

Montreal SPIE student chapter annual report

January - December 2009

A. 2009 Chapter Officers

| | |
|---------------------------------------|--------------------------------|
| President: Mathieu Maisonneuve | mathieu.maisonneuve@polymtl.ca |
| Vice-President: Julie Fantoni | julie.fantoni@polymtl.ca |
| Secretary: David Rioux | david.rioux@polymtl.ca |
| Treasurer: Sébastien Besner | sebastien.besner@polymtl.ca |
| Advisor: Michel Meunier | michel.meunier@polymtl.ca |

B. Our members

Total number of members: 12

| Name | Expires | Name | Expires |
|------------------------|-----------|-----------------------|-----------|
| Jean-Simon Corbeil | 22-Mar-10 | Kanwarpal Singh | 31-Aug-10 |
| Sébastien Besner | 31-Mar-10 | Helgi Skulason | 31-Jan-10 |
| Jonathan Daniel-Rivest | 19-Feb-10 | Amirhossein Tehranchi | 30-Jan-10 |
| Julie Fantoni | 30-Apr-10 | | |
| Remi Lachaine | 31-Oct-10 | | |
| Pierre Lafrance | 30-Sep-10 | | |
| Mathieu Maisonneuve | 31-Mar-10 | | |
| Antoine Moevus | 30-Sep-10 | | |
| David Rioux | 31-Mar-10 | | |

C. Report of activities held during this time period

1. SPIE Meetings:

A first meeting was held on February 12th to make the assessment of the year 2008 and to elect the new executive team. During the second half of this meeting, we discussed on various activities that could be held during the year 2009.

Another meeting was held on October 2nd to welcome new members we recruited during the year and to discuss the activities planned for fall. The focus was given on selecting the organizers for the different activities and the date at which these will be held.

2. Biophotonics workshop :

The workshop was held on the february 5th and 6th. It was a great success with more than 20 participants, 6 professors and 2 industrials. For more details, we invite you to look to the website of the workshop: <http://spie.phys.polymtl.ca/workshop2009/>.

3. Photonics toolkit workshop

The photonics toolkit was held on march 5th, 6th, 7th and 8th. It was a great success too, with numerous participants coming from Canada and United States. Also, very interesting visit, presentation and workshop.

Our collaboration in this workshop was mainly financial help, logistic help and also presentation, with Mathieu Maisonneuve which have done a workshop on how to do instrumentation with Labview.

4. Outreach activities:

One of the main goals of our student chapter is to promote science to high school students. We have made presentations about electromagnetism and optics on April, May and June in schools in Montreal area

We will also contact more teachers to give presentations in more schools in the region of Montreal. We are also developing new demonstrations and improving some of the old ones.

5. Industrial visits:

This year, we've organized a visit in the Institution of National measurement and Standard in Ottawa. This visit has been done in collaboration with the OSA student chapter. This was a great success with 40 participants, and we will do again this visit next year because numerous people were interested (more than 65 persons) and place for visit was limited (40 people max).

We plan at the beginning of the year to visit some industries like Thales and Marconi which are specialized in infrared imaging.

6. Recruitment:

In spite of some member departures because of the end of their studies, we were able to keep a good number of members due to the addition of seven new members to the chapter with the help of the different activities we organized.

The main recruitment activity was a very successful BBQ that we organized to promote the activities of the chapter. We served hot dogs and soft drinks to the students as we explained to them the goals and activities of the chapter as well as the benefits they get for being members of the SPIE.

We also show some demonstration done in School for kids and speak about the possibility of networking with SPIE student chapter.

D. Future activities

1. Industrial visits:

This year again, and in collaboration with the SPIE chapters of Laval and Ottawa, we will plan visits to industries relevant to optics in different regions of the province of Quebec and Ontario.

2. Outreach activities in high schools:

We plan some presentations in schools to interest students in sciences, mostly in physics and optics.

3. Green photonics workshop:

As we do every year, one of the main activities of the chapter will be the organization of a workshop, with invited speakers in the field of optics to get students and chapter members in touch with the searchers in the field. For this we invited in collaboration with the student chapter of the American Nuclear Society Mr Miquel, specialized in the inertial fusion made by laser confinement. This workshop will also speak about the others technologies for green photonics like solar cell and use of plamonic to enhance efficiency of this solar cell.

E. Budget statement

Our Budget is done in Canadian dollars, but we present it converted to today's exchange rate in US \$.

Beginning balance:

254.34 CAD = 240.73 USD

Revenues:

SPIE revenue: 744.31 CAD = 700 USD

Grant for biophotonic workshop: 2450 CAD = 2320 USD

Grant for the industrial visit: 400 CAD = 378.68 USD

Expenditures:

Biophotonic workshop: 2409.06 CAD = 2281.38 USD

Photonic toolkit workshop: 673.8 CAD = 637.8 USD

Outreach activities: 40.83 CAD = 38.65 USD

BBQ activity: 109.25 CAD = 103.42 USD

Optical activity: 53.05 CAD = 50.22 USD

Industrial visit: 475.93 CAD = 450.56 USD

Optical equipement for scholar demonstration: 150 CAD = 142 USD

Christmas party: 100 CAD = 94.7 USD

Ending balance:

Balance: 163.27 CAD