1 Elected Officers
Advisor: Christos Argyropoulos
President: William Thomas
Vice President: Boyuan Jin
Secretary: Alfred Tsubaki
Treasurer: Vojislav Medic

2 Chapter Members
Aaron Ediger
Tianjing Guo
Boyuan Jin
Graham Kaufman
Ufuk Kilic
Ying Li
Vojislav Medic
Andrew Reicks
William Thomas
Alfred Tsubaki

3 Chapter Activities in 2018-2019

3.1 Student Seminar Series
We organized a local seminar to communicate some of the optics research of our members. William gave a presentation on his dissertation topic, “Femtosecond XFROG in the middle infrared: A novel approach to standoff detection,” in November 2018. This seminar helped William prepare for his presentation at the SPIE Photonics West 2019 conference, prepare for his dissertation, and publicize his research. This was the first of our student member seminars that are intended to provide research feedback and constructive criticism from members of our group and the public.
William giving a seminar about his dissertation topic.

3.2 **PHOTONICS WEST**
Two of our members traveled to SPIE Photonics West in February 2019. William Thomas received the officer travel grant to present his research on “Femtosecond XFROG in the middle infrared: A novel approach to standoff detection.” Alfred Tsubaki gave an oral presentation on “Oxide layer reduction and formation of an aluminum nitride surface layer during femtosecond laser surface processing of aluminum in nitrogen gas.” William learned a lot of chapter leadership practices that he intends to implement for this new Nebraska chapter.

3.3 **SECOND SATURDAY SCIENCE LAB: LIGHT AND LASERS WITH SPIE (FEBRUARY 9TH, 2019)**
SPIE student members worked with a local museum (Morrill Hall) to provide a morning of science for young children. We were provided educational outreach kits from the Nebraska Center for Materials and Nanoscience (NCMN) to demonstrate different scientific phenomena. The activities included a laser maze board game, making glow-in-the-dark bracelets, and infrared ‘face-painting’. This event attracted over 40 children and the museum coordinator mentioned our members did a fantastic job. Below are images of the SPIE student members interacting with the children at the museum (top) and a thermal image of the SPIE student members in attendance (bottom).
Members in attendance: Boyuan Jin, Ufuk Kilic, Graham Kaufman, William Thomas, Aaron Ediger, Ying Li, Andrew Reicks, Tianjing Guo, and Mirzojamshed Mirzokarimov.

4 PLANNED ACTIVITIES

4.1 SECOND SATURDAY SCIENCE LAB
We are planning to continue to work with Morrill Hall museum for future outreach events whenever the opportunity arises.

4.2 ADDITIONAL SEMINARS
We plan to hold a few more of our student seminar series this year for the benefit of those presenting in upcoming conferences and those who need feedback on their research. In addition, our chapter will hold a vote to choose a visiting lecturer at our next chapter meeting.

4.3 RECRUITMENT
Our member list is mostly comprised of graduate students in the electrical engineering department. We are planning on making flyers to distribute to the optics and electromagnetics undergraduate courses at the university. Pursuit of more undergraduates and expansion into the physics department are our main recruiting goals for 2019. Expanding our group into the physics department would give our group a more diversified background and open conversations that are not possible within our own departmental circle.

5  Financial Information

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Due to not meeting the 10 chapter member requirement in December, we were not able to apply for an Optics outreach kit. Since December, we have fulfilled all of the requirements to be a chapter in good standing and we will apply for funding for the next year.

Annual report completed by Alfred Tsubaki, William Thomas, and Boyuan Jin.