

GENERAL MEETING

Wed. Jan 29th 2025



APOMA is the focal point of American precision optics manufacturing collaboration, facilitating the ongoing exchange of ideas and expertise amongst our diverse membership base. By advancing workforce development, defining industry standards, and sharing process improvements and innovations, APOMA bolsters operational excellence throughout all aspects of optics manufacturing. Membership consists of fabricators, coaters, material scientists, engineers, designers, and educators; who share in the unified goal to **make light work** in the United States.





AGENDA

- Introduction
- Board Election
- Membership
- Financial Report
- 2024 Tech Workshop
- Guest Speakers

NIF Optics

DR TAYYAB SURATW

DR. TAYYAB SURATWALA

OEOSC PATRICK AUGINO

Workforce Development DR. ALEXIS VOGT



MEMBER

BOARD MEMBERS 2024 (beginning)



Lee Steneken President ESCO OPTICS



Travis Green
President-Elect
ALPINE RESEARCH OPTICS



Mike Mandina
Past-President

OPTIMAX SYSTEMS



Dave Mohring
Treasurer

OPTIPRO



Zach Hobbs Secretary SYDOR OPTICS



Dr. Alexis Vogt
Academic Member
MONROE COMMUNITY
COLLEGE



Michele Stolberg



Chris Russell
At-Large Member
UNIVERSAL PHOTONICS



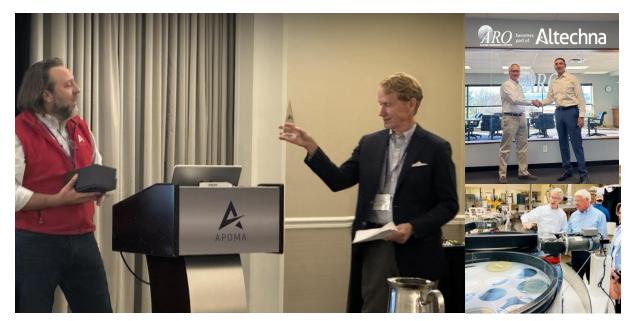
Timothy Kennedy
At-Large Member
EDMUND OPTICS



Mitzi Brennan At-Large Member



THANK YOU TRAVIS



A P O M A M E M B E R

VOTE

CANDIDATES - 2 AT-LARGE BOARD SEATS



Nicholas Bilis
OHARA



Bill Donovan
THORLABS



John Escolas

ESCOLAS OPTICS CONSULTING



Brian Myer

OPTIMAX



David O'Ryan
ECOCLEAN



David Shelton

AMERICOM

MEMBER

BOARD MEMBERS 2025 (current)



Zach Hobbs
President
sydor optics



Timothy Kennedy
President-Elect
EDMUND OPTICS



Lee Steneken
Past-President
ESCO OPTICS



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OPTIPRO



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UNIVERSAL PHOTONICS



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COLLEGE



Michele Stolberg Admin



Mitzi Brennan At-Large Member



Dave SheltonAt-Large Member **AMERICOM**



Brian Myer At-Large Member



Thank you for your support



THANKYOU, LEE



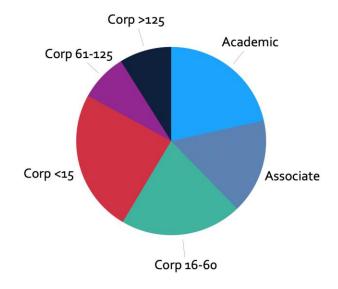
MEMBERSHIP



13%

135 members

Academic	29
Associate	22
Corporate <15	28
Corporate 16–60	33
Corporate 61–125	11
Corporate > 125	12



FINANCE REPORT

Statement of Activities
For The Year Ended
December 31, 2024

REVENUES AND OTHER SUPPORT	
Membership Dues Received	\$ 52,000.00
SPIE Optifab 2023 Sponsorship Proceeds	\$ 10,000.00
Workshop Sponsorships	
Workshop Gross Revenue	
Bank Sweep Interest	
TOTAL REVENUES AND OTHER SUPPORT	\$ 134,399.69
EXPENSES AND LOSSES	
Workshop Expenses	\$ 54,430.43
Management and General Expenses:	
Administration Assistance	
Dues and Licensing	
Tax & Accounting fees	. \$ 825.00
Bank Service Charge / Fees	\$ 3,560.00
PW General Mtg. 2024	
Intuit Qbook Fee	\$ 330.00
Intuit Tran Fee	6264264
Election Buddy Software	\$ 99.00
Web Site Maintenance	4
Postage & Supplies	401-01
3 "	\$ 18,024.61
Contributions \$ 5,000.00	
TOTAL EXPENSES AND LOSSES	\$ 77,455.04
CHANGE IN NET ASSETS	\$ 56,944.65
NET ASSETS, BEGINNING OF THE YEAR	\$ 323,581.26
NET ASSETS, END OF THE YEAR	\$ 380,525.91

BUDGET

2024 Proposed Budget vs. Actual

<u>ltem</u>	<u>Pro</u>	<u>Proposed</u>		<u>tual</u>
Postage, Supplies	\$	300.00	\$	217.00
Dues & Licensing	\$	3,500.00	\$	2,900.00
Tax & Accounting Fees	\$	950.00	\$	950.00
Web Site Maintenance	\$	2,000.00	\$	480.00
Administrative Assistance	\$	7,500.00	\$	5,970.00
Marketing & Advertising	\$	3,500.00	\$	-
Conventions (OptiFab/PW)	\$	4,000.00	\$	-
Contributions	\$	6,000.00	\$	5,000.00
Intuit Qbooks and Fees	\$	2,000.00	\$	3,973.61
Workshop	\$	4,500.00	\$	(5,494.57)
Total Proposed vs Actual	\$	34,250.00	\$	13,996.04

BUDGET

2025 Proposed Budget

<u>Item</u>	<u>Amount</u>	
Postage, Supplies	\$	300.00
Dues & Licensing	\$	3,500.00
Tax & Accounting Fees	\$	950.00
Web Site Maintenance	\$	2,000.00
Marketing & Advertising	\$	3,500.00
Administrative Service	\$	8,500.00
Optifab	\$	2,500.00
PW General Meeting	\$	2,500.00
Intuit Quick books	\$	3,500.00
Member OutReach Contract Consultant	\$	25,000.00
Budgeted Expenses	\$	59,250.00



APOMA BREAK OUT ROOM

Available to APOMA members & guests only

- Meeting space
- Perfect for members not exhibiting
- WiFi access
- Connect with other APOMA members

LOCATION

Room 6o in South Lower Mezzanine Tuesday – Thursday

Located off the South hall lobby

2025 GOALS

- Enhance the value proposition for current membership
 - Strategic planning for future growth
- Co-organize Optifab 2025 in Rochester with SPIE
- Solicit ideas for 2026 Tech Workshop

WELCOME Yvette Pagano

New independent consultant

Yvette Pagano 585-730-9196 Pagano.Yvette@gmail.com



Focus For New Members

- New Business
- Skilled Workforce
- Networking

- Conferences
- Government Advocacy

STEP ONE- LET'S CHAT

I don't know what I don't know

- •My first order of business- member survey
- •How is APOMA working for you?
- •Goal is to have one on one conversations with you, the APOMA member
- •Please set up an appointment or find me afterwards
- Best way to have a great idea is to have lots of ideas
- •Survey results and recommendations to be shared with board and shape
- 1 year and 5-year strategic plans



IN MEMORIAM



Walter Czajkowski

1949 – 2024

He never gave up but his heart finally gave in after a long battle with cancer. Walt positively impacted the field of optics and made lifelong impressions on his coworkers and colleagues, most of whom he considered friends.





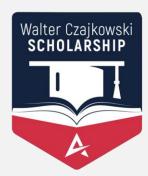
RAUSCH+LOMB





Throughout his 45-year optics engineering career, Walt was devoted to the advancement of the optics industry and those who embraced it. He was actively involved in promoting optical standards from early on and served as a manufacturing consultant for the American Precision Optics Manufacturers Association (APOMA) from 1996 until 2016, where he continued to help shape the trajectory of the industry.

He will be missed.



Scholarship forthcoming to commemorate Walt's spirit and dedication to the optics industry

With collaboration from SPIE

TECH WORKSHOP

Oct 2024 | New Orleans



Opening reception

18 presentations (2-days)

Rooftop cocktail hour

LIGO Tour

88 attendees 36 companies/ organizations

Fabulous NOLA nightlife and cuisine







GUEST SPEAKERS

NIF Optics

Dr. Tayyab Suratwala

Program Director for Optics and Materials Science & Technology (OMST) in the NIF & Photon Science Directorate Lawrence Livermore National Laboratory

OEOSC

Patrick Augino

Optimax, Executive Director of OEOSC

OEOSC Hosted ISO Meeting in 2024

Meeting hosted by NIST Boulder, CO

- October 8th, thru October 11th
- SC1 Fundamental Standards
- SC₃ Optical Materials
- SC₅ Endoscopes and Microscopes
- Overall 75 attendees
- Six International Standards Bodies represented
 - ANSI /OEOSC (US)
 - BIS (India)
 - JISC (Japan)
 - SAC (China)
 - ISO (Germany)





Standards Update

- SC1 Fundamental Standards
- ISO 10110-11 (Default tolerances) is expected to be published in early 2025
- ISO 10110-6 (Centering in 10110) is advancing Final Draft (FDIS) may published in 2025
- ISO 10110-5/ISO 14999-4 (surface error & testing) is progressing to Draft (DIS)
- ISO 9358 (Stray Light): Currently in revision
- ISO 9022 (Environmental Testing) Currently in revision
 - Many standards in this series
- ISO 10110-1 (General 10110): scheduled to begin revision in 2025
- ISO 10110-9 (Coatings in 10110): revisions being proposed by the US and are expected to start in 2025
- SC₃ Optical Standards
- ISO 9211-5, 9211-6, and 9211-8 (standard coatings) currently in revision
- SC₅ Endoscopes & Microscopes
- ISO 8600-1 (Endoscopes General) To be published in early 2025
- ISO 10934 (Microscopes Vocabulary) To be published in early 2025
- Many standards in revision in 2025

Call for Experts

- Special Thanks to our project leaders:
- Jennifer Michels (RedHead Optical)
- Ray Williamson (Ray Williamson Consulting)
- Dave Aikens (Savvy Optics)
- Paul Murphy (QED)
- Zach Strobehn (CMM Optic)
- Eric Herman (Synopsys)
- OEOSC is seeking experts to assist with reviewing and providing feedback on upcoming standards revisions
- Environmental Standards (ISO 9022 series) The goal to revise and improve usability and functionally
- Coatings (ISO 9211 series) Several standards are already under revision, and input from US users, particularly coating manufacturers, is needed
- Joining OEOSC <u>www.oeosc.org</u>
- Membership benefits include direct input on current and future standards, interactions with experts in your field, flexible time commitments, and discounts on ISO Standards purchases.

Workforce Development

Alexis Vogt, PhD

OPTICS MANUFACTURING TECHNICIAN APPRENTICESHIP

Benefits to Employers

- Highly skilled workforce
- Increased employee retention
- Improved attendance, productivity, and quality

Benefits to Apprentices

- Long-term career opportunities
- Workplace relevant skills
- Industry recognized credentials
- Earn academic credit



ROI **\$1.47** for every **\$1** invested from increased productivity, reduced waste, and increased innovation

Every \$1 invested in apprenticeships leads to a public return of approximately \$28 in benefits

https://nationalapprenticeship.org/roi

OPTICS MANUFACTURING TECHNICIAN APPRENTICESHIP

Current State of MCC Apprenticeship Engagement

- 13 approved company sponsors of registered optics apprenticeships, across 7 states
- 13 active optics apprentices at 6 companies in 4 states
- 19 apprentices (5 female) have completed registered optics apprenticeships

MCC is now engaged in registered apprenticeship programs for 3 different optics occupations with a 4th program, for optical coating technicians, in the planning phase.

- Precision Optics Manufacturing Technician (MD, NY)
- Optics Manufacturing Technician (US)
- Precision Imaging/Nanolithography Technician (NY)

APPRENTICESHIP PARTNERS

Structured earn & learn program: on the job training + related technical instruction



























STEPS TO DEVELOP AN OMT APPRENTICESHIP













To get started contact our apprenticeship coordinators!

Bob Lasch <u>rlasch@monroecc.edu</u>

Marissa Haddock <u>mhaddock@monroecc.edu</u>





OPTICS MANUFACTURING TECHNICIAN APPRENTICESHIP

- Structured "earn and learn" solution
- 2,000 hours/year
- Customizable program to meet your manufacturing process
- Related technical instruction
- Minimum 144 hours/year
- Apprentices work in various departments learning manufacturing processes





UPCOMING EVENTS

April 15-17

SPIE DEFENSE+
COMMERCIAL
SENSING

Gaylord Palms Resort and Convention Center

Kissimmee, FL

July 17



October 21-23

SPIE.OPTIFAB

Rochester Riverside Convention Center

Rochester, NY

