

SPIE



Student Chapter

University of São Paulo

ANNUAL REPORT

2011-2012

I. SPIE MEMBERS

- Chapter Officers

PRESIDENT	Marcelo Pires de Sousa	marcelo_slcufc@yahoo.com.br
VICE-PRESIDENT	Caetano Sabino	caetanosabino@gmail.com
SECRETARY	Nathali Pinto	nathicordeiro@gmail.com
TREASURER	Ana Carolina de Magalhães	anamagalhaes@usp.br

- Current Members

Andrea Calmon N. Gama

Ana Carolina de Magalhães

Antônio José Santos

Caetano Sabino

Felipe Ramos

Katia Urata

Lilian Moriyama (Alumni)

Marcelo Pires de Sousa

Marcia Saito

Maria Armas Alvarado

Nathali Pinto

Sebastião Pratavieira

Tania Yoshimura

Vilma Santos

II. CHAPTER ACTIVITIES

Since its introduction on 26 August 2011, our chapter performed 6 meetings. The main aim of these meetings was to discuss issues regarding group's activities and organize meetings within the University of São Paulo (USP).

We have also made a seminar at the University to disclosure the group's goal. Futhermore, we have expanded the group since its inception. We are already in total 13 members and 1 Alumni.

We promoted a free postgraduated mini-course during 2 whole days, two lectures, a workshop and a seminar, which we brought a Professor from Boston,USA. For this end, we used the Visiting Lecturer Grant. To posters print and the snacks we used resources from Activity Grant. We communicated fully in all postgraduated courses about the event in order to promote the interest and involvement of our University into the optics and photonics world.

1. SPIE OFFICER TRAVEL GRANT

The SPIE Officer Travel Grant for 2012 was awarded to Marcelo Pires de Sousa from our chapter. He presented about Laser scattering by transcranial rat brain illumination at SPIE Photonics Europe (Brussels,Belgium). It was an incredible learning experience where it was possible to share with different views and allowed to interact with the other SPIE members.

2. VISITING LECTURER

On July 2, 2012, we had a mini-course and a lecture in the evening. This event was consecrated with the eminent presence of Dr. Michael R. Hamblin, PhD from Harvard Medical School, MIT - Division of Health Sciences and Technology and Wellman Center for Photomedicine at Massachusetts General Hospital Researcher. The title of his talk was: Hot Topics and New Perspectives

on Therapeutical Photonics – Part I. The meeting focused primarily in recent discoveries about action mechanisms and applications of Photodynamic Therapy (PDT) using new photosensitizers. It included themes such as immune responses induced by PDT in metastatic cancer and systemic infections.

A free snack was provided to the students in the morning and afternoon.



Dr. Hamblin's talk on July 2

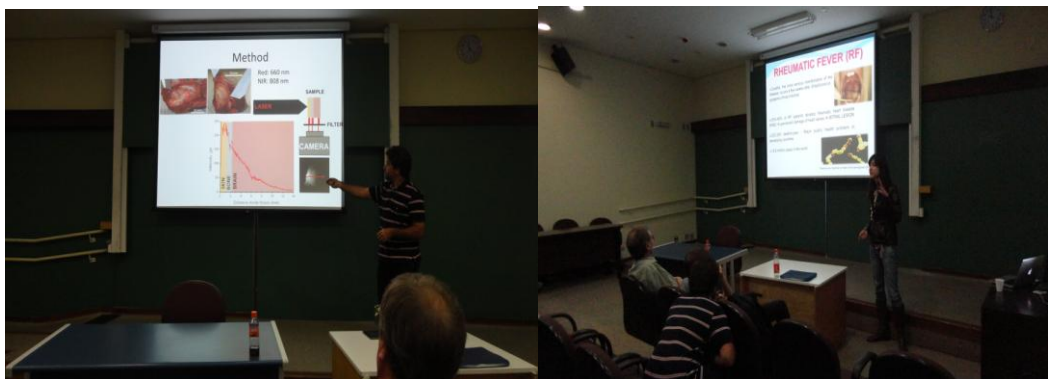
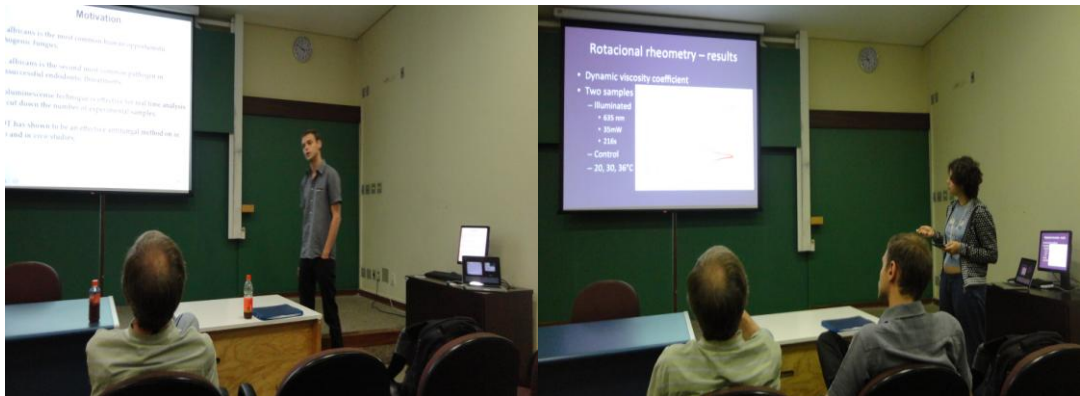
On July 3, 2012, the mini-course continued by the presence of Dr. Hamblin. The title of his talk was: Hot Topics and New Perspectives on Therapeutical Photonics - Part II. The course mentioned recent discoveries about action mechanisms and applications of Low Level Laser Therapy (LLLT).

A free snack was provided to the students in the morning and afternoon.



Dr. Hamblin's talk on July 3

On July 4, 2012, we had a workshop with SPIE member students and Dr. Hamblin. It was performed research presentations from USP grad students working in optics/photonics, and featured six 20-minute student presentations at the meeting. We greatly appreciated the opportunity that Dr. Hamblin gave us with your suggestions about our projects.





Some pictures of our workshop on July 4

On July 6, 2012 Dr. Hamblin provided a seminar for the *Group of Laser in Health* about his last studies in photonics at Harvard University. The lecture lasted one and a half hour.



***Group of Laser in Health* with Dr.Hamblin**

We plan on having another optic and summer school event in the next year. Besides, we aim to further increase SPIE members.

III. FINANCIAL INFORMATION

We received funds from SPIE and exchanged to Reais (R\$) at the official closing rate of the currency at that date. For this banking, the system charges a small fee, as you can see below.

DATE	Initial amount (R\$)	Initial conversion rate	Fee (R\$)
16/06/12	1003,85	2,01	44,43
Actual Amount (R\$)	959,42		

We intend to use the funds before the end of this year. We have planned to do a study visit to USP-São Carlos (University of São Paulo-SP,Brazil).