Nanjing University Club of SPIE Student Chapter Annual Report
February 2017

2016 Chapter Officer

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Roster of Current Student Members

Xinyuan Fang Jiale Guo
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Dan Wei Yifeng Song
Yongmei Wang Huijun Wang
Lei Tang Dunzhao Wei
Yue Cheng Zeyu Kuang
Lidan Zhang Yifan Shen
Shixiong Xiao
Chapter Activities in 2016

I. Spring outing

In order to enhance the cohesion within our group, we planned a collective activity at the beginning of the establishment of our association. With spring coming, everything rouses up from sleeping, the blossoms open in all their glory. To live up to the beauty, we went for an outing to the Green Expo Garden on 5th May. At 10:0 a.m., we arrived at the gate of Green Expo Garden. We rode bicycles along the winding paths in the fields, across the meadows. Breathing the fresh air deeply and enjoying the beautiful scenery, we began our picnic. We drank, ate, sang and smiled. After the picnic, some lay on the grass talking about their life and study, others played poker. It was a nice trip.
II. Academic Conference

(1) On 14th October, the 16th National Academic Conference of optical electromechanical technology and system was held in Guilin, China. Two of our members, Yongmei Wang and Yunzhi Zhu, attended the conference. Moreover, Wang gave oral and won the outstanding student’s paper award.
(2) On 2\textsuperscript{nd} November, the Asia Communications and Photonics Conference (ACP 2016) was held in Wuhan, China. This is a general international conference focusing on the optical and photonics. This is a good chance to communicate with the peers in our field. Xinyaun Fang, the president of our chapter, attended this conference to give oral.
III. Outreach Activity

In Gansu Province, China, after the earthquake, people have rebuilt primary schools in some regions, but they doesn’t have perfect course arrangement in some school. We got in touch with the teacher in a post-disaster reconstruction of school called Jiao Gong Elementary School and knew that they did not offer courses about natural science. Optical Science is one of the important enlightenment courses in elementary education. Optical Science in primary school introduces the most basic general knowledge, and it concerns with physics, astronomy, geography, chemistry, etc. Optical Science is also the foundation of physics in middle school. Therefore, we organized an activity that recording a video about optical science for the children from Jiao Gong Elementary School.

In order to prepare for the content, we needed to introduce in the video, we referred to the Natural Science textbooks that elementary school students learn now in Nanjing. We summarized some optical experiments, found the related experiment equipment from life, for instance, a mirror, cardboard, candles, brushes and so on, and made these experiments in Nanjing University, so that they can also do some experiments on their own after class. We explained the principle of experimental phenomena as well to cause the students’ interest in science.
Learning outcomes were fed back to us by the teacher in Jiao Gong Elementary School and you can see that the students were attracted by experiment in the video, watching earnestly. They were very grateful for our efforts. Apart from this, they also hoped that we could optimize this course and provide more video recordings in the future.
Optical Science plays a great role to the elementary student's life. On the one hand, learning science can help students get the most basic common sense, avoiding some accidents and dangerous behaviors due to
ignorance. On the other hand, the purpose is to inspire their interest in science and cultivate a more rational way of thinking. Among the students who have watched the video, as long as one of them is interested in optical science and may engage in related work in the future, this activity is of great significance. Of course, this video is the first lesson, we will record videos about other aspects of optical science later and we may also provide the teaching video to other schools in need.
Financial Information

1. Beginning balance
   $450

2. Spring outdoor activity in greenery theme park
   (1) Ground traffic $30
   (2) Drinks and food $50

3. Filming optical teaching video for the remote montanic children
   (1) Experiment devices $60
   (2) Drinks and food $30

4. Autumn outdoor activity in Xuanwu lake park
   (1) Ground traffic $20
   (2) Rafting fee $110
   (3) Drinks and food $70

5. Ending balance $80

Planned Activity in the Future

1. Elect new chapter officers and recruit new members.

2. Organize new exciting activities.
   (1) Outreach Activity.
   (2) Team Building.