

SPIE



Student Chapter

Rose-Hulman Institute of Technology

2013-2014 SPIE Annual Report

Institution: Rose-Hulman Institute of Technology

Department: Physics and Optical Engineering

Mailing Address: 5500 Wabash Avenue
Terre Haute, IN United States
47803

Phone: (1) 812-877-8080

Website: <http://www.rose-hulman.edu>

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1.0 STUDENT MEMBER ROSTER

1.1 Elected Officer Roster

Officer/Name	Year	Major	Contact Information
 <p>President Evan Hale</p>	Senior	B.S. Optical Engineering	haleer@rose-hulman.edu 317-374-3344
 <p>Vice-President Grant Brodrik</p>	Senior	B.S. Optical Engineering	brodnigm@rose-hulman.edu 330-635-6786
 <p>Treasurer Evan Hale</p>	Senior	B.S. Optical Engineering	haleer@rose-hulman.edu 317-374-3344
 <p>Secretary Grant Brodrik</p>	Senior	B.S. Optical Engineering	brodnigm@rose-hulman.edu 330-635-6786

1.2 All Members Roster

Name	Year	Major	Contact Information
Grant Brodnik	Senior	B.S. Optical Engineering	brodnigm@rose-hulman.edu
Melinda Buckrop	Freshman	B.S. Chemical Engineering	buckromel@rose-hulman.edu
Shelby Hacker	Senior	B.S. Engineering Physics	hackersa@rose-hulman.edu
Evan Hale	Senior	B.S. Optical Engineering	haleer@rose-hulman.edu
Ting Hao	Graduate Student	M.S. Optical Engineering	haot@rose-hulman.edu
Gavin West	Sophomore	B.S. Physics	westgn@rose-hulman.edu
Alex Wroten	Freshman	B.S. Engineering Physics	wrotenaj@rose-hulman.edu

2.0 2012-2013 EVENTS

2.1 James Webb Space Telescope Presentation from Jonathan Arenberg

Back in the spring of 2013 Dr. Jonathan Arenberg, chief systems engineer for the James Webb Space Telescope for Northrop Grumman Aerospace Systems, visited Rose-Hulman and presented details of the new James Webb Space Telescope to the PHOE faculty and members of the SPIE chapter.



2.2 Blue Key Youth Science Day

Back in the spring of 2013 the SPIE members participated in Rose-Hulman's Youth Science Day. This is an outreach education field trip for the local elementary Vigo County schools hosted by Rose-Hulman's Blue Key Honor Society. Many student clubs present a short five minute education demonstration about the particular science related to their club.

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The SPIE chapter presented three demos to the kids involving holography, polarization, and optical illusions. Professors donated several holograms of objects like a face, statue, and dollar bill for kids to look at under the supervision of an SPIE officer. The kids were also allowed to play with bubble wrap in a polarization box that showed thin film colors based on applied stress and strain. Finally, the students were allowed to look at optical illusion pictures donated by faculty. At each of these demonstrations an SPIE member was there to give a short description of the optical sciences.

3.0 PLANS FOR 2014-2015 ACADEMIC YEAR

3.1 Fall student call out meeting and 2014-2015 officer elections

In order to bring the chapter in good standing, there will be an all student call out meeting planned for the next academic year's first or second week of class Sept. 9th or Sept 16th. The goal of this meeting is to obtain at least the required 10 members for good standing and elect the officers for the academic year.

Next, the newly elected officers will meet that Thursday Sept. 11th or 18th and will review their officer responsibilities and the planned events for the academic year. Now they will be able to make any necessary event and scheduling changes.

In order to educate the new officers on duties, good standing requirements, grant funding and annual reporting they will be shown the chapter management sections from the SPIE website. (<http://spie.org/x1744.xml>)

3.2 Future all member quarterly meetings

In order to maintain an active and connected chapter (and to prevent future chapter falling outs) the club will try to maintain at least two meetings per quarter. These meetings will be attempted after returning from a quarter or half term break (first or second week and sixth or seventh week). These times were chosen as expected low course load times, but will be scheduled ultimately by the current SPIE officers.

In order to make recruiting year round, the meetings will be open to all of campus. The last meeting of the spring quarter will have new officer elections and old officers will transition accordingly.

3.3 Fall student social activities Sept. 4th – Nov. 20th

3.3.1 Fall meet and greet picnic

The SPIE chapter will work with the PHOE department and physics club to organize/fund a picnic in the Rose-Hulman quad to meet new students and members. Possible dates are Sept 19th, 26th, or Nov. 10th and 17th. Students will be encouraged to build friendships and outreach to other department students.

3.3.2 Fall SPIE movie night

A movie night will be planned for some night by the officers to improve student friendships. A classroom will be reserved and snacks will be provided.

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3.4 Dr. Philip Stahl President of SPIE Rose-Hulman Visit

Dr. Philip Stahl, a distinguished alumnus of Rose-Hulman, was invited to come to Rose-Hulman's Homecoming October 2nd-3rd, which is also the 30th year anniversary of optics at the school. Here he will be able to meet with student members, faculty, and alumni about his work. We also hope that he will be able to participate in a panel discussion run by the PHOE department faculty.

3.4.1 Dr. Philip Stahl Invitation letter



March 12, 2014

Dr. H. Philip Stahl
President SPIE
NASA Marshall Space Flight Center
Huntsville AL 35812

Dear Dr. Stahl,

It is with great pleasure that I extend an invitation for you to visit Rose-Hulman Institute of Technology on October 2nd-3rd, 2014 and meet the members of our SPIE student chapter. As you know, 2015 is the International Year of Light and 2014 is the 30th Anniversary of the optics program at Rose-Hulman. Therefore, the SPIE chapter along with the Physics and Optical Engineering Department are planning a series of commemorative events for the academic year 2014-15.

We hope you can find the time to visit us, and be able to give a talk or be part of a panel discussion. However, please feel free to suggest the scope of your participation as you wish.

We look forward to having you as part of our celebration of optics at Rose and hearing from you soon.

Sincerely,

Evan R. Hale
(haleer@rose-hulman.edu)

President
SPIE Student Chapter, RHIT

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3.5 Ms. Anna Weber Newport Optics Product Manager

Ms. Anna Weber, Optics Product Manager from Newport, was invited to present to the SPIE chapter between Sept. 15th – Dec. 19th about optical specifications and how to specify optics for particular applications. After presenting to the whole chapter, the SPIE students will take her out to dinner to show her the local city of Terre Haute.

3.5.1 Ms. Anna Wang Invitation Letter



May 22, 2014

Ms. Anna Wang
Optics Product Manager
Newport Corporation
Irvine, CA 92606

Dear Ms. Wang,

It is with great pleasure that I extend an invitation for you to visit Rose-Hulman Institute of Technology to meet the members of our SPIE student chapter and faculty. We look forward to you giving a technical talk. Year 2015 is the International Year of Light and 2014 is the 30th Anniversary of the optics program at Rose-Hulman. Therefore, the SPIE chapter along with the Physics and Optical Engineering Department are planning a series of commemorative events for the academic year 2014-15 and would enjoy your participation.

The best time for scheduling your visit will be between Sep 15th (classes at RHIT start Sep 4th) and Dec 19th (start of winter recess). So, please feel free to suggest a date for your visit that best fits your schedule.

We look forward to your visit to learn about optical specifications and how to specify optics for particular applications.

Sincerely,

Evan R. Hale
(haleer@rose-hulman.edu)
President
SPIE Student Chapter, RHIT

Prof. Sergio Granieri
(granieri@rose-hulman.edu)
Chapter adviser

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3.6 Winter quarter student social activities Dec. 1st- Feb 26th

3.6.1 Winter SPIE movie night

A movie night will be planned for some night by the officers to improve student friendships. A classroom will be reserved and snacks will be provided.

3.7 Blue Key Youth Science Day Spring 2015

The SPIE chapter will try to participate in Blue Key's YSD depending on the announced date. We hope to provide the same demonstrations as described in 2.2.

3.8 Spring quarter student social activities March 9th – May 29th

3.8.1 Spring goodbye picnic

The SPIE chapter will work with the PHOE department and physics club to organize/fund a picnic in the Rose-Hulman quad to say goodbye to fellow members for the summer and graduation. Old student SPIE officers will be acknowledged for their service.

3.8.2 Spring SPIE movie night

A movie night will be planned for some night by the officers to improve student friendships. A classroom will be reserved and snacks will be provided.