Zhejiang University SPIE Student Chapter
Annual Report September 2014

2014 Chapter Officers
President: Kai Hu hukai@zju.edu.cn
Vice President: Lingchen Huang huanglingchen@coer-zju.org
Secretary: Yingchen Wu wuyingchen@coer-zju.org
Treasurer: Jinyang Liu liujinyang@me.com
Advisor: Prof. Sailing He

Roster of Current Student Members
Hangyu Bai
Hongzhi Chen
Sitao Chen
Kequn Chi
liliang Chu
Jiantao Cui
Yongjiang Dong
Changqi Duan
Yu Gong
Yali Guo
Bao Han
Yingran He
Yuanyuan Hong
Kai Hu
Lingchen Huang
Qiangsheng Huang
Li Jiang
Li Jin
Qiang Jin
Bucan Lee
Borui Li
Jing Li
Xibin Li
Ying Li
Yanhong Liang
Hongze Lin
Hongyan Liu
Jing Liu
Jinyang Liu
Hao Lu
Jiamei Lu
Jun Ma
KeQi Ma
Guoyong Mao
Lei Mo
Wei Pan
Yaoran Sun
Jianwei Tang
Chengliang Wang
Kai Wang
Shaowei Wang
Xiaoyan Wang
Shengnan Wu
Yingchen Wu
Guofeng Yan
Qiang Yan
Chenyang Yang
Wei Yang
Xiong Yang
Jiaxian Yu
Longhai Yu
Liang Zhang
Senlin Zhang
Jiajiu Zheng
Shuomin Zhong
Ping Zhou
Jianfei Zhu
Zhenfeng Zhu
Chapter Activities since Last Report

1. Outreach Activities
(1) Annual Summer Program with KTH students
This is the third year of the summer program. 15 undergraduate students from KTH (Royal Institute of Technology, Sweden) visited our research institute, Centre for Optical and Electromagnetic (COER), for a two-week stay. During the stay, every two or three students worked as a team and participated in training programs, with various research topics including optical sensing, laser, bio-photonics, optical network and integrated photonics. 9 of our senior chapter members worked as training supervisors, helping them throughout the program, from principle learning, experimental exercise, to the final presentation. After the program, the visiting students told us that they achieved a better understanding of optics and photonics. We believe this outreach experience would be helpful to their research activities in the future.

The students from KTH and training supervisors from our student members
(2) Annual Youth Outreach Activity with Changhe High School

Through last two years’ cooperation, the summer camping activity between our research institute and the Changhe High School received more recognition from both sides. More students took part in this annual activity this year. As the main sponsor, 20 of our chapter members volunteered in the camp organization.

After the visitors’ arrival in the morning, we had a welcome address, followed by a brief introduction of the program outlines. Then the visitors were assigned into 6 groups, and led by our chapter members to a visit to COER’s state-of-the-art facilities, including the Clean Room, Network Lab, Grating Lab, Laser Lab, Bio photonics Lab and Laser Spectroscopy Lab. We demonstrated and discussed interesting phenomena related to optics, such as rainbow phenomenon by the prism, alternate change for brightness and darkness by the polarizers. Besides, some commonly used devices in fiber communications and fiber sensing were also introduced. The high school students showed much interest during the visit.
In the afternoon, we set off for a visit to the Hangzhou Shilan Microelectronics Co. Ltd, where we received a warm welcome from their staff and lectures about integrated circuits fabrication and the LED products from their senior engineers. The students learned a lot about industrial manufacturing and product designs, apart from the basic principle and research.
2. Academic Trip

Research always attracts our chapter members. Supported by the chapter, 3 members of our chapter, Hongyan Liu, Jun Ma, and Lingchen Huang, participated in the Asia Communication and Photonics conference held in Beijing, China last November. Our student members gave presentations on the topic of coherent optical communication systems. They had a lot of deep discussion with professors and students at the conference. It was quite an experience.

In August this year, 10 members of our chapter were invited to attend the Progress in Electromagnetics Research Symposium (PIERS) in Guangzhou China, proudly sponsored by the chapter. During the symposium, they also had a visit to the South China Academy of Advanced Optoelectronics. A seminar was arranged about the advanced photonics by famous professors from several best universities in China, including Zhejiang University,
Qinghua University, China University of Hong Kong and South China Normal University

3. Team Building

It is the fourth year since our SPIE soccer team was built. The team has experienced another wonderful year. More freshmen joined in our team and several girls even formed a mini cheer team. And this year, we won the second place in the Soccer competition of the Department.

Scored one goal (Left); Group photo of our team with the Champion team (right).
On the other hand, some new recruited members were playing basketball every now and again. In one of our chapter meeting, it was found that lots of our members are also fond of playing basketball. Considering the coming basketball competition, we decided to found a team to participate in the department’s basketball competition. With the great efforts from everyone, we won the final championship. It is quite a success! Congratulations to our heroes!

4. Communications

On August 16, the SPIE Optics + Photonics week began in a very beautiful sea-side city, San Diego. Approximately 200 leaders from SPIE Student Chapters around the world were participating in the annual student chapter leadership workshop this year. With great honor, Lingchen Huang was invited to attend the workshop, on behalf of ZJU University Club.
During the Student Chapter Leadership, student chapters’ representatives from different universities gathered together and had an exciting talk about how to be a good leader. Various kind of communication, including drawing, group discussion and lecturer speech made the event funny and exciting. After that topic discussion, Prof. Jean-luc Doumont gave us a talk about “Focus on the similarities in perspectives for effective communication”. In the afternoon, the chapter officers were asked to work together to solve problems which may occur in daily chapter running. The discussion with other students gave Lingchen a lot of inspiration, which would help him working better as the chapter officer. Apparently, such workshop is quite meaningful for chapter officers.
Planned Activities in the Future

1. Elect new chapter officers and recruit new members.

2. Organize new exciting activities

   a) The department of Optical Engineering is to host China Domestic Ph.D Forum for Optoelectronic Technology. As one of the sponsor, we are preparing to invite a lecturer to give a presentation at the forum. At the same time, we can attract and recruit more students.

   b) Together with student chapter of OSA and IEEE, we are planning visits to several top universities in Hong Kong, including Chinese University of HK, City University of Hong Kong, Hong Kong University of Science and Technology, etc. 20 chapter members from our chapter are estimated to be able to take this visit. We believe during this visit, we will have the opportunity to share our experiences in numerous topics, and discuss about the trends and future of the photonics research.

   c) After three years of successful precedents, the outreach activities with KTH and Changhe High School are a tradition. We will keep this tradition in the following years.

3. Team building

   The soccer team was quite a success but championship is the only target in the next year. More members are joining this year. On the other hand, the foundation of our basketball team was proved successful. We get the championship in the first year so we are going to keep our current teams running and explore other interesting ways to gather our members together, like board games or table tennis.

4. Publicity

   Propagation is important for an organization. We should let more students know our chapter and the enormous advantages they would benefit from. We are going to keep the magazine running in our research center. Besides, other effective ways, including website or social media are also considered to introduce ourselves and attract more students.
Financial Information

1. Beginning balance
   $-20 + $1700

2. Sponsorship: soccer team
   a) Clothes, socks, soccer ball $200
   b) Sport drinks $50
   c) Ground traffic $100

3. Sponsorship: basketball team
   a) Clothes, basketball $100
   b) Sport drinks $50
   c) Ground traffic $100

4. Summer outreach activity with KTH students
   a) Ground traffic $100
   b) Souvenir $50

5. Outreach activity with Changhe High school teenagers
   a) Ground traffic $200
   b) Welcome lunch at Zhejiang University $160

5. Academic tour to Beijing ACP 2013
   a) Railway fares $100
   b) Ground traffic $20

5. Academic tour to Guangzhou PIERS 2014
   a) Railway fares $200
   b) Ground traffic $60

6. Administrative expense
   $120

Ending balance: $70