

Duke[®] OPTICA/SPIE.

Optical Student Chapter

Duke
UNIVERSITY

Duke Optical Student Chapter (DOSC)

Duke student organization interested in research in optics and photonics led by graduate students.



Hillel B. Price
President



Eunso Shin
Vice President



Melissa Wu
Secretary



Clare Cook
Treasurer



Julia Foust
Outreach Coordinator



George Funkenbusch
Events Coordinator

OPTICA | Formerly
OSA

SPIE. **STUDENT**
CHAPTER
DUKE
UNIVERSITY

Duke  **FITZPATRICK INSTITUTE**
for PHOTONICS

Why join DOSC??

- Influence optics/photonics courses at Duke
- Connect with professors + industry leaders
- Outreach opportunities
- Travel grant + professional org support
- FREE FOOD
- Too many reasons to list...

SPIE – Student Membership

Student Membership Price:

- 1- Year: \$20



Student Membership Benefits:

- Complimentary SPIE Journal of your choice
- Apply for scholarships worth \$2,000 to \$11,000
- Find a job through SPIE Career Center or job fairs at SPIE events
- Free online professional development courses
- 10 SPIE Digital Library downloads
- Receive up to 60% off SPIE courses at events
- Attend conferences specific to your technology area at a significant discount
- Publish fast with e-First Publishing
- Exclusive access to Member networking events
- SPIE Professional Magazine

Sign-Up Online at:

<https://spie.org/Membership/logincreate>

SPIE – Student Member Funding

By being a member of Duke's SPIE chapter, YOU get access to funding opportunities like...



Student Author Travel Grants to SPIE Meetings

- Range between \$250-\$500
- Reimbursement for travel expenses (airfare, ground, and/or hotel)
- MUST be a SPIE Student Member who is presenting at the meeting to apply
- Application is considered for MKS Instruments Research Excellence Award

SPIE Optics and Photonics Education Scholarships

- Range from \$3,000-\$11,000
- MUST be a SPIE Student Member enrolled in an optics, photonics, or related program (physics, E.E., etc) to apply
- Can apply per each degree you earn
- Become a member and apply this cycle!

...AND MORE!

SPIE – Chapter Grant Offerings

By being a member of Duke's SPIE chapter, YOU grant us access to funding opportunities like...



Student Chapter Annual Report & Activity Grant

- Range between \$500-\$1,500 to cover chapter activities
- Funds: Management, Career Preparation, Industry Connection, Outreach, & EDI Activities

Chapter Officer Travel Grant

- Includes free registration to Photonics West/Optics & Photonics, meals (\$50 per day for up to 7 days), Airfare, & Lodging

Others:

Outreach Grant

Visiting Lecturer Grant

International Day of Light Activity Grant

OPTICA | Formerly
OSA

Official Student Chapter

Travel

Networking

Career Resources

Grants

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OPTICA – Student Membership

Student Membership Benefits:

- **Career Services** - career training - [OSA Career Calibrator](#),
post resumes on [WORKinOPTICS.com](#)
OSA career centers
- **Prizes:** Identify exceptional papers, presentations, and research by OSA members
- **Grants:** Up to seven unique grants values up to **\$2000** awarded for attending meetings.
- **Scholarships:** The OSA Foundation awards over **\$24,000** through scholarships every year.
- **Early Career Fellowships:**
 - Milton and Rosalind Chang Pivoting Fellowship:**
\$50,000 Prize towards the betterment of the field and society outside of the traditional career paths
 - Thomas F. Deutsch Fellowship:**
One-year supported fellowship at the Massachusetts General Hospital Wellman Center for Photomedicine.
 - OSA Sponsored AAAS Science & Technology Policy Fellowship:**
One-year government fellowship working with members of congress/executive to develop S&T policy.



OPTICA – Chapter Benefits

Student Leadership Conference:

- Annual meeting for student chapters
- **350 student chapters** from over **60 countries**
- Includes travel, lodging, and meals
- Lodging and free registration to attend Frontiers in Optics



International OSA Network of Students:

- Student chapter members organize regional meetings focused on technical and professional development content as well as networking with peers and luminaries.

Others:

OSA Ambassadors: early-career position, travel the world for OSA

Additional Funding: Chapter Prizes, Outreach Events, Visiting Lecturers, Int. Day of Light Grants

FREE FOOD and more!

Monthly breakfast on the Last Friday

- Volunteer to present a research poster
- Food, coffee, snacks, giveaways



Wednesday post-seminar lunches

- Look out for signups
- Make connections with distinguished professors



Community Outreach

Events

- Lasers, Lenses, and Light Day
- Outreach Days with Local Schools
- DukeREP demos
- FIP Symposium

Current Demos

- Mini-microscope
- Hologram glasses
- Peppergram

Have a K-12 Demo Idea for Outreach Events?

- Reach out to Julia Foust (julia.foust@duke.edu)



Community Outreach within FIP

Social Events: Information coming soon!

- Picnic at the Park
- Lake Day
- FIP/DOSC Evening Socials
 - Snack and Chat
 - Trivia Night
 - DOSC Holiday Potluck
- Need more ideas! Tell us what you want to do!

Social Media

- [Website](#)
- [Google Calendar](#)
- [LinkedIn](#)
- [Twitter](#)



DOSC + Academics

Photonics certificate

Requirements

- **For all certificate candidates:**
 - Complete four photonics courses from the approved course listing, of which one course must be a qualified "Introductory Survey Course." (See Certificate Course List)
 - Present research at a Fitzpatrick Institute Student Group meeting (includes FIP Friday Breakfast Poster Presentation).
 - Attend 1 semester of Optics and Photonics Seminar Series
BME 609/ ECE 549/ PHY 549
 - **For Ph.D. candidates:** Ensure at least one member of the FIP is on the student's Ph.D. dissertation committee.
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Offered course survey

- Feedback to faculty on desired courses



Certificate Program and
DOSC Faculty Contact:
Dr. Adam Wax



Thanks for coming!

Congrats to the new officer
board!