Duke OPTICA/SPIE. Optical Student Chapter



Duke Optical Student Chapter (DOSC)

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



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!

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

SPIE STUDENT CHAPTER

DUKE

NIVERSITY

Others:

Outreach Grant

Visiting Lecturer Grant

International Day of Light Activity Grant

Official Student Chapter

Career Resources

Grant



Trave

OPTICA | Formerly OSA

OPTICA – Student Membership

Student Membership Benefits:

 Career Services - career training - <u>OSA Career Calibrator</u>, post resumes on <u>WORKinOPTICS.com</u> 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

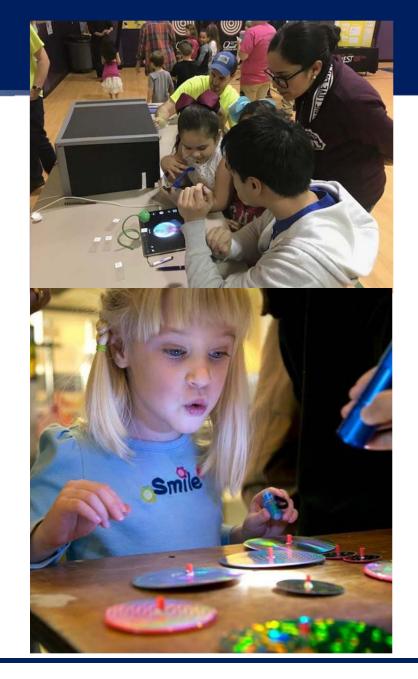
- Lasers, Lenses, and Light Day
- Outreach Days with Local Schools
- DukeREP demos
- FIP Symposium

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

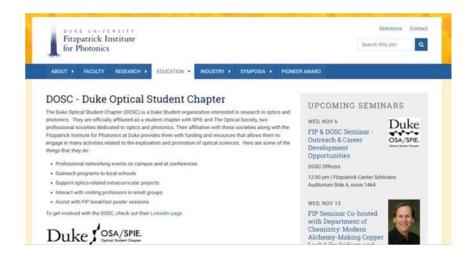
Social Events: Information coming soon!

- 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

- <u>Website</u>
- <u>Google Calendar</u>
- LinkedIn
- <u>Twitter</u>





DOSC + Academics

Photonics certificate

Requirements

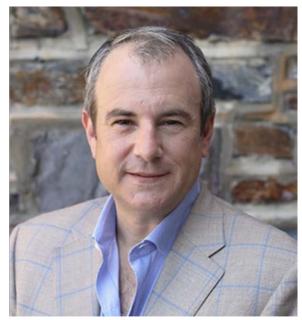
- For all certificate candidates:
 - Complete four photonics courses from the approved course listing, of which one course must be a qualified "Introductory Survey Course." (See Certificate Course List)
 - Present research at a Fitzpatrick Institute Student Group meeting (includes FIP Friday Breakfast 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.

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!