Nanjing University Club of SPIE Student Chapter Annual Report
November 2019

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Chapter Activities in 2019

1. Student Study Groups

This year we continue to organize regular study reports in four different study groups which include nonlinear optics, signal and systems, principles of communication and machine learning. During the meeting every week, lecturers gave a lecture about a specific chapter in the specified textbook in turn. In April, after every group completed their study, we hold an awarding ceremony to award four-chapter members for their excellent behavior.

This is the first time for us to organized the study activity in groups, aiming at helping chapter members to get improved in optics, photonics, and some other majors acquire basic knowledge which is useful in their scientific research. Many members have highly praised this activity. In the future, we plan to stick to hold students' study groups activity annually.
2. Apple creative course

Photography is a useful skill in daily life. If we learn how to create better photos and videos using a mobile phone, we can record our life in a different way. So, we continued the cooperation with an Apple store in Nanjing and held the second creative course on mobile photography. On April 20\textsuperscript{th}, members of our chapter went to the Apple store in Nanjing JINMAO PLACE and learned how to use the Camera app to take Live Photos, capture a quick video on the go, and more in hands-on activities. With the help of staff in the Apple store, we learned some tips for taking photos and understood how to adjust exposure, contrast, color saturation, and more to enhance our shot. Every member who participates in the course is impressed with the course.
3. The night run in “International Light Day"

To celebrate the second “International light Day”. On May 16th, we organized the night running activity around the campus. Everyone who participated in the night run wore a fluorescent bracelet. At the starting point (the physical building of Nanjing University), the teams are formed in groups of two, then each team should pass through three strongholds and finally arriving at the playground. At each stronghold, each team member needs to complete an optical mini-game, get a sign, and guess the location of the next stronghold. After all members reached the endpoint (the playground), we made up the pattern of ‘IDL’ to complete the activity.
After the activity, we awarded prizes to the top 10 teams, which is the SPIE official international light day commemorative card. For the top two teams, we additionally awarded the Pike ballpoint pen logo with SPIE.

As a president of our chapter, Haocheng Yang, as well as the other officers, organized this activity. The event took no more than two days from the idea to the organization. Everyone in our group makes their own contribution. Furthermore, this night run activity improved the organizational skills of our chapter, which is good for future development.
4. Meeting with new members recruited this year

For future development, in September, our chapter recruited freshmen. On September 22nd, we held the first meeting on the new semester.

At the meeting, president Jiantao Ma first spoke. He first made an introduction of the recruitment situation in 2019. Then he introduced the International Society of Optical Engineering (SPIE) and the NJU chapter to the new students and the current officers.
Then, vice president Ya Xu shared her thoughts at the SPIE Nanjing University Chapter and research experience.

After that, all the new members introduced themselves and reviewed the past event. Finally, we discussed this year's activity plan. As secretary, I believe that we will develop better this year.

5. Visiting Lecturer program

On November 12, we invited Andrew Forbes, the professor of the University of the Witwatersrand, to visit Nanjing University. On the morning of November 13, Prof. Forbes and his assistant visited the National Laboratory of Solid State Microstructures of Nanjing University.
During the visit, Prof. Forbes made academic exchanges with professors in related research fields.

In the afternoon, Prof. Forbes gave an academic report on the topic "Vectorial Structured Light". Professor Yong Zhang from the Collage of
Engineering and Applied Science of Nanjing University presided over the report. Prof. Forbes introduced the recent progress in creating, manipulating and detecting vectorial structured light. After that, Prof. Forbes exchanged ideas on the issues raised by the teachers and students.
After the academic lecture, we held a communication meeting for Prof. Forbes and some grad students. We talked about the growth and planning of the academic career. Prof. Forbes shared his insights in the academic field and the industrial field. Besides, Prof. Forbes gave us some useful suggestions for future career development.
During the daily activities, the members of our chapter accompanied with Prof. Forbes to visit the Nanjing University Gulou Campus, Qinhui River and other attractions and tasted Chinese cuisine, leading professor to understand the culture of Nanjing. The President of our chapter, Jiantao Ma, presented gifts to Professor Forbes and his assistant in the name of the Nanjing University Branch of the International Optical Society.
Financial Information

1. Beginning balance
   $1765

2. Student study groups
   (1) Books and reading materials $200
   (2) Drinks $30

3. Apple creative course
   (1) Ground traffic $30
   (2) Drinks $30

4. The night run in “International Light Day"
   (1) fluorescent bracelet $100
   (2) game material and Souvenir $320
   (3) Drinks $30

5. Meeting with new members recruited this year
   (1) Drinks and foods $110
   (2) Souvenir $80

6. Visiting Lecturer program
   (1) Ground traffic $20
   (2) Accommodation $150
   (3) Souvenir $320
   (4) Dinner $195
   (5) Venues fee $50
   (6) Drinks $30
(7) Posters $16

7. Ending Balance $54

**Planned Activity in the Future**

1. Creating and maintaining a web page

2. Visiting well-known companies and research institutes

3. Trying to communicate with other student chapters

4. Maintaining a partnership with the OSANJU

5. Organizing several lectures on scientific software, such as Zemax, Matlab and LabVIEW