# Annual Report 2010-2011

**Universidad de Guadalajara SPIE Student Chapter**

## 1. Elected officers

### (2010-2011)

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Email Address</th>
<th>Member Number</th>
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<tr>
<td>President</td>
<td>Jorge Sánchez Preciado</td>
<td><a href="mailto:jojoytelas@gmail.com">jojoytelas@gmail.com</a></td>
<td>03236381</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Hugo César Beltrán Gómez</td>
<td><a href="mailto:hugo_hotdog@hotmail.com">hugo_hotdog@hotmail.com</a></td>
<td>03290589</td>
</tr>
<tr>
<td>Vice-President</td>
<td>Jose Ricardo Avelar Rivas</td>
<td><a href="mailto:jravelar@hotmail.es">jravelar@hotmail.es</a></td>
<td>03322842</td>
</tr>
<tr>
<td>Secretary</td>
<td>Abril Alvarez García</td>
<td><a href="mailto:ag_abril@hotmail.com">ag_abril@hotmail.com</a></td>
<td>3333209</td>
</tr>
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</table>

### (2011-2012)

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<th>Name</th>
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<th>Member Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Jose Ricardo Avelar Rivas</td>
<td><a href="mailto:jravelar@hotmail.es">jravelar@hotmail.es</a></td>
<td>03322842</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Cesar Ulises Gutierrez Ramirez</td>
<td><a href="mailto:fire15_ulises@hotmail.com">fire15_ulises@hotmail.com</a></td>
<td>3373637</td>
</tr>
<tr>
<td>Vice-President</td>
<td>Abril Alvarez García</td>
<td><a href="mailto:ag_abril@hotmail.com">ag_abril@hotmail.com</a></td>
<td>3333209</td>
</tr>
<tr>
<td>Secretary</td>
<td>Jorge Armando Ramirez Casillas</td>
<td><a href="mailto:buffon5115@hotmail.com">buffon5115@hotmail.com</a></td>
<td>3376429</td>
</tr>
</tbody>
</table>
## 2. Current Student Chapter Members.

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<tr>
<td>1. Juan Pablo Aguayo Adame</td>
<td>1. Anuar Benjamin Beltran Gonzalez</td>
</tr>
<tr>
<td>2. Jorge Sánchez Preciado</td>
<td>2. Jorge Sánchez Preciado</td>
</tr>
<tr>
<td>3. Hector Torres Ortega</td>
<td>3. Hugo Cesar Beltran Gomez</td>
</tr>
<tr>
<td>4. Rubén Estrada Marmolejo</td>
<td>4. Ruben Estrada Marmolejo</td>
</tr>
<tr>
<td>5. Hugo César Beltrán Gómez</td>
<td>5. Hector Hugo Torres Ortega</td>
</tr>
<tr>
<td>7. Lina María Aguilar Lobo</td>
<td>7. Cesar Ulises Gutierrez Ramirez</td>
</tr>
<tr>
<td>10. Jose Ricardo Avelar Rivas</td>
<td>10. Ricardo Avelar Rivas</td>
</tr>
<tr>
<td>14. María Fernanda Villegas Huízar</td>
<td></td>
</tr>
</tbody>
</table>
3. Details of Chapter activities since last report.

Science workshop for kids

Winter

January 31, 2011
Attendants: about 40

12 year-old kids had the chance to play and experiment with physics, optics and electronics during the first workshop for kids of the year by the student chapter of the Universidad de Guadalajara.

Polarization, optical fibers, reflection, refraction, magnification and decomposition of light were some of the topics explained in the optics laboratory.

As part of the activities of the chapter for this workshop, kids could play with the two most used optical tools in history: a telescope and a microscope, being the microscope the favorite since it was used to observe at detail some bugs used in the explanation.
Observing an electromagnetic effect in the physics lab.

Playing with a gyroscope

A little contest to earn some of the materials used in the workshop
Summer
June 16, 2011
Attendants: about 50

In the second workshop for kids, we decided to involve the kids in the creation of some toys. Students from 10 to 12 year-old built their own kaleidoscopes using some mirrors and several colored materials to obtain some weird and funny images.

The workshop had the usual workshops of optics and physics, a tour around the campus and visits to the electronics, robotics, chemistry and communications laboratories.

As in the first workshop, we made a quick contest at the end and gave to the kids some of the material that was used in the workshop.

Kids using a couple of polarizers

Building kaleidoscopes

Having fun with kaleidoscopes
On 2010, the department of electronics of the Universidad de Guadalajara created the DIVEC FEST. An event organized by students for students. All week long lectures from several Universities of Mexico gave speaks about electronics, biomedical engineering, development of software among other topics. There were technical workshops, conferences, tournaments of chess and videogames.

For this event the SPIE Student Chapter participated setting up a stand showing the activities the chapter does as a way to encourage bachelor students to join the chapter.

The stand had two main attractions: some of the toys we use in the workshop for kids such as the virtual image creator, Moire patterns and the gyroscope. On the other hand, we present for the first time in the campus the Khet board, that result to be the more interesting feature of the entire event.

The success of the stand from the SPIE Student Chapter was recognized for the organizers since it was the main non-technical feature of the event.
DIVEC FEST 2011
May 17-20, 2011

For the second edition of the DIVEC FEST the SPIE Student Chapter came back with its stand, having a new opportunity to show some of their activities.

Just like the last year the stand caught everybody attention thanks to the khet game and some of the toys used with kids.
KHET tournament
October 1, 2010

After the amazing and unexpected reception given to the Khet game in the DIVEC FEST, we decided to organize the first tournament of the laser game at the Universidad de Guadalajara.

With the participation of 16 enthusiastic players, the tournament resulted into a complete success. Unfortunately, as on every contest, there were only one winner, Oscar Miguel Vergara López defeated everyone to become into the first champion.

We appreciate the participation of all the players and look-forward for the next tournament.
The final match

The champion showing the award for the first place
For our visiting lecturer program we decided to invite Dr. Jean Luc Doumont. A worldwide recognized trainer in the effective communication, Dr. Doumont traveled to Guadalajara to offer a talk and a short course.

**Talk: “Making the most of your presentation”**

Attendants: 30

Dr. Doumont gave a speech of how can we obtain the maximum attention from the audience for an oral presentation. The talk of about 45 minutes, explain some common mistakes people do in their presentations or on the slides, obstructing the understanding of the message they are trying to express.
Short course: “Structuring your scientific paper”
Attendants: 25

On the afternoon, Dr. Doumont offered the short course “Structuring your scientific paper”. The course, mostly attended by master candidates and researchers, last about 2 hours, during which Dr. Jean-luc explain the main parts of a scientific paper and how can they be organized, being easier for the readers to follow the idea of the research.
Dr. Jean-luc Doumont had the chance to taste one of the traditional dishes from the region, “carne en su jugo”. During the meal, Dr. Doumont shared with the SPIE Student Chapter members his experience as a trainer, having a great time in the city of Guadalajara. As a gift, he received a T-shirt from the Student Chapter and since we visit the land of tequila, he also received a bottle of this Mexican drink.

Official photo of the SPIE Student Chapter from the Universidad de Guadalajara with Dr. Jean-luc Doumont.

Dr. Doumont showing the presents from the Student Chapter thanking the honor of his visit
National Events

RAO
September 6-10, 2010
Puebla, Puebla

Our chapter members, Juan P. Aguayo and Irma N. Angulo, worked on a research project that was presented in the XIII Reunión Anual de Óptica (RAO). This Mexican conference took place at the city of Puebla, Puebla.

During this conference our chapter members had the chance to talk with the SPIE Student Chapter from INAOE, about possible activities involving both chapters.

First SPIE-OSA Mexican Student Chapters Meeting
September 9-11, 2010
Leon, Guanajuato

For the first time in our country, the SPIE/OSA Student Chapters from CIO, Universidad de Guadalajara and INAOE organized a Mexican Student Chapter meeting, in order to improve our activities, share ideas and establish a student network.

Having the participation of more than 40 students from 5 different chapters this meeting had several activities such as a meeting for chapter officers, 5 technical workshops by CIO professors, a student poster session, a tour through the CIO facilities and cultural and sport activities. As a guest of honor, the CIO invited Dr. Mitsuo Takeda as a visiting lecturer for this special event.

During the meeting for chapter officers, there was an agreement to institute this event as an annual meeting, being the INAOE chapter the following to organize 2011 event as a previous meeting to the ICO 2011 to be held on the city of Puebla.
Official photo for 2010 SPIE/OSA Mexican Student Chapters Meeting

During the talk of Dr. Takeda

The Universidad de Guadalajara Student Chapter with Dr. Mitsuo Takeda

Student Poster session

Visiting CIO labs
The final day of the event the SPIE Student chapter from the Universidad de Guadalajara decided to make a trip to the historic city of Guanajuato as an opportunity for the members of the chapter to meet each other.
International events

SPIE Optics + Photonics 2010
Student Chapter Leadership Workshop
July 31 - August 5, 2010
San Diego, California, USA

For the SPIE Optics and Photonics 2010, 4 of our members attended to the Student Chapter Leadership Workshop, having the chance to expand their network meeting students from all over the world, improving their leader skills with the talk of Alaina Levine and the rest of the activities.

This year took place the first Olympics Outreach, were chapters had a chance to present some of the activities they use with kids. The chapter from INAOE, Mexico won the gold medal thanks to the diversity and simplicity of their activities. Our members played for the first time the Khet game, bringing some board to our university, game that had a great success among our students.

For the Student Chapter Exhibition Mixer, our members presented a poster showing the activities done by our chapter.
On 2011, our chapter officers attended to the SPIE Optics and photonics at San Diego, California. They participated in the SCLW, meeting students from many countries.

Our members presented the poster of the chapter activities and each one presented the results of their own research project.

They participated in the Khet tournament, played at the Olympics Outreach. Unfortunately, Jorge Sanchez lost the semi-final against the final champion. The INAOE chapter won for the second year in a row the first place in the Olympics competition.
With Dr. Svanberg

Keynote Luncheon

Student Chapter Leadership Workshop 2011

Student Chapter Exhibition Mixer

Students from Mexico and Colombia

With Dr. Strojnik at the poster session
Chapter meetings

Summer meeting
To introduce new members and present the new board of the chapter, we organized a meeting on October, 2010. Eating pizza and playing games we started the new season of activities 2010-2011.

Winter meeting
“Posada”

Being a tradition in the Mexican culture, we celebrate our classic “Posada”. The members of the chapter enjoy a delicious barbeque, we had a “piñata” full of candies and by the end of the party there was a raffle to earn some gifts, chocolates and some tricky prices.
Having fun during the raffle

The piñata
The Chapter in the web

Facebook

The SPIE/OSA Student Chapter is on the social network, advertising our past and future activities and as a way to be in touch with students.

Website
Polo shirts

Creating a good image in the community this year we decided to create new shirts for the chapter, this time in black. This way it’s easier for people to distinguish a chapter member during our activities.
4. Details of planned activities for the future.

Activities 2011-2012
The activities that will be realized are the following ones:

August-December 2011

- **Website**
  Description: Updating and reorganizing our website so it is easier to website visitors to get relevant information and to know who to communicate with and how to subscribe to our student chapter.

- **Visiting Lecture Program**
  Description: Thanks to the SPIE Visiting Lecture Program and the OSA Traveling Lecture Program, the chapter will organize a couple of conferences with researchers from other countries as some other activities as workshops and social meetings with the chapter and the invited researcher.

- **Khet tournament**
  Description: The second Khet tournament will be held on October. There will be a week for players to warm-up and practice their strategies and after that the main event were the last champion will defend his title.

- **Chapter meeting**
  Description: To improve the relationship between our chapter members, this winter will be a “Posada”, a party for all the members and people willing to be part of the chapter.

- **DIVEC FEST 2011B**
  Description: This time, the DIVEC FEST will be a chance for students to present their projects and innovations. The SPIE Student Chapter will participate with simple but representative projects to make publicity to the chapter and to optics.

- **Visiting high school**
  Description: Taking the invitation of several physics professors, the SPIE student chapter will be visiting several high-schools showing the activities of the chapter and making and approaching optics to young students from our community.
January-August 2012

- **Winter Short course for kids**
  Description: Creating interest in young students towards science (optics) applications by helping them to understand the importance of this discipline, its use and letting them apply it in a practical activity. We will make more interactive activities for the participants. We will try to increase the number of kids and to divide them in smaller groups.

- **Presenting papers**
  Description: This year we hope for masters candidates members have the chance to presented papers at the most important and recognized events at national and international level.

- **Conferences**
  Description: We will organize some conferences given by researchers from our own University.

- **Meetings**
  Description: The chapter will host its summer meeting for the chapter members to get to know each other and relax from all our academic and chapter activities.

- **Summer Short course for kids**
  Description: Creating interest in young students towards science (optics) applications by helping them to understand the importance of this discipline, its use and letting them apply it in a practical activity. We will make more interactive activities for the participants. We will try to increase the number of kids and to divide them in smaller groups.

- **Planning 2012 Mexican Student Chapter Meeting**
  Description: Collaborating with other chapters from the country, we expect to organize a new meeting for all the Mexican chapters, in order to increase the relationship between chapters and share ideas to improve our activities.

- **Leadership Workshop 2012**
  Description: The officers from our chapter will have the chance to meet people from all over the world at SPIE most important conference: SPIE Optics and Photonics.
5. Financial information.

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