Annual report

Instituto Nacional de Astrofísica, Óptica y Electrónica Student Chapter

August 2013-2014
Officer members

Dilia Aguirre Olivas
President

Jesús Emmanuel Gómez Correa
Vice-President

Alexis Vazquez Villa
Treasurer

Luis Gabriel Valdivieso
Secretary

Rubén Ramos García
Advisor
Introduction

Through this report we describe the Chapter activities. We divide the report in five parts, indoor activities, outdoor activities, joining activities, future activities and financial report. The report include some pictures and a brief description of the activities.
We include a summary with an Activity report and a financial report that present the information in numbers. These show how we used the resources given by SPIE in the period August 2013 - August 2014.
Indoor activities

This activities are realized within INAOE, some of them are organized by the chapter and another by INAOE and they invited us to participate.

**Tardes de Café**

In those meetings students of our institute presented their research or an interesting topic related to optics and photonics to other students which belong to the optics program. We organized twice a month a coffee evening and every time it was possible to drink some coffee and to eat muffins and cookies. After the presentation from the students questions and a discussion followed.

*Jesus and Fabian’s talk about their research.*

**Event:** Tardes de café  
**Place:** INAOE´s facilities  
**Aim:** To increase information exchange between students, and to learn in an informal way about new research done at INAOE.  
**Attendents:** Oriented to all students at INAOE. Mostly Optic students attended.  
**Lecturers:** Ph.D. and M.D. students members of the Chapter.  
**Organizer:** SPIE Student Chapter  
**Date:** September 2013- July 2014
Vigésima Semana Nacional de Ciencia y Tecnología

This is a national event where important educational institutions participate like INAOE and therefore the chapter is included. The goal is arouse the interest in science and technology in children and young.

Omar, Sergio, Susana and Alexis showing experiments to elementary and high school students.

**Event:** Workshop and Talks.  
**Place:** INAOE’s facilities.  
**Attendants:** Oriented to elementary and high school audience.  
**Lecturers:** Ph.D. and M.D. students members of the Chapter.  
**Organizer:** INAOE  
**Date:** October 2013

JORNADA DE PUERTAS ABIERTAS

It is a one day event organized by INAOE in which, the institute open their doors to general public and they meet the laboratories, listen research talks and do experiments.

Students of elementary school made and used a spectrograph.

**Event:** Workshop and Talks.  
**Place:** INAOE’s facilities.  
**Attendants:** Oriented to all ages audience.  
**Lecturers:** Ph.D. and M.D. students members of the Chapter.  
**Organizer:** INAOE  
**Date:** November 2013
CONCURSO DE FOTOGRAFÍA

Spie-Chapter organized the first photography contest at INAOE. It was oriented to all students from the institute, the theme was “photograph your physical phenomena”. We had a lot of participation and we gave awards to the three best photographs.

Event: Photography contest  
Place: INAOE’s facilities  
Attendants: Students from INAOE  
Lecturers: Ph.D. students members of the Chapter.  
Organizer: Ph.D. and M.D. students members of the Chapter.  
Date: December 2013

FILEC (Feria Internacional de la Lectura)

This is a lecture fair which motto was “Science and literature at Tonantzintla”, in this event people enjoyed from science workshops, storytellers, actors and some activities related to science and literature.

Event: Workshop  
Place: INAOE  
Attendants: All ages participants.
**Lecturers:** Ph.D. students members of the Chapter.

**Organizer:** INAOE, Consejo Puebla de Lectura, Consejo Nacional para la Cultura y las Artes.

**Date:** February 13-16, 2013.

**REUNIÓN DE ASIGNACIÓN DE ACTIVIDADES (28 marzo 2014)**

**Event:** Workshop

**Place:** Centro Cultural Casa de la Magnolia

**Aim:** Teaching the topic of polarization of light

**Attendents:** Kids (6 - 15 years old)

**Lecturers:** Ph.D. students members of the Chapter.

**Organizer:** INAOE, CPL and Foundation ¿Sabías que?

**Date:** November 23, 2013, April 21st, June 28th, 2014

**TALLER DE CIENCIA PARA JÓVENES (15 julio)**

**Event:** Workshop

**Place:** Centro Cultural Casa de la Magnolia

**Aim:** Teaching the topic of polarization of light

**Attendents:** Kids (6 - 15 years old)

**Lecturers:** Ph.D. students members of the Chapter.

**Organizer:** INAOE, CPL and Foundation ¿Sabías que?

**Date:** November 23, 2013, April 21st, June 28th, 2014

**TALLER DE CIENCIA PARA PROFES (22 julio)**

**Event:** Workshop

**Place:** Centro Cultural Casa de la Magnolia

**Aim:** Teaching the topic of polarization of light

**Attendents:** Kids (6 - 15 years old)

**Lecturers:** Ph.D. students members of the Chapter.

**Organizer:** INAOE, CPL and Foundation ¿Sabías que?

**Date:** November 23, 2013, April 21st, June 28th, 2014
Outdoor activities

We have heeded the call of various institutions asking us give workshops, lectures and demonstrations of experiments. We carried our outreach activities to schools and cultural centers belonging to other cities.

- Baños de Ciencia (November 23, 2013; April 21st, June 28th, 2014)
- Science fairs:
  - Feria de Matemáticas (March 14th)
  - (Instituto Esqueda) (March 14th)
  - Un encuentro con la ciencia (March 27th)
- Science Week (May 13rd)

Baños de ciencia

Baños de ciencia is co-organized by the Instituto Nacional de Astrofísica, Óptica y Electrónica (INAOE), the Puebla Reading Council AC (CPL) and the Foundation ¿Sabías que?. It aims to popularize science among children in rural communities and urban neighborhoods with little or no access to scientific dissemination activities.

Our student chapter members have participated in these events giving talks and workshops.

Q & A session during the workshop by Karla

**Event:** Workshop  
**Place:** Centro Cultural Casa de la Magnolia  
**Aim:** Teaching the topic of polarization of light
Feria de Matemáticas

These are scientific events to promote and disseminate knowledge and serve as support for teaching to motivate better learning of science.

Guillermo, Gabriel and Dilia are showing experiments to audiences of all ages.

Event: Feria de Matemáticas
Place: Sports area "La Carolina", Atlixco, Puebla
Aim: Show examples of the behavior of light.
Attendants: People of all ages
Lecturers: Ph.D. students members of the Chapter.
Organizer: University Institute of Puebla AC (IUPAC)
Date: March 14th
Joint activities

A very important part of the chapters is the relationship with the other chapters around us, then we did some activities in order to reach this purpose.

**National student chapters meeting**

A students chapters meeting was organized by the Univ. de Guadalajara Chapter, and one of our officers members went to this meeting, the purpose of this meeting was to know the others chapters activities, and also discuss about the organization of a “National Coffee Science” event, the possibility of organize a FOCUS conference and ask some ideas for activities to do in the International Year of Light.

**Visit of Univ. de Guadalajara Chapter to INAOE**

We had the visit of the Univ. de Guadalajara Chapter and in our institute. In the visit they had the opportunity to know our activities. Also, we organized a “National Coffee Science” event our invited speaker was the Ph. D. Alejandro Cornejo Rodríguez.
**Future activities**

We have been planned some activities for the near future like:

- The second photography contest at INAOE (in December).
- Recruiting new members (in mid-October).
- Having another Chapter meeting.

**Financial report**

We divided our report in three parts: Indoor Outreach activities, Outdoor Outreach activities and Joint activities. We used most of the Grant for Outdoor Outreach activities. Our main goal was to give talks and workshops about Optics and Photonics and to let more students know what SPIE is about.

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<th>Incoming</th>
<th>Outgoing</th>
<th>Balance</th>
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