



Student Chapter Annual Report 2015

Officers

Position	Name	Member #	Email
President	Sarah Krug	3648027	skrug@alumni.nd.edu
Vice President	Sichao Zhou	unknown	zhous4@udayton.edu
Treasurer	David Lombardo	3650224	lombardod1@udayton.edu
Secretary	Mengyang Zou	3650277	zoum02@udayton.edu
Advisor	Imad Agha	1012684170	iagha1@udayton.edu

Member List: 19

Name	Expires
Ujitha Abeywickrema	25 April 2015
Yu Bai	16 June 2015
Neil Banerjee	22 September 2015
Mahmudunnabi Basunia	7 July 2015
Amit Ben Harush Negari	19 July 2015
Behzad Bordbar	6 October 2015
Almabrok Essa	20 January 2015
Jeffrey Kraczek	10 December 2015
Sarah Krug	5 October 2015
Han Li	18 June 2015
David Lombardo	19 October 2015
Chuan Ni	10 July 2015
Yngfei Shen	24 November 2015
Junxin Wang	9 January 2015
Shiyi Wang	10 February 2015
Zhucheng Xiao	17 July 2015
Ying Xu	22 June 2015
Sichao Zhou	6 October 2015
Mengyang Zou	20 October 2015

Alumni Roster: 10

Name	Graduation Date
Joseph Binford	Dec 2006
Emily Heckman	May 2006

Georges Nehmetallah	Dec 2006
Mohammad Saleh	Aug 2007
Jason Schmidt	Dec 2006
James Grote	(not available)
Joseph Reierson	Dec 2011
Andrew Sarangan	(not available)
Erica Whitefield	Dec 2012
Logan Williams	Aug 2014

2014 Activities

Club Meeting

January 17, 2014

A meeting was held at the beginning of the spring semester to encourage chapter members and other students in the University of Dayton Electro-Optics Program to participate in outreach events. Special attention was given to recruiting volunteers for the chapter's booth at the annual TechFest outreach event. We brainstormed demonstrations for the event and decided to order Khet 2.0, a "laser chess" board game, which was likely to interest grade school students.

Outreach: Techfest 2014

February 15-16, 2014

Each year, Sinclair Community College sponsors a weekend outreach event that allows schools and businesses in the Dayton area to demonstrate the use of science and technology within their fields of expertise. The event is geared mostly towards elementary and middle school students and their families. The University of Dayton's Electro-Optics Department and SPIE/OSA Joint Student Chapter annually hosts an exhibit table at this event. We demonstrated some uses of light in technology, including examples of polarizers and diffraction gratings as well as a display related to laser communications. The laser game, Khet 2.0, was also used to provide a hands-on opportunity for children to discover how to direct light with mirrors and lenses. There were approximately 80 exhibits and 2,700 attendees at the 2014 Techfest. Images from our exhibit are shown below.



Social: Pi Day

March 14, 2014

To celebrate Pi day, we had a luncheon for all members, potential members, and faculty in the Electro-Optics Program. Pie and pizza was served at noon. Approximately 20 people attended. Additional ideas for activities were discussed.

Social: Spring Hike

May 3, 2014

An Electro-Optics professor planned a 3 hour hike at the Taylorsville MetroPark, a local hiking trail along the Great Miami River. It gave students in the department a chance to become acquainted with the geographic and natural resources located near the city of Dayton.

Social: Annual Spring Picnic

May 10, 2014

The UD SPIE Chapter sponsored a spring picnic for all Electro-optics faculty, students, staff, and their families. The event was held at noon at a nearby public park. An entrée and drinks were provided and attendees were asked to bring sides and desserts. Outdoor games were played.

Outreach: Presentations at Boy Scout Camp

Summer 2014

Jeff Kraczek, a member of the student chapter and the 2013-2014 president, volunteered at Woodland Trails Scout Reservation over the course of a few Saturdays in the summer of 2014. While volunteering, he gave presentations and demonstrations of electro-optics topics to groups of boy scouts.

Professional Development: Student Chapter Leadership Workshop 2014

Summer 2014

Jeff Kraczek and Shi Yi attended the Student Chapter Leadership Workshop at SPIE Optics + Photonics 2014.

Social: New School Year Social

September 5, 2014

A party was sponsored at the beginning of the school year to welcome back old students and faculty while introducing new students to the department. Pizza, drinks, and desserts were provided at 1:00. Individual and group pictures were taken.

Social: Annual Fall BBQ

September 20, 2014

A picnic was also sponsored at the beginning of the fall semester for all Electro-optics faculty, students, staff and their families. This event allowed incoming students to socialize with the professors and other students. Approximately 25 people attended. Frisbee, cornhole, and football were played. Chicken and hamburgers were served shortly after noon and drinks were provided. Attendees were asked to bring sides and desserts.

Club Meeting: Elections

October 6, 2014

This meeting was scheduled to elect new officers and encourage more students to participate in the student chapter and join SPIE and OSA. Pizza and drinks were provided to boost attendance. There were approximately 30 students.

Club Meeting: Monthly Meeting

October 17, 2014

The first meeting with the new officers was held to discuss future social and outreach events. Some ideas for social events that were discussed included a department game night and hike. The advisor of the chapter, Professor Imad Agha, expressed an interest in planning an event for the International Year of Light. It was also decided that new outreach demos were needed for the upcoming school year.

Outreach: Chaminade Julianne STEMM Expo

October 25, 2014

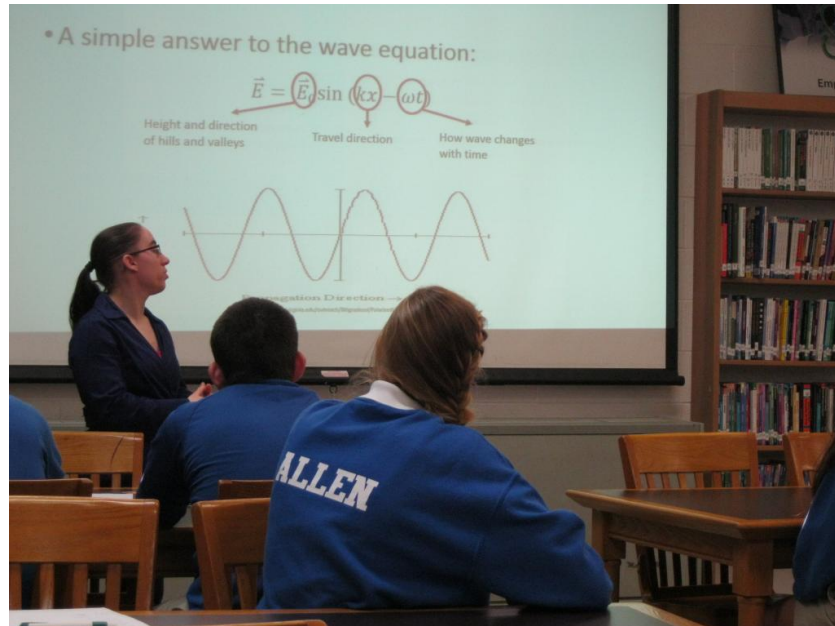
The SPIE/OSA Student Chapter hosted a booth at the STEMM (Science, Technology, Engineering, Math, and Medicine) Expo organized by Chaminade Julianne High School. The exposition was part of the annual Dayton Regional Science Festival and provided an opportunity for local businesses, organizations, and educational institutions to showcase demonstrations of science and technology in their products and programs. Our booth included demonstrations of laser communication, light polarization, and diffractive gratings. Over 100 people attended the event. Images from the event are shown below.



Outreach: STEMM Idol Speaker

November 11, 2014

Sarah Krug, a member of the student chapter and the 2014-2015 president, presented on the polarization of light at Chaminade-Julienne High School in Dayton. The presentation was done separately for freshmen, sophomores, juniors, and seniors. Approximately 15 students came to each of the 4 presentations. Demos included introductory polarizers and circularly polarized 3D movie glasses. Images are included below.





Club Meeting: Monthly Meeting

November 21, 2014

A few officers and chapter members met to go over this year's holiday party along with other social and outreach events. Pizza was provided to encourage attendance. The type of entrées and supplies to be provided for the holiday party were discussed. We also talked about ideas for a club field trip to tour the optics labs at The Ohio State University and began planning for an Open House of the UD Electro-Optics Department in April 2015.

Social: Holiday and 10th Anniversary Potluck

December 8, 2014

This year marked the 10th Anniversary of the University of Dayton's SPIE Student Chapter, which was founded in 2004. A dinner was scheduled during the week before exams in order to celebrate this, as well as Christmas and the New Year, before the students left campus for the holidays. A classroom was decorated in honor of both occasions. The student chapter provided 3 entrées: bbq pork, bbq chicken, and Chinese pepper steak. Students, alumni, faculty, and their families were invited to attend and contribute a favorite family dish. About 20 people attended. Table tennis was played after dinner. Pictures from this event are shown below.



Tentative 2015 Activities

Annual Events:

Social

- Pi Day
- Spring Picnic
- New School Year Kickoff Meeting
- Fall Picnic
- Holiday Social

Outreach

- TechFest 2015

Single-time events:

Social: International Year of Light Kickoff Event

January 2015

In honor of the opening ceremonies for the IYL 2015, we plan to have a kick-off event for the SPIE/OSA student chapter. If possible, we will stream the opening ceremony events. Other options include showing various photonics and optics videos available online during the event.

Professional Development: Tour The Ohio State University Labs

Spring 2015

The student chapter plans to schedule a tour of some optics and photonics laboratories at Ohio State

Outreach: Electro-Optics Department Open House

April 11, 2015

The student chapter hope to host an open house of the University of Dayton's Electro-Optics Department in order to raise awareness of the department and the International Year of Light around campus. The open house may include a presentation on the uses of light in technology, tours of department labs, and some hands-on demonstrations. We will also attempt to work with other departments at the University of Dayton in order to give a more interdisciplinary view of the importance of light in the world. Some of these departments may include physics, astronomy, theater, art, and religion.

Professional Development: SPIE Speaker

Fall 2015

The SPIE/OSA Student Chapter hopes to host an SPIE speaker in the fall of 2015.

2014 Finances

Funding

Date	Amount	Source
12/17/2013	900	SPIE Activity Grant

Expenses

Date	Amount	Activity
	34.99	Khet 2.0 (Outreach Demo)
3/14/2014	72.00	Pi Day
5/10/2014	97.12	Spring Picnic
9/5/2014	32.14	Start of Semester Party
9/20/2014	131.67	Fall Picnic
10/6/2014	78.00	Elections
11/21/2014	65.48	November Meeting
12/08/2014	83.62	Holiday Social
	17.49	Other Expenses

Beginning Balance: 1832.68
Total Expenses: 610.11
Interest: 2.40 595.02

Ending Balance: 2122.57