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Advisor:
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LIST OF MEMBERS OF THE SPIE
STUDENT CHAPTER AT INAOE

1.- María de la Paz Hernández Garay
2.- Rosario Guadalupe Porras Aguilar
3.- Sandra Eloísa Balderas Mata
4.- María Luisa Cruz López
5.- Mario Enrique López Medina
6.- Adalberto Alejo Molina
7.- Ibis Ricárdez Vargas
8.- Luis Ignacio Olivos Pérez
9.- Miguel Alcaraz Rivera
10.- José Luis Avilés Urbiola
11.- Gerardo Díaz González
12.- Pedro Moreno Zarate
13.- José Adán Hernández Nolasco
14.- Helen Janeth Zúñiga Osorio
15.- Edmundo Rodríguez Vázquez
16.- Eber Enrique Orozco Guillen
17.- Juan Carlos Juárez Morales
18.- Óscar Javier Zapata Nava
19.- Melquíades García Soto
20.- Francisco Méndez Martínez
21.- María de la Luz García Cruz
22.- Daniel Rojano Guido
23.- Alberto Sánchez Castillo
24.- Jaime Sánchez Peredes
25.- Luis Rodríguez Castillo
26.- Brasilia Cabrera Pérez
27.- Juan Carlos Valdiviezo Navarro
28.- Miguel Velázquez de la Rosa Becerra
29.- Iván Hernández Romano
30.- Miguel Bello
31.- Daniel López Cortés
32.- Anmi García Arellano
33.- Joel Herrera
34.- Ileana Guizar Iturbide
35.- Reyle Mar Sarao
36.- Jaime Gutierrez Gutierrez
37.- Zulema Navarrete Meza
38.- Mauro Sánchez Sánchez

Introduction

We had a great year in our Student Chapter, full of activities both academic and social. This has created a very enthusiastic atmosphere among the Chapter members. At the beginning we were 17 members and nowadays our Chapter has grown up to 38 members.

In our first report we set the goals for our future activities, namely

1. - Increase the number of workshops (holography and photography) and talks
2. – Participation in SPIE conferences
3. – Invite a lecturer from the Beckman’s Laser Institute
4. – The construction of the chapter web page
5. – The design of a logo for the Chapter
6. – Continue with the movie projections

In resume, we did implement the photography workshop and we continue with the informal talks. This year some SPIE Student Chapter members went and will go to some SPIE conferences and workshops, or SPIE-OSA Conferences. Among them are; Photonics West, Astronomical Telescopes, International Optical Design Conference, International Workshop on Information Optics, and Optics & Photonics. We invited a lecturer from the Beckman’s Laser Institute but he couldn’t come because of his hectic schedule. But, instead of him we invited Dr. Bahaa Saleh from the University of Boston. Nowadays, we have a web page and also we have a logo. We had continued with the film projections, we had projected more than 10 movies from January to May.

Chapter Activities

1. – Ph.D. Bahaa E. A. Saleh’s visit

On May 22, we had the visit of Prof. Saleh, who gave us a seminar called, “Recent Advances in Nonlinear and Quantum Imaging”. Which was divided into two parts; the first one was about the recent research in nonlinear imaging and microscopy, and in the second
he talked about quantum imaging including conventional and quantum coherence tomography, in which his lab is pioneer.

He also gathers with some Chapter students, and he went into a tour trip around some optics labs.

2. – Workshops

a) Science workshop for High school teachers ("Taller de Ciencia para Profes"). We took part of this event thanks to an invitation from Dr. Raul Mujica, who was in charge of this activity. It was focused on, how to promote Science among teenagers as well as among kids. The Chapter members who participate gave a workshop on black & white photography with a pinhole camera. Also, some students gave a lab talk in which they explain Image formation with simple optical elements. They did an excellent work, and also learn some tips from the high school teachers. Due to this workshop, some of us thought that it was a great idea to have an optics kit of our own. So, we decided to take this as a new Chapter activity.
b) Math fair (“Feria de las Matemáticas”)
Each year, the “Instituto Universitario de Puebla A.C.”, organize the Math fair, at Atlixco, Pue.; in which every year, INAOE is invited. This year, the INAOE OSA-SPIE Student Chapter was chosen to represent our Institute. We participate with different experimental demonstrations of basic optics (Geometric optics, Dispersion and Color decomposition, Polarization, and Optics illusions and Stereoscopic images). The activities in the fair were very fun and dynamical. There were 1000 people who attended it, among them; the main actors were the children. But, we have all kind of public, from high school teachers to the kids’ parents. We enjoyed being there.
3. - Scientific informal talks

a) Visits of undergraduate students from Universities all over the country to some optics labs to show some more advanced optical setups. Most of them are about the thesis theme of some Chapter students.

Visit to the solar telescope.

b) Lectures on optics issues.
c) Simple optics experiments such as ray trace, image formation, polarization, optics illusions, etc.

Some of the children were visiting the laboratories.

4. - Chapter’s party
On April we had a BBQ, where we could interact in an informal way with the whole Chapter. Also, we discussed some new ideas for Chapter activities.

From the left to the right, Mario, María de la Paz, Eber, Sandra, Luis, Rosario, Maria Luisa, Ibis and Adalberto. They are or were officials of the SPIE or OSA Chapters at INAOE and members of the SPIE chapter.

Members of the SPIE chapter enjoying the BBQ.

5. - Weekly film projection
You can check them out in our web page. We have the titles and the link of the synopsis of each of them.

6. – The Chapter Logo

7. - The construction of the chapter web page (http://www-optica.inaoep.mx/~spiechap/)

8. – Invitation to Dr. María Luisa Calvo
We had invited Dr. Calvo to visit our Chapter. She will be able to come on February next year.
9. - Grants
In this year Sandra E. Balderas, President of the Chapter, apply to the SPIE officer travel grant. She will be representing our Chapter in the SPIE's 51st Annual Meeting., in company of Maria de la Paz Hernandez (Vice-president).

**Future Activities**

1. - Increase the number of workshops (holography). We already have the kaleidoscope and the photography workshops.
2. – Give informal talks about optics and also tours to the optics labs for students from kindergarten to undergraduate.
3. - Participation in SPIE conferences.
4. - Short course of Dr. Calvo on February 2007.
5. – Participation with a workshop in the International Book Fair for kids and young people (Feria Internacional del Libro Infantil y Juvenil)
4. – The creation of a magazine to promote Science, this Project will be supported by SPIE and OSA. The name of the magazine will be, "Light Hunters".
5. – Optical kits
6. - Continue with the cultural film projections.
On September 2005 our chapter was officially accepted as a Student Chapter of SPIE. In this table we show the financial movements from this date until May 2006. All quantities are given in American Dollars.

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