oct 2014 |
| Felipe Ramos           | 11 Jul 2015 |
| Fábio Sellera          | 21 Apr 2015 |
| Leticia Sicchieri      | 3 Sep 2015  |
| Camila Silva           | 7 Apr 2015  |
| Tania Yoshimura        | 20 Jun 2015 |

## **II. CHAPTER ACTIVITIES**

Our mission remains to educate students on optics and photonics so the Chapter's main activities are focused on promoting those topics.

Several chapter meetings took place at the University of São Paulo to organize our activities throughout the year, including:

- Student attendance at SPIE Photonics West and SPIE officer travel grant use;
- SPIE education outreach activities;
- New chapters in São Paulo;
- Chapter's socializing barbecue.

### **1. SPIE Photonics West + SPIE Officer Travel Grant**

Tania Mateus Yoshimura and Nathali Cordeiro Pinto went to SPIE Photonics West (San Francisco, CA) to present their authored papers: *"Treating metabolic syndrome's metaflammation with low level light therapy: preliminary results"*, and *"Is it possible to prevent morbidity on post cardiovascular surgery applying low level laser therapy?"* and *"Study's significance from arterial elasticity and variation in arterial blood pressure for normotensive and hypertensive patients applying pre and post lasertherapy: preliminary results"*. Besides the conference attendance, they were able to participate in the student activities that took place there. Nathali was awarded the officer travel grant.

### **2. SPIE education outreach activities**

Our chapter submitted an application for the SPIE Outreach Grant on May (2013). On August we were awarded with funds to start our project, aimed to impact students and increase optics and photonics awareness. We primarily intend to introduce the knowledge about the physical foundations of optics and photonics to young public schools students in the city of Sao Paulo, Brazil, trough experiments and short presentations boosting their learning by instigating the interest and curiosity on basic and techno-scientific subjects. Four public schools, totalizing about 1000 young students, have already shown interest on our project.

Besides that, our group joined a task force to participate on *"Olimpíada USP do conhecimento"* (rough translation: University of Sao Paulo's Knowledge Olympics). We were also congratulated with funds to put a similar project into practice, with collaboration from other USP students and professors.

We still have funds to promote other projects, and now we have new chapters nearby to help with human resources and ideas to make more impactful interventions.

### **3. New chapters in state of São Paulo**

Our chapter was contacted by students from Unicamp (University of Campinas, Campinas, SP) and Uninove (University 9 of July, São Paulo, SP) interested in forming chapters on their universities.

Tania and Caetano went to their facilities, and spoke about SPIE and our chapter activities. This way, our chapter could help solve some doubts they had, so they could start the process to found their chapters. Unicamp was admitted on May, and Uninove's chapter was established on October.

### III. FINANCIAL INFORMATION

Funds received from SPIE were converted into Brazilian Reais (BRL) according to the official currency exchange rate at the date. Our main expenses were directed to our outreach activities.

| <b>Date (mm/yyyy)</b>                  | <b>Description</b>                        | <b>(BRL)</b> |
|--|---|--------------|
| <b>01/2014</b>                         | Initial                                   | 502.67       |
|  | Outreach Grant + Activity Grant (USD)     | 2,678.99     |
|  | Exchange rate (USD/BRL)                   | 2,0852       |
| <b>06/2014</b>                         | Outreach Grant (BRL)                      | 5,586.23     |
|  | Tax fee (BRL)                             | -140.79      |
|  | Net Outreach Grant & Activity Grant (BRL) | 5,445.44     |
| <b>07/2014</b>                         | Total (BRL)                               | 5,949.11     |
| <b>01/2014</b><br>to<br><b>09/2014</b> | Outreach expenses (BRL)                   | -739.27      |
| <b>12/2014</b>                         | Residual (BRL)                            | 5,208.84     |

Our chapter received the Outreach Grant (2,614.00 USD) and the Activity Grant (900.00 USD) on the same transaction. Unfortunately, Brazilian regulations for overboard financial transactions have changed at the beginning of 2014. Because of that, the first attempt on receiving both grants failed, and the money needed to be returned to the payment source. USD 835.01 from this amount were lost due to bank fees charged both from Brazil and United States.

We will continue our outreach activities in the following year, together with students from Unicamp.

### IV. FURTHER STEPS

During the next year our chapter would be mainly focused on the outreach activities.

The Chapter's schedule also includes:

- Elections;
- SPIE Photonics West officer attendance;
- Outreach activities;
- Connection with Latin American and Brazilian Chapters.