1. Elected Officers 2016-2017

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>E-mail</th>
<th>Member Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Lauren Taylor</td>
<td><a href="mailto:llt9077@rit.edu">llt9077@rit.edu</a></td>
<td>3633470</td>
</tr>
<tr>
<td>Vice President</td>
<td>Kamran Binaee</td>
<td><a href="mailto:kb4000@rit.edu">kb4000@rit.edu</a></td>
<td>3768234</td>
</tr>
<tr>
<td>Secretary</td>
<td>Ryan Ford</td>
<td><a href="mailto:rmf3259@rit.edu">rmf3259@rit.edu</a></td>
<td>3741032</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Zichao Han</td>
<td><a href="mailto:zh7474@rit.edu">zh7474@rit.edu</a></td>
<td>3710872</td>
</tr>
</tbody>
</table>
## 2. Current Chapter Members

### Student Members:
36 Total

<table>
<thead>
<tr>
<th>Grant Anderson</th>
<th>Zachary Mulhollan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alexandra Artusio-Glimpse</td>
<td>Sankaranarayanan Piramanayagam</td>
</tr>
<tr>
<td>Kfir Ben-Zikri</td>
<td>Jun Qiao</td>
</tr>
<tr>
<td>Emily Berkson</td>
<td>Rajagopalan Rengarajan</td>
</tr>
<tr>
<td>Kamran Binaee</td>
<td>Garreth Ruane</td>
</tr>
<tr>
<td>Andrew Burbine</td>
<td>Timothy Rupright</td>
</tr>
<tr>
<td>Kevan Donlon</td>
<td>Kevin Sacca</td>
</tr>
<tr>
<td>Leidy Dorado-Munoz</td>
<td>Philip Salvaggio</td>
</tr>
<tr>
<td>Ryan Ford</td>
<td>James Sinka</td>
</tr>
<tr>
<td>Timothy Gibbs</td>
<td>Brittany Smith</td>
</tr>
<tr>
<td>Zichao Han</td>
<td>Jeffrey Steidle</td>
</tr>
<tr>
<td>Riaz Haque</td>
<td>Joseph Svejkosky</td>
</tr>
<tr>
<td>Justin Harms</td>
<td>Lauren Taylor</td>
</tr>
<tr>
<td>Yang Hu</td>
<td>Anton Travinsky</td>
</tr>
<tr>
<td>Golnaz Jalalahmadi</td>
<td>Zihao Wang</td>
</tr>
<tr>
<td>Tyler Kuhns</td>
<td>McKay Williams</td>
</tr>
<tr>
<td>Zac Levinson</td>
<td>Jacob Wirth</td>
</tr>
<tr>
<td>Yansong Liu</td>
<td>Wei Yao</td>
</tr>
<tr>
<td>Victoria McGowen</td>
<td></td>
</tr>
</tbody>
</table>

### Alumni Members:
13 Total

| Neal Lafferty                      | Sanjit Maitra               |
| René Zünd                          | Chris Maloney               |
| Joseph Ho                          | Paul Romanczyk              |
| Douglas Axtell                     | Javier Concha               |
| Ariel Schlamm                      | Cristian Linte              |
| David Coumou                       | Amanda Ziemann               |
| Germain Fender                     |                             |
3. 2015-2016 Chapter Activities
The activities for the 2015-2016 academic year are described below.

**Lunch with Dirk Fabian**
Date: April 14, 2015
Number of attendees: 5
Included in previous report: No
Funding requested: No
How chapter funding was spent: Paid for student lunches

Description:
SPIE Student Services Lead, Dirk Fabian, shared a pleasant and sunny lunch at RIT with a handful of students from our chapter.

**(OSA) Traveling Lecturer - Chris Dainty**
Date: May 6, 2015
Number of attendees: ~60 at talk, 12 at dinner
Included in previous report: Yes
Funding requested: No
How chapter funding was spent: No SPIE funds were spent. (The dinner was funded by OSA)

Description:
Prof. Chris Dainty is a distinguished researcher in the field of optics specifically working in optical imaging, vision science, scattering, and propagation. Prof. Dainty spent the day visiting student research labs, having lunch with first year masters and PhD students, giving a seminar entitled “Imaging Science and Cell Phone Cameras,” and enjoying pleasant dinner with students and faculty.
**High School Student Research Interns**

Date: Summer 2015  
Number of attendees: N/A  
Included in previous report: Yes  
Funding requested: Yes  
How chapter funding was spent: No money was spent.

Description:  
Two students from high schools in the Rochester area spent the summer as volunteer researchers building and testing a portable schlieren imaging system. The students reported weekly progress to advisors.

**Painting with Light Event at the Memorial Art Gallery**

Date: July 25, 2015  
Number of attendees: ~50  
Included in previous report: No  
Funding requested: No  
How chapter funding was spent: No money was spent.

Description:  
Eleven students from the chapter organized, directed, and participated in a crowd-sourced painting with light event at the local art gallery to celebrate the The International Year of Light with the public community. The image below (left) is the final captured photo and the crew of students who put it together (right).

![Painting with Light image at RMSC](image)

**Painting with light image at RMSC**

Date: August 7, 2015  
Number of attendees: ~50  
Included in previous report: No  
Funding requested: No  
How chapter funding was spent: No money was spent.
Description:
At the closing of the RMSC After Dark: Lights Out event, chapter members directed the public circle the statue outside the Strasenburgh Planetarium with small flashlights in hand creating an iridescent scene that makes the statue look like it is about to take-off for outer space. The final image created with this crowd of people each holding their small light is below.

(SPIE) Visiting Lecturer - Philip Stahl
Date: October 14, 2015
Number of attendees: ~80
Included in previous report: Yes
Funding requested: Yes
How chapter funding was spent: $33.47 was spent on lunch and $118.00 was spent on dinner for students and the invited speaker.

Description:
Senior optical physicist at NASA Marshall Space Flight Center and, then, SPIE Past-President, Dr. Philip Stahl, visited RIT and the student chapter through the SPIE Visiting Lecturer Program. Dr. Stahl shared lunch with an intimate group of students, visited several research labs, gave a fascinating seminar on JWST, and had dinner with students and faculty.
**Student Talk Competition**
Date: Graduate - November 6, 2015 / Undergraduate - November 13, 2015
Number of attendees: 70
Included in previous report: Yes
Funding requested: Yes
How chapter funding was spent: No money was spent (funded by OSA Grant)

Description:
We held a very successful student talk competition. Participants submitted abstracts in advance and competing speakers were selected by the student chapter council. Each student gave a 10 minute talk that was critiqued by an audience of their peers. All speakers received written constructive criticism from the audience and a video of their own talk. The winners based on a numerical "score" in undergraduate and graduate categories received $75 and the first runner-up received $25.

**Chapter End of Semester/Holiday Party**
Date: December 10, 2015
Number of attendees: 15
Included in previous report: Yes
Funding requested: Yes
How chapter funding was spent: $198.28 was spent on finger food for attendees.

Description:
In celebration of the end of semester and to get into the holiday spirit, chapter invited all members and graduate students at RIT to an “End of Semester” party. Students shared their experiences and enjoyed each other’s company to start the holiday.
**Officer Appreciation Dinner in honor of winning the OSA Excellence Prize Finalist Award**

Date: December 11, 2015  
Number of attendees: 10  
Included in previous report: No  
Funding requested: No

How chapter funding was spent: $78.57 was spent in excess of the OSA excellence prize to cover the cost of dinner for attendees.

Description: A relaxing evening was spent at one of our favorite restaurants in celebration of winning the OSA excellence prize. We were joined by Andrew Davidhazy, the faculty founder of our RIT student chapter. We reminisced about the founding of the chapter and discussed past events and planned activities.

**Writing Retreat and Workshop**

Date: January 18, 2016 (pre-retreat mandatory workshop January 15, 2016)  
Number of attendees: 12  
Included in previous report: Yes  
Funding requested: Yes

How chapter funding was spent: No money was spent. The Chester F. Carlson Center for Imaging Science at RIT funded this event.
Description:
For the second year in a row, the RIT SPIE student chapter organized a writing retreat for graduate students. The application process started in early December by encouraging graduate students to submit abstracts for the material they wish to work on during the retreat. The top 12 abstracts were selected. Selected participants attended a pre-retreat mandatory workshop that happened on January 15th. The chapter invited a scientific writing expert to this half-day writing workshop to lead a group discussion and review session for the abstracts. Feedbacks from the participating students showed that this session was extremely helpful assessing common writing mistakes amongst peers. The actual writing retreat was held at a cottage on Honeoye Lake close to Rochester, NY. During the retreat, students spent time working on their writing projects which included conference/journal papers, thesis proposals, and dissertations. Two scientific writing experts were invited to the retreat where they presented a session on the common mistakes made in scientific writing.

Publishing Ethics Workshop
Date: February 29, 2016
Number of attendees: 10
Included in previous report: Yes
Funding requested: No
How chapter funding was spent: No SPIE funds were spent. The purchase of coffee and bagels for the attendees and the presenter was funded by the OSA Grant.

Description:
RIT SPIE student chapter invited Dr. Judith Pipher, professor Emeritus of Astronomy at University of Rochester and scientific editor for Astronomical/Astrophysical journal, to present a two hour “writing ethics” workshop at the RIT campus. This event was organized to help students become familiar with the concept of publishing ethics associated with scientific writing. Dr. Pipher introduced students to the review and publication process and addressed issues which can result in paper rejection. A round table discussion followed the session where students were able to interact with Dr. Pipher and ask questions about their individual writing and the review process.
RMSC Featured Presenters Outreach Event

Date: March 13, 2016
Number of attendees: ~30
Included in previous report: Yes
Funding requested: No

How chapter funding was spent: $11.40 was spent on simple toys and computer duster so that the turbulent air around the toys could be seen using the schlieren system.

Description:
Our chapter demonstrated our Schlieren Imaging System to children and parents in a presentation entitled, “Seeing the Invisible,” at the Rochester Museum and Science Center. The effect of changes in air density with respect to light collection and imaging were explained to event attendees at an introductory level. Children and their parents were able to interact with the system and see how heating elements and air turbulence affect the image of the system. This outreach event demonstrated the excitement and hands-on nature of optics to attendees and allowed participating chapter members to work on presenting optics concepts to audiences of all ages and levels of understanding.
Lunch with SPIE President Elect, Dr. Glenn Boreman
Date: March 22, 2016
Number of attendees: 6
Included in previous report: No
Funding requested: No
How chapter funding was spent: $99.55 was reimbursed by SPIE for lunch for the president elect and attending student members.

Description:
An enjoyable lunch was spent interacting with the president elect of SPIE, Glenn Boreman. We listened to his academic and work back-story and questioned him regarding upcoming SPIE events and opportunities for students and early professionals. We also discussed past, ongoing, and planned events for our chapter.

Lasertron Joint Activity with U of R Chapters
Date: April 15, 2016
Number of attendees: 11 RIT students, 15 U of R students
Included in previous report: Yes
Funding requested: Yes
How chapter funding was spent: $253.00 was put towards admission for RIT student attendees.

Description:
An exciting evening of friendly competition with the SPIE and OSA chapters at the University of Rochester was carried out at LaserTron, a local laser tag facility. We enjoyed several rounds of laser tag and social time with our STEM peers.

Monthly Happy Hour
Date: 2nd Thursday of Every Month
Number of attendees: 10-20
Included in previous report: Yes
Funding requested: No
How chapter funding was spent: No money was spent.

Description:
The second Thursday of each month, the graduate student members gather at a local bistro to have some drinks and chat amongst fellow chapter members, RIT peers from other disciplines, faculty and friends.

Monthly Chapter Meetings
Date: First Friday of each month
Number of attendees: 9
Included in previous report: Yes
Funding requested: No
How chapter funding was spent: No money was spent.

Description:
Seven meetings have been held within the 2015-2016 academic year (through April 30th). Members used this time to organize events and outreach activities. The minutes for each of these meetings can be found on our website: https://sites.google.com/a/g.rit.edu/spie-student-chapter-at-rit/meeting-minutes/2015-2016-academic-year

4. Planned Activities for 2016-2017

**Imagine RIT Outreach Event**
Date: May 7, 2016
Description:
The chapter is planning to present our Schlieren Imaging System and other small optics demonstrations at the Imagine RIT event to other students, faculty, staff, and members of the Rochester community. The event should be engaging for persons of all ages, where attendees can learn about optics in an exciting, interactive setting.
Expected total: $0
SPIE contribution: $0

**Corning Museum of Glass Group Field Trip**
Date: May 8, 2016
Description:
One of the chapter’s objectives is to help bridge the gap between local industries and graduate students. We plan is to take the interested students to the Corning Museum of Glass where they can actually observe the optics production line and learn about the history of glass.
Expected total: $175
SPIE contribution: $175

**Guest Speakers**
Date: Fall 2016 and Spring 2017
Description:
We plan to invite two speakers (one in the fall and one in the spring) through the SPIE Visiting Lecturer Program to give a talk to the chapter members and optics community at RIT. We plan to use chapter funds to take the speakers to dinner with several SPIE student chapter members to encourage .
Expected total: $400 ($200 per speaker event)
SPIE contribution: $400
**Joint Event with University of Rochester Student Chapter**

Date: TBD  
Description:  
To encourage interaction with local optics peers, we plan to hold another joint event with the student chapter at the University of Rochester. We will host students from the University of Rochester at RIT for a lab tour day. We will suggest to the chapter at University of Rochester to host our students for a similar event at their university.  
Expected total: $200  
SPIE contribution: $0

**Camera Lesson and BATCAM Work (Outreach)**

Date: June 8, 2016  
Description:  
On June 8th, we will be visiting Cherry Road Elementary School in Syracuse, NY to assist in giving a lesson to second grade students on how cameras work. Students will construct simple camera devices and learn how the device bends light to form an image. While attending the event, we will check on the current status of the BATCAM system that we have set up for the students and discuss improvements and video streaming possibilities. Throughout the summer and fall, we will continue to upgrade the BATCAM system so that the students can understand the habits of the bats in their area.  
Expected total: $1300 (funded by OSA Centennial Grant)  
SPIE Contribution: $0

**Presentation Skills Competition**

Date: Full academic year  
Description:  
The chapter is planning to organize a series of talk competitions for both graduate and undergraduate students. These competitions will be a venue for students to practice presentation skills and share their research with their peers. This will be the third year of talk competitions organized by our Chapter. Given the great enthusiasm for and success of the previous competitions, this year we would like to broaden the competitions to be a year-long event so that more students have the opportunity to compete.  
Expected total: $500  
Budget breakdown:  
- Undergraduate competition - $200  
- Graduate competition - $300  
SPIE Contribution: $500

**Photographic/optical/glass art exhibition**

Date: Spring 2017  
Description:  
RIT is a very diverse university offering fields of study across the fine arts and hard sciences. We plan to hold an exhibition for students who are artistically inclined, but do not generally have opportunities to present their work. One of the goals of this event is to bring focus to the artistic or
aesthetic elements of technical and scientific work. Chapter funds will be used for exhibition supplies and light refreshments for exhibitors and attendees.

Expected total: $300
SPIE Contribution: $0

Virtual Reality Experience for Kids (Outreach)
Date: Fall 2016
Description:
A research lab at the RIT Center for Imaging Science conducts research related to virtual reality in conjunction with human vision. We plan to hold an event on the RIT campus for a small group of kids from the surrounding community to introduce them to virtual reality in a context other than video games. Kids will be able to explore scientific concepts (potentially astronomy and or optical system design) in an interactive fashion which could not be achieved through standard demonstration methods. Funds will be spent on supplies.

Expected total: $50
SPIE Contribution: $50

RMSC Featured Presenters (Outreach)
Date: TBD
Description:
We plan to demonstrate our Schlieren Imaging System at the Rochester Museum and Science Center as in previous years. The demonstration will be an engaging, interactive learning experience for children and parents of the Rochester community. Funds will be spent to acquire supplies and small toys for the hands-on demonstration and for upgrading the rigidity of the schlieren imaging system.

Expected total: $75
SPIE contribution: $75

Holiday Social / End of the Semester Party
Date: December 2016
Description:
We plan to throw a Holiday party for the RIT optics student community. Approximately $100 of SPIE chapter funds will be used for food. This event will likely be supplemented by an OSA grant.

Expected total: $200
SPIE contribution: $100

Mini Optics/Imaging Demo Competition
Date: TBD
Description:
We plan to host a mini optics/imaging demonstration competition for undergraduate students. The demonstrations will be judged on the ability to educate to persons of all ages and levels of understanding about a particular physical phenomenon or optical device. Prizes will be awarded to the winners and pizza will be provided for attendees of the judging session.

Expected total: $1000
SPIE Contribution: $0
3rd Annual Writing Retreat and Workshop
Date: January, 2017
Description:
To help current graduate students of the SPIE RIT Chapter develop more refined techniques in technical writing, we will host a student organized writing retreat to take place at an off-campus location where the students can avoid daily distractions and focus on writing. These students will dramatically improve the quality of a current piece of technical writing, such as a journal article, proceeding, proposal, or thesis/dissertation, while building meaningful relationships with their peers. The work will be guided by a few experts, faculty, and professional writers, as well as through peer review. The students will also be required to attend a half-day workshop on effective writing and editing techniques held at RIT prior to the retreat. Funding for this event will be supported by the Chester F. Carlson Center for Imaging Science at RIT.
Expected total: $2000
SPIE contribution: $0

Monthly Happy Hour
Date: Second Thursday of every month
Description:
The chapter will continue to promote social networking between graduate students across the RIT campus through this monthly gathering. No chapter funds will be spent for this event.
Expected total: $0
SPIE contribution: $0

5. Finances

<table>
<thead>
<tr>
<th>Check Date</th>
<th>Funding Source</th>
<th>Comment</th>
<th>Amount (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/6/2015</td>
<td>Remaining from last term</td>
<td>1057.95</td>
<td></td>
</tr>
<tr>
<td>4/8/2016</td>
<td>SPIE Reimbursement</td>
<td>Lunch with president elect Glenn Boreman</td>
<td>99.55</td>
</tr>
<tr>
<td>11/12/2015</td>
<td>OSA Excellence Prize</td>
<td>250.00</td>
<td></td>
</tr>
<tr>
<td>11/12/2015</td>
<td>OSA Chapter Management Grant</td>
<td>300.00</td>
<td></td>
</tr>
<tr>
<td>1/21/2016</td>
<td>OSA Centennial Grant</td>
<td>BatCam outreach project</td>
<td>1600.00</td>
</tr>
<tr>
<td>1/20/2016</td>
<td>RIT Center for Imaging Science Microgrant</td>
<td>Writing Retreat and Workshop</td>
<td>1652.81</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td></td>
<td>4807.50</td>
</tr>
<tr>
<td>Date</td>
<td>Event</td>
<td>Sub-Event</td>
<td>Amount (USD)</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------</td>
<td>-----------</td>
<td>--------------</td>
</tr>
<tr>
<td>4/15/2015</td>
<td>Lunch with Dirk Fabian</td>
<td></td>
<td>8.49</td>
</tr>
<tr>
<td>5/6/2015</td>
<td>Dinner with Chris Dainty</td>
<td></td>
<td>123.78</td>
</tr>
<tr>
<td>10/14/2015</td>
<td>Philip Stahl visit</td>
<td>Lunch</td>
<td>33.47</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dinner</td>
<td>118.00</td>
</tr>
<tr>
<td>11/6/2015</td>
<td>Student Talk Competition</td>
<td>Graduate</td>
<td>100</td>
</tr>
<tr>
<td>11/13/2015</td>
<td>Student Talk Competition</td>
<td>Undergraduate</td>
<td>100</td>
</tr>
<tr>
<td>12/10/2015</td>
<td>Holiday Party</td>
<td></td>
<td>198.28</td>
</tr>
<tr>
<td>12/11/2015</td>
<td>Officer Dinner</td>
<td></td>
<td>250.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>78.57</td>
</tr>
<tr>
<td>2016</td>
<td>Batcam Purchase</td>
<td></td>
<td>128.54</td>
</tr>
<tr>
<td></td>
<td>Supplies for Student Camera Lesson</td>
<td></td>
<td>310.09</td>
</tr>
<tr>
<td>1/15/2016</td>
<td>Writing Workshop</td>
<td>Lunch</td>
<td>81.28</td>
</tr>
<tr>
<td>1/18/2016</td>
<td>Writing Retreat</td>
<td>Lodging</td>
<td>925.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Food</td>
<td>441.81</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ski Trip</td>
<td>286.00</td>
</tr>
<tr>
<td>2/29/2016</td>
<td>Publishing Ethics</td>
<td>Coffee and Bagels</td>
<td>100.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>16.00</td>
</tr>
<tr>
<td>3/22/2016</td>
<td>Lunch with Glenn Boreman</td>
<td></td>
<td>99.55</td>
</tr>
<tr>
<td>3/13/2016</td>
<td>RMSC Supplies</td>
<td></td>
<td>11.40</td>
</tr>
<tr>
<td>4/15/2016</td>
<td>Joint Event with U of R</td>
<td>LaserTron</td>
<td>253.00</td>
</tr>
</tbody>
</table>

**TOTAL** 3654.77
6. Additional Information

Chapter Website: https://sites.google.com/a/g.rit.edu/spie-student-chapter-at-rit/

Chapter Facebook Page: https://www.facebook.com/groups/100489154274/

Chapter Twitter Account: https://twitter.com/spieosa_rit

Chapter Instagram: https://www.instagram.com/spieosa_rit/