Executive Summary:
Baylor university SPIE student chapter was founded in the August of 2017 with the purpose to promote the discipline of Optical Science and Engineering through the organized effort of the group in study, research, and discussion, as well as to disseminate knowledge of the field of Optical Engineering; and to further the professional development of the students. This year we organized the first event held in collaboration with a community partner, the Mayborn Museum. The event was a success garnering interest from large crowd of museum patrons. Our chapter faces challenges in fund raising and recruitment but with focused efforts and careful planning, we envision the chapter to continue to thrive.

Contact Information:
For general questions about our chapter, please email our chapter advisor, Howard Lee, at Howard_Lee@baylor.edu
Facebook Page: https://www.facebook.com/groups/1961315544110602/
Baylor Connect Contact: https://baylor.campuslabs.com/engage/organization/baylor-university-spie-student-chapter

2018 - 2019 Officer Listing:
Catherine Arndt
President
Catherine_Arndt@baylor.edu
Khant Minn
Vice President
Khant_Minn@baylor.edu
Indra-Mani Ghimire
Secretary
Indra_Ghimire@baylor.edu

Sudip Gurung
Treasurer
Sudip_Gurung@baylor.edu

**2019 – 2020 Officer Listing:**
Khant Minn
President
Khant_Minn@baylor.edu

Sudip Gurung
Vice President
Sudip_Gurung@baylor.edu

Md Kazi Rokunuzzaman
Secretary
Mdkazi_Rokunuzzaman@baylor.edu

Indra-Mani Ghimire
Treasurer
Indra_Ghimire@baylor.edu

**Student and Community Membership**
At the time of this report, there are 10 student members affiliated to the Baylor Univ. Chapter

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Expected Grad Month/Year</th>
<th>SPIE Membership Expiration Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jingyi Yang</td>
<td><a href="mailto:Jingyi_Yang@baylor.edu">Jingyi_Yang@baylor.edu</a></td>
<td>12/2020</td>
<td>22 Dec 2019</td>
</tr>
<tr>
<td>Khant Minn</td>
<td><a href="mailto:Khant_Minn@baylor.edu">Khant_Minn@baylor.edu</a></td>
<td>12/2020</td>
<td>5 Sep 2020</td>
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<tr>
<td>Rabindra Khadka</td>
<td><a href="mailto:rabindra_khadka1@baylor.edu">rabindra_khadka1@baylor.edu</a></td>
<td>05/2024</td>
<td>13 Sep 2020</td>
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<tr>
<td>Syed Mahedi Hasan</td>
<td><a href="mailto:syed_hasan1@baylor.edu">syed_hasan1@baylor.edu</a></td>
<td>05/2024</td>
<td>11 Oct 2020</td>
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<tr>
<td>Md Kazi Rokunuzzaman</td>
<td><a href="mailto:Mdkazi_Rokunuzzaman@baylor.edu">Mdkazi_Rokunuzzaman@baylor.edu</a></td>
<td>05/2023</td>
<td>8 Sep 2020</td>
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<tr>
<td>Michael Schell</td>
<td><a href="mailto:Michael_Schell1@baylor.edu">Michael_Schell1@baylor.edu</a></td>
<td>08/2020</td>
<td>9 Sep 2020</td>
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<tr>
<td>Jinmin Kim</td>
<td><a href="mailto:CatherineKim_Kim1@baylor.edu">CatherineKim_Kim1@baylor.edu</a></td>
<td>05/2021</td>
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<tr>
<td>Indra Ghimire</td>
<td><a href="mailto:Indra_Ghimire@baylor.edu">Indra_Ghimire@baylor.edu</a></td>
<td>12/2020</td>
<td>5 Sep 2020</td>
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<td>Sudip J. Gurung</td>
<td><a href="mailto:Sudip_Gurung@baylor.edu">Sudip_Gurung@baylor.edu</a></td>
<td>05/2021</td>
<td>6 Sep 2020</td>
</tr>
<tr>
<td>Andrew Zazueta</td>
<td><a href="mailto:Andrew_Zazueta@baylor.edu">Andrew_Zazueta@baylor.edu</a></td>
<td>05/2021</td>
<td>9 Sep 2020</td>
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**Activities Report**

**Chapter Meetings**
Organizer: Chapter Officers
Location: BSB Room E353R
Participants: 10 students
Cost: $45 (food and drinks)
We had three meetings where we welcomed new members to the chapter, planned in details about the activities that the chapter is going to organize and brainstormed how we can expand the membership, all while enjoying delicious pizza and soft drinks.
Email Blasts
In addition to informing our chapter members about SPIE, we email them regarding opportunities to attend SPIE conference, scholarship, contest etc. Furthermore, we have encouraged our members to apply for the scholarships and travel grants offered by SPIE.

Graduate and Undergraduate colloquium
Organizer: Baylor Physics Department
Location: BSB Room E125
Participants: 25 (students and professors)
Cost: none
Many of our members presented their research at the graduate colloquium sponsored by Baylor University. Our newly elected Vice-president, Sudip, got the third place for graduate physics colloquium “best presentation award” in Baylor.

Officer training in Optics and Photonics Conference
In August 2019, Sudip represented Baylor University SPIE Student Chapter to attend the Student Leadership Workshop and the Optics and Photonics Conference in San Diego, USA. After the conference, Sudip shared his learning experiences at the workshop with the rest of the chapter over dinner. (pic: group photo of student leaders at the conference)

Physics Bowl
Organizer: Chapter officers, Baylor Physics department and Society and Physics Students
Location: BSB Room E231 and E305
Participants: 12 (SPIE members, students, and teachers)
Cost: $35.75
We partnered with the Society of Physics Students at Baylor University, hosted a physics tournament in February for high school students around Texas. This year we were honored to host two teams from around the state. The teams compete in three areas regarding the material covered in a typical Physics I or II course, a written test composed of 20 questions, a practical experiment to solve a posed problem, and several rounds of Kahoot-it style trivia. Our chapter members led the participating students in hands on activities related to optics such as measuring the energy spectrum of elements using diffraction gratings, investigating how magnetic field affect the trajectory of electron beams, etc. Michael, one of the chapter member also gave a brief presentation of the nano-optics research projects that our members are involved in.

Habitat for Humanity
Each semester our chapter (in March this year) along with professor from our department, Dr. Wilcox, participate in a Habitat for Humanity work day. We were involved in caulking, painting, nailing, and enjoyed the outdoors.

International Day of Light celebrations at the Mayborn Science Museum
Organizer: Chapter Officers and Mayborn Museum Volunteer Engagement Program
Location: Mayborn Museum, Waco, TX
Participants: 10 members and more than 100 museum visitors of ages ranging from toddlers to elderlies.
Cost: $50 (Transportation and demo setup)
In May of 2019, our chapter partnered with Mayborn Science Museum in Waco, Tx., and organized the International Day of Light celebrations. We interacted with the museum visitor and showcased various hands-on demonstrations including light-guiding streams of water, holograms, plasma light sabers and laser gun. This project is our chapter’s initiative for community involvement and partnership with other educational organizations in the community. (Pics: our chapter members and museum visitors having a blast.)

Social Media (Facebook Group Page)
For communication within our group members and potential members, in addition to group emails, we also set up a facebook group to post announcements and news for our group members. We have thirty-one subscribers for our facebook group page. We also encourage subscribers to join us to get involved into the optical demo and volunteer work. (Pic: Screen shot for facebook group page of our chapter.)

https://www.facebook.com/groups/1961315544110602/about/

Treasurer’s Report

<table>
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<tr>
<th>No.</th>
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Conclusions and Recommendations
We had fun and educational programs involving the members of the local community and schools. We had challenges in recruiting new members due to the small size of the university but we have thrived. We plan to have the new activities next year such as visiting lecturer program, education outreach activities at a local high school and hosting lab tours at the university.