Harbin Institute of Technology SPIE student Chapter

Annual Report December 2016

2016 Chapter Officers

Advisor: Junping Zhang
President: Tong Li   ltong@hit.edu.cn
Vice President: Qingyan Wang
Secretary: Nan Su
Treasurer: Cuiping Shi

List of Members in 2016

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Activities outline since foundation of Chapter (2016)

In this year, the chapter organized plentiful activities, which is briefly listed as follows:

1. Organized members’ skiing celebrating traditional Chinese New Year.
2. Held an inter-club lecture and invited Dr. Yue Yang, Engineer of Silicon Valley
3. Organized member’s BBQ.
5. Invited Chein-I Chang, Fellow of SPIE, and his research group to give a lecture on optic image processing and how to write a journal paper.
Details of Activities

1. Organized members’ skiing celebrating Chinese New Year.

At the beginning of this year, our chapter also organized some excursions. On January 25th & 26th 2016, we organized a two-day skiing at Acheng, Heilongjiang Province. Even though our university lies in the northern part of the country, our members seldom have the opportunity to enjoy the amazing beauty of ice and snow in Harbin. The intention is to promote friendship of chapter members and publicize SPIE.

We set off on the morning of January 25, and arrived at Acheng at noon. The photo below is taken when we first arrived at the skiing field.

Besides skiing, our members can also enjoy the ice slide. We formed a line, holding the other’s legs, and slid down from the hill. We need to trust each other during the glide so that everyone can enjoy the excitement safely.

In the evening, we had a tea party. The skiing and the tea party had gradually become one of our traditions, for it is a good opportunity for us to know each other better.
2. Held an inter-club lecture and invited Dr. Yang Yue, Engineer of Silicon Valley

As for academic activities, we invited Dr. Yang Yue to give us a lecture on ‘Towards High-speed, Low-cost, Low-power Ethernet with Packet-Optical Engine’, and talked about his work appearance.

Dr. Yang Yue is a hardware engineer at Juniper Networks in Silicon Valley in USA. He received the Ph.D. degree in Electrical Engineering from University of Southern California, Los Angeles, California, USA, in 2012.

Yue’s current research interests include Integrated Photonics, Free-space and Fiber Optics, Optical Interconnect, Optical Communications and Networking. His research on “orbital-angular-momentum mode division multiplexing” has been published by Science. He has published over 110 peer-reviewed journal papers and conference proceedings, 5 invited papers, 1 book chapter, and 9 issued or pending patents.
Dr. Yue giving the lecture

After the lecture, our members are very interested in Dr. Yue’s work experience in Silicon Valley and research experience, especially on the paper published on Science.
3. Organized member’s BBQ

In the middle of this semester, we organized an inter-club BBQ at Golden River Bay, which intends to relax a little bit from the research and projects, and let members get to know each other better.

Here’s an interesting episode. We got the charcoal, but forgot to bring any lighter
with us. When the tents are set up. We found it difficult to start the campfire. Then we decide to let the member who knew the least of our members go borrow a lighter or something from another family camped nearby. At the first time, one of our members, who is a Mr., tried but failed. The second time, one of our beautiful ladies went to borrow the lighter. The family not only lent us, but helped us start the fire as well. We made fun of our male member for quite a long time.
4. Attended Leadership Workshop and SPIE Optics+Photonics

During 26 August to 1 September 2016, two of our members attended the conference of SPIE Optics + Photonics 2016 on behalf of our Harbin Institute of Technology chapter of SPIE. This annual conference was held by SPIE, at a very beautiful sea-side city, San Diego, California. Every year SPIE strive to create a fun and informative series of events for over 100 student attendees from all over the world. As representatives of our chapter, Nan Su and Shu Tian, who are members of our club, are entitled to attend this conference.

On 26 August 2016, they joined the annual Student Chapter Leadership Workshop. Dr. Jean-Iuc Doumont facilitated a highly interactive all-day session with SPIE Student Chapter leaders from around the world. In the morning, with help from 25 veteran students and professional facilitators, they discussed what being a leader is all about (and what it is not about) with their group members from different countries. Then one of their group members wrote down the main idea of their group and gave a presentation to other groups. In the afternoon, they listened to a lecture about how to communicate across cultures given by Dr. Jean-Iuc Doumont. Then they had another discuss which is about how to go from ideas to achievements for your chapter with their group members who are different from the members in the morning.

In this whole day Student Chapter Leadership Workshop, they experienced an excellent brainstorm, they communicated and shared different ideas with students from all over the world and built relationship with other chapter leaders. This activity connected all the SPIE Student Chapters together.

![Hall which held leadership activity]
Small group discussing how to be a good leader

Two of our chapter members and our advisor at SPIE Optics+Photonics

The SPIE Optics+Photonics 2016 began after the Student Chapter Leadership Workshop. During the conference they listened to presentations which they are interested in given by different professors and students and communicated with other students. Through this conference, they learned lots of knowledge from each other and broadened their horizon.

What’s more, after they came back, they gave us a presentation in order to share
their experience with the rest students of our chapter. They brought much knowledge and information back to our chapter. This is undoubtedly benefit to advertise SPIE and chapter. In a word, their experience is very meaningful.

5. Invited Chein-I Chang, Fellow of SPIE, and his research group to give a lecture on optic image processing and how to write a journal paper.

On October 10 & 11, Dr. Chein-I Chang gave us a lecture on real-time optic image processing and how to write a journal paper.

Dr. Chein-I Chang is a professor of Computer Science and Electrical Engineering, University of Maryland, Baltimore County. He is IEEE fellow and SPIE fellow. Dr. Chang’s research areas include data compression, digital signal processing, statistical communication theory, and spectral analysis.

On the first day, we introduced the recent work of our chapter members and Dr. Chang provided many valuable advices on our work.
During the lecture on the second day, Dr. Chang stated the difficulties in remote sensing images real time processing and explained his idea of solving them detailedly. Here are some photos taken during the lecture.
After the real time target detection lecture, Dr. Chang also gave us a speech on how to get our paper published. The members learned a lot from the speech. After the lecture, Dr. Chang answered our questions nicely and took photos with our members.
Members asking the questions about the lecture

Dr. Chang answering the questions

The photo below is Chein-I Chang (in the middle), our advisors and members taken after the lecture.
Plan in Future

Activity Plan 1: Recruit new members;
Details:
Rent of equipment. 50 USD
printing flyers & chapter introduction. 30 USD

Activity Plan 2: Brief academic introduction for lower grade students;
Details:
Rent for conference room. 50 USD
Supplies:
Food 30 USD

Activity Plan 3: Summary report by members who participate in International conference;
Details:
Rent of conference room. 50 USD
Supplies:
Food 30 USD

Activity Plan 4: Visiting Lecture of famous professor or scholar;
Details:
Transportation fee:
Intracity fee 30 USD
Taxi fares between airport and urban area: 50 USD
Supplies:
One-week accommodation fare 400 USD
Rent of presentation hall. 50 USD
Food & Drinks. 30 USD
Welcome dinner 100 USD
Other meals for one week visiting. 250 USD

Activity Plan 5: Tea Party / New Year Party/BBQ.
Supplies:
Rent of room of ceremony center or field. 100 USD
Fare of using equipment in the center or field. 50 USD
Food & Drinks. 100 USD
Awards & Prize. 100 USD
Other supply & preparation. 200 USD

Total: 1700 USD

Financial information
1. Beginning Balance: 1500 USD.
2. Ending balance last year: -80 USD
3. Spend on the lectures
   Taxi from urban to Airport for people invited: 100 USD
   Banner of welcoming: 300 USD
   Rental Charge of classroom, meeting room: 100 USD
   Water and Food for students who attend his lecture: 100 USD
   Transportation subsidy for lower grade students: 50 USD
   Accommodation for people invited: 250 USD
4. Spend on non-academic activities
   Transportation: 100 USD
   Accommodation: 250 USD
   Food and drinks: 170 USD

Ending Balance: 0 USD