

# Student Chapter Reports

Department of Electronics, Carleton University

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### **Chapter Officers 2014-2015**

President: Yao Sun ([Yaosun@email.carleton.ca](mailto:Yaosun@email.carleton.ca))

Vice President: Ryan Veenkamp

Treasurer: Shuyu Ding

Advisor: Winnie Ye

### **Current Members**

<b>Name</b>	<b>Expires</b>
Mohammed Alzahrani	7 October 2015
Shuyu Ding	10 December 2015
dingyi feng	4 February 2017
Dusan Gostimirovic	22 March 2016
Seyed Hamed Jafari	10 July 2015
Shuxia Li	16 March 2016
Owen Marsh	13 November 2015
Yao Sun	20 November 2015
Koloman Varady	4 November 2015
Wenjun Zhou	14 August 2015

## **Carleton Univ. Chapter's activities since last report**

### 1. Leadership Development

*Photonics Europe, Brussels, Belgium*

Our chapter use the Officer Travel Grant to send our vice president Ryan Veenkamp to attend the leadership workshop held in Brussels, Belgium. The 1-day interactive workshop let Ryan explore the area of emotional intelligence as it relates to leadership and focused on acquiring key skills for growing and developing into an excellent leader.

### 2. Virtual Ventures workshop

Carleton University, Ottawa, ON, Canada

Aug 21<sup>st</sup>, 2014

Presenters: Yao Sun, Owen Marsh, Shuyu Ding, Dusan Gostimivoric and Yule, Xiong



For the third year in a row the Carleton SPIE Student Chapter gave a workshop for Virtual Ventures summer camps, which are programs designed for high school summer camps at the university. The workshop was broken into two parts. We used a photonics outreach kit for the first half of the workshop. The first part involves fun experiments including thermal optics, the use of polarizers, diffraction gratings etc. We also taught them the concept of wavelength, polarization, wave guiding etc.



For the second part of the workshop, we ask the students to make convex lens from transparent jelly in order to focus light to a point. The students really enjoyed this experiment, they also tried to make concave lens using the jelly. During the experiment, we also taught them the concepts of focal point, beam guidance etc. We hope that these interesting optics demonstrations will inspire the students to pursue optics when they reach the university level.

### 3. Paper Review Sessions & Settlers of Catan

Bi-Weekly, 2014

On Campus, Carleton University, Ottawa, ON. Canada

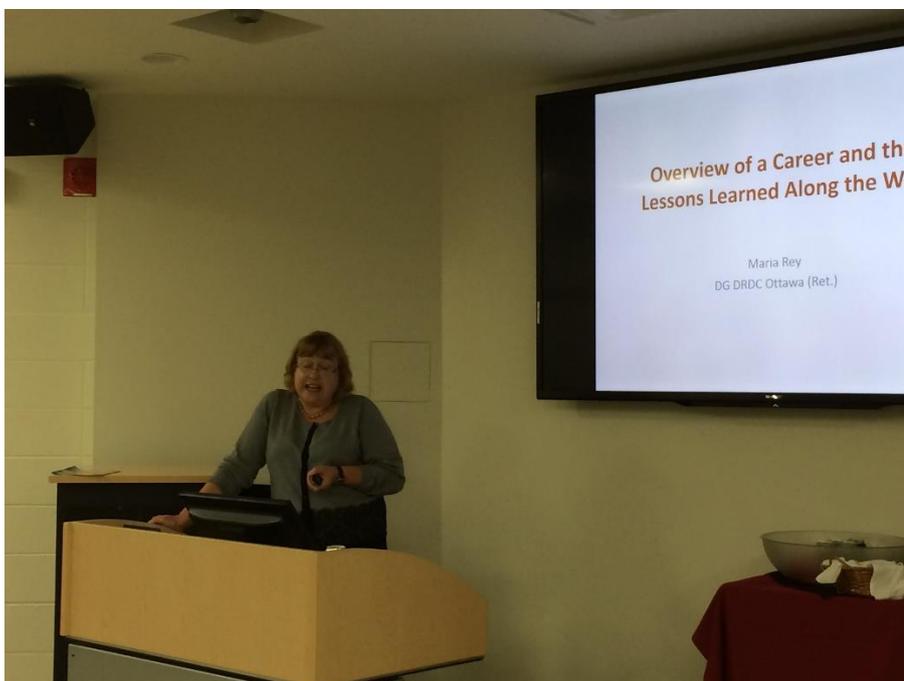
For the second year in a row, we held the bi-weekly paper review sessions in a room on campus. For each session, one of the member will be responsible to choose a journal paper in a subject area that they find very interesting. He/she will send the selected paper to anyone else in the group and everyone who was interested in such topic will meet at the scheduled time to further discuss the topic. We found this activity is really beneficial as we are no longer narrowed in our own research field, as knowing new stuff in the photonics field helps us gain insights on our own research. After each session, the members get together to play Settlers of Catan board game. We think this is a good group activity to let the members become more close to each other. Pizza and beverages

were provided in each session for 5-6 people.

#### 4. Career development seminar for Women in Optics

Oct 7<sup>th</sup>, 2014

On Campus, Carleton University, Ottawa, ON, Canada



We held a career development seminar for women in optics together with Carleton's IEEE student chapter and IEEE Women in Science and Engineering Society. The two invited speakers are Donna Strickland (2013 OSA president, associate professor from University of Waterloo) and Maria Rey (Director general, Defence R&D Canada). They both shared valuable career development stories from their career path which could benefit not only women but also male

students planning to start their careers. They also shared some tips on finding the right position, how to balance between life and work etc. Everyone attended the seminar learned valuable career development tips from their presentation. Sandwiches and beverages were provided for ~30 people.

### 5. Poster Design

For the first year, our chapter designed a poster for recruiting. We found the chapter has little influence among undergraduate students as there are no courses on photonics at undergraduate level in our school. So we decide to design a poster for recruiting. We hope this poster will help us in advertising our chapter. We are also working on building our own chapter website, which would be a great addition to advertise our chapter activities!

SPIE is the international society for optics and photonics.  INTERNATIONAL YEAR OF LIGHT 2015

# JOIN SPIE. STUDENT CHAPTER

CARLETON UNIVERSITY

**SPIE is the international society for optics and photonics founded in 1955 to advance light-based technologies.**

**SPIE Student Membership is your gateway to the optics industry. Joining the society provides access to resources that will make a difference in your career.**

Members visiting Rochester University, New York

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- Access to SPIE online courses
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- Discounts for participation at SPIE conferences
- Participate in student chapter activities
- Free professional development webcasts
- Networking events at SPIE conferences designed for students

**Carleton University Chapter's Past Activities include**

- Seminars/Workshops
- Board Game Tournament
- Tour to companies
- Visiting other student chapters

**And More Fun Activities!**

Join Us by 

Scanning QR Code Or Visit <https://spie.org/Membership/addresses>

### Financial Reports:

Roll over from previous year: \$173.98

Beginning balance: \$156.73+\$500=\$673.98

Activity	Time	Money spent on	Remaining balance
Year End Celebration	2014/01/20	Two pitchers of beer	\$639.48
First Paper Review Session	2014/02/28	Food and Beverage	\$593.68
Friendly Meeting with	2014/05/14	Beverages & parking	\$574.68

U Ottawa SPIE Chapter			
Virtual Venture Workshop	2014/08/21	Plastic forks, spoons for cutting jelly	\$569.03
Women in Optics Seminar	2014/10/17	Partial payment of the food and beverages served at the seminar (\$172)	\$397.03

Roll over to next year: \$397.03

We are planning to use this money for poster printing, hire students to build our website, and buy art supplies for the tunnel art.

**Future Activity Plans:**

1. Tunnel Art in school to raise awareness of light
2. Participation in SPIE conferences
3. Invite visiting lecturers and people from industry to give lectures in Carleton University
4. Hold regional events with SPIE student chapter University of Ottawa or other chapters
5. Complete our chapter's own website
6. Photo contest to celebrate the Year of Light

**Conclusion:**

During the past year, we have gained experience through delivering workshops, organizing events and seminar. We hope to continue the good work and increase our chapter's influence among undergraduate students this year.