Executive Summary:

The SPIE Student Chapter at National Taiwan Ocean University (NTOU) was established on January 27th, 2012. Our chapter activities include SPIE visiting lectures, invited presentations, field trips, and attending international conference.

The purpose of the NTOU Chapter is to support optics students by holding various valuable academic activities and providing opportunities for participating in events on- and off-campus.
This year, one of our Students shared his experience of studying in America to chapter members. It makes our members knowing more about keeping up with international quality and improving their own abilities.

One of the biggest challenges that our chapter faced this year has been diversity of activities. Last summer we planned to hold a promotion event during the annual Electrical and Optics Engineering camp for college freshman. Unfortunately, the camp was cancelled due to the typhoon. It makes our activities more “static” than usual. Therefore, we will make sure our students have better experience next year.

Contact Information:

For general questions about our chapter, please email our chapter advisor, Lena Chang, at lenachang@mail.ntou.edu.tw.

2018 - 2019 Officer Listing:

Yi-Ting Chen  
President (Communications Officer)  
2nd Year Master’s Student  
loat2007@gmail.com

Ming-Hung Hung  
Vice-President  
2nd Year Master’s Student  
masonhung@ntou.edu.tw

Chia-Jung Tsao  
Secretary  
2nd Year Master’s Student  
zxcv45623@gmail.com

Yi-An Lin  
Treasurer  
2nd Year Master’s Student  
yian7290@gmail.com

2019 – 2020 Officer Listing:

Ching-Yu Chen  
President (Communications Officer)  
1st Year Master’s Student  
linkchen0213@gmail.com
Guan-Ting Tu
Vice-President
1st Year Master’s Student
shushu011230@gmail.com

Kuan-Hsien Kuo
Secretary
1st Year Master’s Student
a0939990751@gmail.com

Cheng-Ching Shih
Treasurer
1st Year Master’s Student
ppotterr025@gmail.com
Student and Community Membership

At the time of this report, there are 20 student members affiliated to the NTOU. Chapter and there are currently about 50 students involved in the NTOU. Optics Alliance.

<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>Tao Lee</td>
<td><a href="mailto:yagllsmall@gmail.com">yagllsmall@gmail.com</a></td>
<td>June 2020</td>
<td>11/7/2020</td>
</tr>
<tr>
<td>Jack Lin</td>
<td><a href="mailto:yagllsmall@gmail.com">yagllsmall@gmail.com</a></td>
<td>June 2020</td>
<td>11/7/2020</td>
</tr>
<tr>
<td>Joseph Hsieh</td>
<td><a href="mailto:yagllsmall@gmail.com">yagllsmall@gmail.com</a></td>
<td>June 2020</td>
<td>11/7/2020</td>
</tr>
<tr>
<td>Hsin-Jou Huang</td>
<td><a href="mailto:jouyu9126@gmail.com">jouyu9126@gmail.com</a></td>
<td>June 2021</td>
<td>11/7/2020</td>
</tr>
<tr>
<td>Ching-Yu Chen</td>
<td><a href="mailto:linkchen0213@gmail.com">linkchen0213@gmail.com</a></td>
<td>June 2021</td>
<td>11/7/2020</td>
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<tr>
<td>Shin-Ru Chang</td>
<td><a href="mailto:jessie84925@icloud.com">jessie84925@icloud.com</a></td>
<td>June 2021</td>
<td>11/7/2020</td>
</tr>
<tr>
<td>Wei-Yeh Chang</td>
<td><a href="mailto:10867005@email.ntou.edu.tw">10867005@email.ntou.edu.tw</a></td>
<td>June 2021</td>
<td>11/7/2020</td>
</tr>
<tr>
<td>Wei-Chieh Liu</td>
<td><a href="mailto:Phillip6912@gmail.com">Phillip6912@gmail.com</a></td>
<td>June 2021</td>
<td>11/7/2020</td>
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<tr>
<td>Kuan-Hsien Kuo</td>
<td><a href="mailto:a0939990751@gmail.com">a0939990751@gmail.com</a></td>
<td>June 2021</td>
<td>11/7/2020</td>
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<tr>
<td>Cheng-Ching Shih</td>
<td><a href="mailto:ppotterr025@gmail.com">ppotterr025@gmail.com</a></td>
<td>June 2021</td>
<td>11/7/2020</td>
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<tr>
<td>Yu-Hsien Liao</td>
<td><a href="mailto:steveliao1688@gmail.com">steveliao1688@gmail.com</a></td>
<td>June 2021</td>
<td>11/7/2020</td>
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<tr>
<td>Tzu-Hsi Kuo</td>
<td><a href="mailto:yes851113@gmail.com">yes851113@gmail.com</a></td>
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<td>Cheng-Yang Wu</td>
<td><a href="mailto:a8523112@gmail.com">a8523112@gmail.com</a></td>
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<td>Chin-Hung Lee</td>
<td><a href="mailto:jhi010123@gmail.com">jhi010123@gmail.com</a></td>
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<td>11/7/2020</td>
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<tr>
<td>Yu-Xiu Lin</td>
<td><a href="mailto:ggcc112137@gmail.com">ggcc112137@gmail.com</a></td>
<td>June 2021</td>
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<tr>
<td>Shih-Chun Huang</td>
<td><a href="mailto:shijun13@gmail.com">shijun13@gmail.com</a></td>
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<tr>
<td>Wei-Ting Chen</td>
<td><a href="mailto:frankzero010115@gmail.com">frankzero010115@gmail.com</a></td>
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<tr>
<td>Xiao-Xian Lin</td>
<td><a href="mailto:whps60500@gmail.com">whps60500@gmail.com</a></td>
<td>June 2021</td>
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<tr>
<td>Guan-Ting Tu</td>
<td><a href="mailto:shushu011230@gmail.com">shushu011230@gmail.com</a></td>
<td>June 2021</td>
<td>11/7/2020</td>
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<tr>
<td>Bing-Jun Zhang</td>
<td><a href="mailto:woody19970717@gmail.com">woody19970717@gmail.com</a></td>
<td>June 2021</td>
<td>11/7/2020</td>
</tr>
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</table>
Activities Report

NCSIST Recruitment Orientation
Organizer: Yi-Ting Chen, President 2018~2019
Speaker: Teng-Fu Haung, National Chung-Shan Institute of Science & Technology
Date/Time/Location: May 6, 2019 from 12-13 pm in the Yanping Building, Room 822
Participants: 25 students (Including chapter members and students of the department.)
Cost: $103 (Box lunch)

Teng-Fu Haung, graduated from Nation Taiwan Ocean Univ., came back to school and gave us a chance to join NCSIST. This is the second time NCSIST has an orientation for our chapter. We discussed about the treatment, positions, and qualifications. It was a rare opportunity students could get such important information at the school. After that we knew more about how to enter the NCSIST and how to prepare ourselves for the future.
Study Abroad Experience Shares
Organizer: Yi-Ting Chen, President 2018~2019
Speaker: CHO CHIH HSUAN, Alumni of National Taiwan Ocean Univ. CNCE department
Date/Time/Location: May 23, 2019 from 12-13 pm in the Yanping Building, Room 822
Participants: 43 students (Including chapter members and students of the department.)
Cost: $143 (Box lunch)

This following part of is about Jhih-Syuan Chuo sharing an experience after studying abroad. He told us what to prepare and how to make it true. First, he introduced about the Northwestern university where he studied for 2 years. And then, he compared working in Taiwan with the United States. Finally, he told us to trust ourselves and did a right decision that we will not regret.
Student Chapter President Yi-Ting Chen attended the leadership workshop in San Diego

Organizer: Yi-Ting Chen, President 2018~2019
Speaker: Yi-Ting Chen, President 2018~2019
Date/Time/Location: September 26, 2019 from 12-13 pm in the Yanping Building, Room 822
Participants: 37 students (Including chapter members and students of the department.)
Cost: $105 (Pizza)

This part of report is the experience from Student Chapter Yi-Ting Chen who attended the student chapter leadership workshop in San Diego, US. He was really appreciated SPIE and the advisor for giving him opportunity to participate the leadership workshop in Sand Diego. He learned a lot from exhibition about the optics and photonics from many companies in the hall. At last, he has a poster presentation as a speaker about the polarization science and remote sensing. Yi-Ting Chen hopes that he can bring some energy to our chapter and make our club smooth.
Chunghwa Telecom invited lecture
Organizer: Yi-Ting Chen, President 2018~2019
Speaker: Dr. 甘果碩, Chunghwa Telecom Senior engineer.
Date/Time/Location: October 25, 2019 from 4-5 pm in the Yanping Building, Room 820
Participants: 40 students (Including chapter members and students of the department.)
Cost: $51 (For Snacks and coffee.)

Today NTOU chapter invited a senior engineer from Chungwa Telecom, the largest telecommunications company in Taiwan, for a lecture. The lecture started from history of communication because modern life is inseparable from internet. Dr. 甘果碩 told us requirement leads to innovation, such as Internet of Things, industry4.0, 5G NR, and information security. After this lecture, our members knew the strengths, threats, and opportunities of communications technology.
New officers election and member recruiting
Organizer: Yi-Ting Chen, President 2018~2019
Speaker: Yi-Ting Chen, President 2018~2019
Date/Time/Location: November 7, 2019 from 12-13 pm in the Yanping Building, Room 820
Participants: 24 students (Former officers and mostly chapter’s new member)
Cost: $102.20 (Pizza)

The most important event in this year! Former chapter officers did their job great and found new members and officers. Prof. Lena Chang told the new members how to run the NTOU chapter well and what responsibilities should we take. Some of them were very actively. It makes the election this year smooth.
Prof. Ikuo Yamamoto was invited to our chapter and gave us a presentation. What a great experience! The topic, Research and Development of Advanced Robotics, is sharing the contribution Nagasaki Univ. has made, projects they are working with, and the direction they would be in the future. Students had a great reaction especially for technique of making ROVs and robotic creatures.
**Chunghwa Telecom field trip**
Organizer: Ching-Yu Chen, President 2019~2020
**Date/Time/Location:** November 22, 2019 from 1-5 pm at Chunghwa Telecom northern-taiwan-business-group
**Participants:** 60 students (Including chapter members and students of the department.)
**Cost:** $195.40 (Transportation fee)

This day we had an annual visiting trip to Chunghwa Telecom (CWT). CWT has been cooperating with NTOU for several years. Many chapter members enter this company after they graduated. CWT showed us that our information, optical, and electrical Engineering technology can be used for agriculture, communication, health, retail, safety, and managing by a presentation. The most important thing is being innovative and creative.

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**SGS invited lecture**
Organizer: Ching-Yu Chen, President 2019~2020
**Speaker:** Robert Chang, Senior manager of SGS.
**Date/Time/Location:** November 29, 2019 from 1-5 pm in the Yanping Building, Room 820
**Participants:** 40 students (Including chapter members and students of the department.)
**Cost:** $40 (Snacks and giveaway)

Robert Chang, Senior manager of SGS wireless communication service department, was invited to give a lecture by our chapter. He is also an alumnus of NTOU. SGS is a large company providing various testing services. Mr. Chang briefly introduced Over-the-air (OTA) and Specific Absorption Rate (SAR) to our member. Both of them are connected to our lives and safety. After this lecture we know more about how the seniors give contribution to the society.
### Treasurer’s Report

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*Anticipated funding amounts based on chapter budget and last year’s costs/incomes.

### Conclusions and Recommendations

Next year, we’ll keep improving the diversity of our chapter, and holding various events like a series of lectures to increase the knowledge of optics, visiting related industry sites in the second half of the year, performing chapter officer election, and regular group meeting of SPIE NTOU Student Chapter. One NTOU chapter officer will apply “Student Travel Grants” to attended SPIE Student Leadership Workshop in 2020.