



AMERICAN
PRECISION OPTICS
MANUFACTURERS
ASSOCIATION

GENERAL MEETING

Feb 1st 2023



WHO WE ARE

APOMA represents a broad constituency of precision optics manufacturers and the supporting industry, along with academic associates whose mutual interest is the advancement and expansion of optics manufacturing and technology. APOMA supports the common interests of its members, far more important than the small differences that have for too long fragmented the industry.



Proactively working with our government advocate for the optics and photonics industry



APOMA provides the connection point for all precision optics manufacturers and the supporting fields.



Keep up to date with the latest technology & techniques with technical workshops



WELCOME

AGENDA

- Introduction
- Presidential Transfer
- Board Election
- Membership
- Financial Report
- Workshop Review
- Guest Speakers
 - Workforce Development
DR. ALEXIS VOGT
 - Fusion Ignition
TAYYAB SURATWALA
 - CHIPS and Science Act
DR. KENT ROCHFORD



THANK YOU MIKE





BOARD MEMBERS 2023

[recommended slate changes]



Lee Steneken
President

ESCO OPTICS



Travis Green
President-Elect

ALPINE RESEARCH
OPTICS/PFG OPTICS



Mike Mandina
Past-President

OPTIMAX SYSTEMS



Dave Mohring
Treasurer

OPTIPRO



Zach Hobbs
Secretary

SYDOR OPTICS



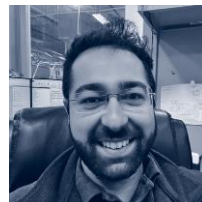
Dr. Alexis Vogt
Academic Member

MONROE COMMUNITY
COLLEGE



Shai Shafir
At-Large Member

CORNING



Navid Entezarian
At-Large Member

THORLABS



Justin Mahanna
At-Large Member

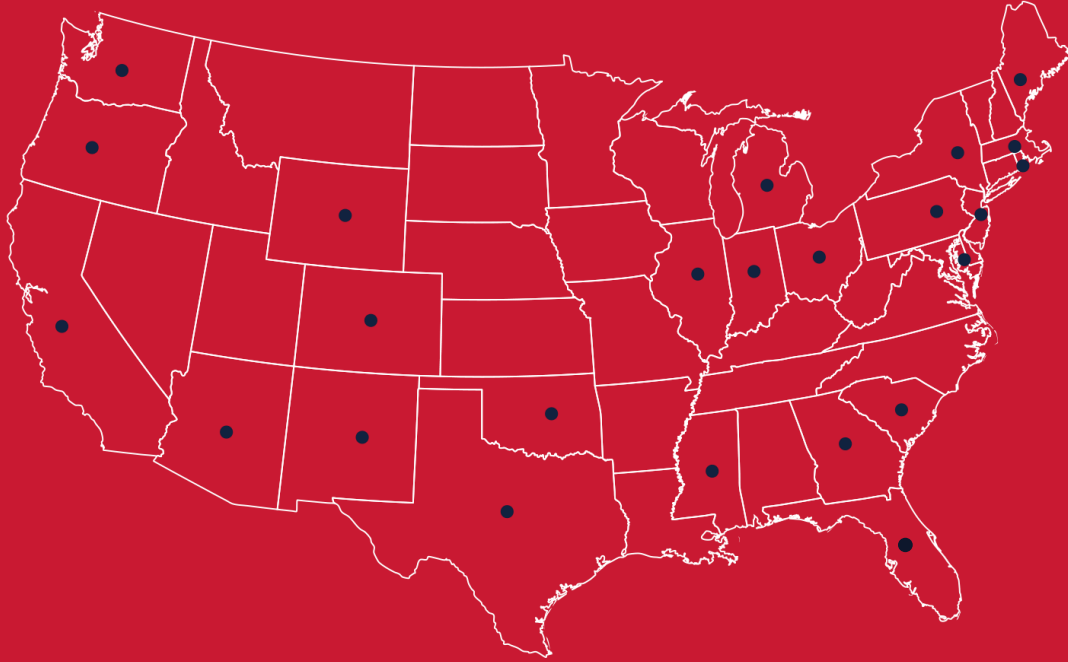
UNIVERSAL PHOTONICS



Michele Stolberg
Admin

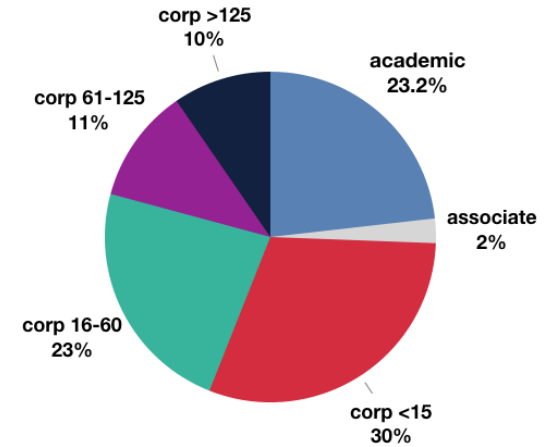
— TO BE VOTED ON —

MEMBERSHIP



125 members

Academic.....	29
Associate.....	3
Corporate <15.....	38
Corporate 16–60.....	29
Corporate 61–125.....	14
Corporate >125.....	12



18 NEW MEMBERS IN 2022

Momentum Optics	(Corp <15)
Naked Optics	(Corp <15)
Novotech, Inc.	(Corp <15)
Paramount Glassworks, LLC	(Corp <15)
Taylor Hobson, Inc.	(Corp <15)
Alpine Research Optics	(Corp 16-60)
Andover Corporation	(Corp 16-60)
Ecoclean Group	(Corp 16-60)
ER Precision Optical Corp.	(Corp 16-60)
Meadowlark Optics	(Corp 16-60)
Nu-Tek Precision Optical Corporation	(Corp 16-60)
SOMOS IWT, Inc.	(Corp 16-60)
Navitar	(Corp 61-124)
Advanced Thin Films / IDEX Optical Technologies	(Corp 61-124)
3M Electronics Markets Solutions Division	(Corp >125)
Heraeus Quartz North America LLC	(Corp >125)
II-VI Aerospace & Defense	(Corp >125)
Precitech/Ametek	(Corp >125)



FINANCE REPORT

*Statement of Activities
For The Year Ended
December 31, 2022*

REVENUES AND OTHER SUPPORT

Membership Dues	\$55,700.00
SPIE Optifab Sponsorship Proceeds (2021)	\$10,000.00
Workshop Sponsorships	\$19,747.00
Workshop Gross Revenue	\$38,800.00

TOTAL REVENUES AND OTHER SUPPORT **\$124,247.00**

EXPENSES AND LOSSES

Workshop Expenses **\$49,790.06**

Management and General Expenses:

Administration Assistance	\$5,218.00
Dues and Licensing	\$2,770.00
Tax & Accounting fees	\$475.00
Web Site Maintenance	\$468.00
Postage	\$166.00
	\$9,097.00

Contributions **\$6,000.00**

Loss on Phishing Scam **\$13,565.00**

TOTAL EXPENSES AND LOSSES **\$78,452.06**

CHANGE IN NET ASSETS **\$45,794.94**

NET ASSETS, BEGINNING OF THE YEAR **\$251,622.12**

NET ASSETS, END OF THE YEAR **\$297,417.06**

BUDGET

2022 Proposed Budget vs. Actual

<u>Item</u>	<u>Proposed</u>	<u>Actual</u>
Postage, Supplies	\$ 150.00	\$ 166.00
Dues & Licensing	\$ 5,500.00	\$ 2,770.00
Tax & Accounting Fees	\$ 800.00	\$ 475.00
Web Site Maintenance	\$ 500.00	\$ 468.00
Administrative Assistance	\$ 8,000.00	\$ 5,218.00
Travel	\$ 7,500.00	\$ -
Conventions (OptiFab)	\$ -	\$ -
Contributions	\$ 5,000.00	\$ 6,000.00
Workshop	\$ 50,000.00	\$ 49,790.00
Phishing Scam	\$ -	\$ 13,565.00
Total Proposed vs Actual	\$ 77,450.00	\$ 78,452.00



REVENUES AND OTHER SUPPORT

Membership Dues
and Special Sponsorship
Workshop Sponsorship
Workshop Dues Revenue

TOTAL REVENUES AND OTHER SUPPORT

EXPENSES AND LOSSES

Workshop Expenses

Management and General Expenses
Administrative Assistance
Dues and Licensing
Tax & Accounting Fees
Web Site Maintenance
Postage

Contributions

Loss on Phishing Scam

TOTAL EXPENSES AND LOSSES

CHANGE IN NET ASSETS

NET ASSETS, BEGINNING OF THE YEAR

NET ASSETS, END OF THE YEAR

\$ 291,622.12

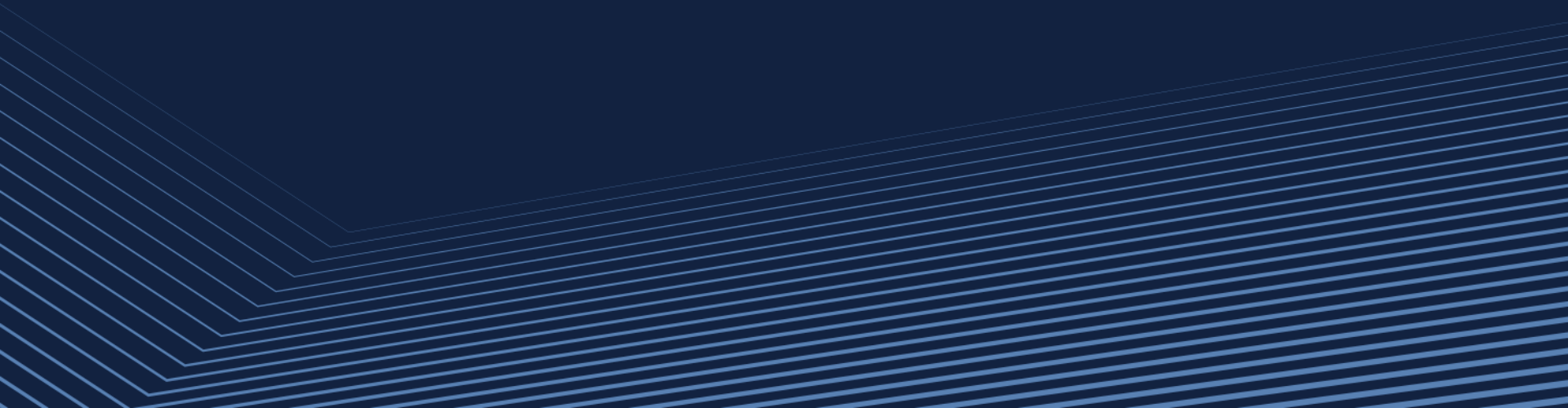
\$ 297,417.06

BUDGET

2023 Proposed

<u>Item</u>	<u>Amount</u>
Postage, Supplies	\$ 170.00
Dues & Licensing	\$ 6,500.00
Tax & Accounting Fees	\$ 900.00
Web Site Maintenance	\$ 2,500.00
Administrative Assistance	\$ 7,500.00
Marketing & Advertising	\$ 3,500.00
Conventions (OptiFab)	\$ 4,000.00
Contributions	\$ 5,000.00
Academic Contributions	
Director/Full-Time Support	
Budgeted Expenses	\$ 30,070.00

COLORADO TECH WORKSHOP





NOV 9 – 11, 2022 BOULDER, CO


FRONT RANGE
COMMUNITY COLLEGE
Open House

Tech Workshop
Welcome Reception

NIST Labs Tour

16 Presentations (2-DAYS)

Ranging from: sub-aperture polishing,
freeform optics, ISO standards, ITAR
regulations and much more

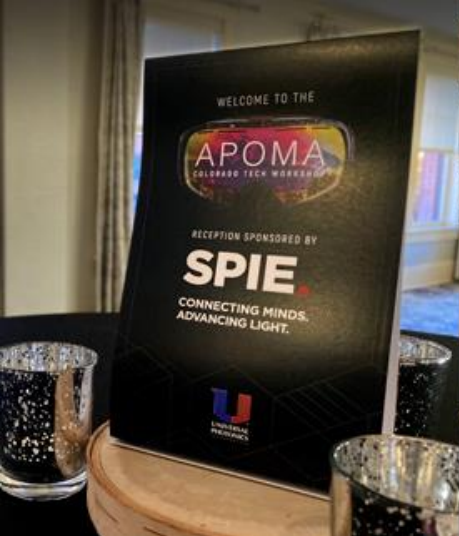
Schott Happy Hour
networking event

\$5000 Donation

FRCC Optics Program

Next workshop 2024







Suggestions for the location of the next workshop in 2024?

Florida

Hawaii

Orlando

Arizona

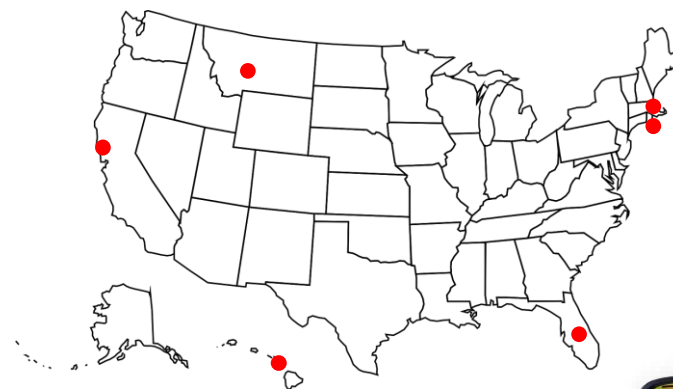
Bozeman, MT

Boston

Rhode Island

Lawrence Livermore Labs

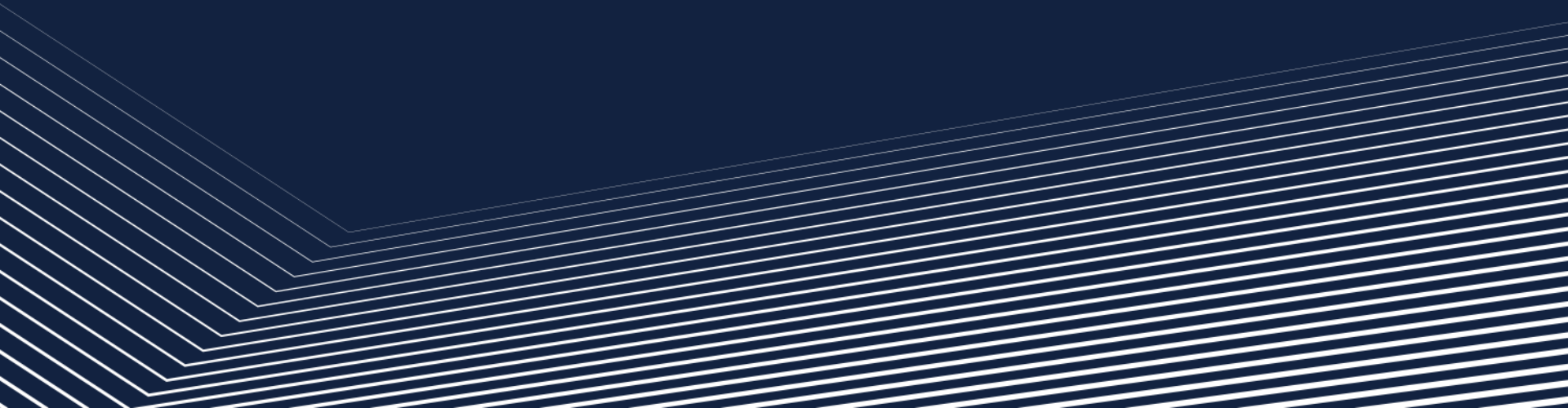
Someplace Warm



Email Travis Green with other suggestions



GUEST SPEAKERS



Optics Manufacturing Technician Apprenticeship

Dr. Alexis Vogt

A decorative graphic at the bottom of the slide consisting of numerous thin, parallel blue lines that create a sense of depth and movement, resembling a stylized horizon or a series of overlapping planes.

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**



- **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>

APPRENTICESHIP PARTNERS

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



Seeking additional optics companies!



STEPS TO DEVELOP AN OMT APPRENTICESHIP

Determine
company's critical
work function



for the on-the-job
learning

Identify related
technical instruction



aligned to the work
functions

Submit
application



Receive
approval



Select & register
apprentices



Start
apprenticeship



To get started contact - Ross Micali rmicali@monroecc.edu (585) 202-1118

National Work-based Learning Coordinator
Monroe Community College | Optical Systems Technology

BOB NOVAK SCHOLARSHIP WINNERS



Robyn Bartlett

2022



Abdelrahman Babiker

2022

BOB NOVAK

Bob was the heart of the Monroe Community College optics program. He dedicated a significant portion of his life's work to training & educating students. Bob's focus was always on students, connecting them to internships and job opportunities and ensuring that they were prepared for immediate employment. He continually reached out to employers for their assistance in keeping the curricula and labs updated and developed education and training tailored for incumbent workers. Bob always encouraged younger students to consider pursuing optics careers.

CHIPS and Science Act

Dr. Kent Rochford



REBRANDING

UPCOMING EVENTS

TODAY!



Where Have All the
Technicians Gone?
How Optics Ecosystems
Are Bringing Them Back

PANEL DISCUSSION

**Moscone Center,
Expo Stage, Hall DE
(Exhibit Level)**

2:45-3:45

30 April - 4 May 2023

SPIE. DEFENSE+
COMMERCIAL
SENSING

**Gaylord Palms Resort &
Convention Center
Orlando, FL**

July 2023



Rochester, NY

16 - 19 October 2023

SPIE.OPTIFAB

**Joseph A. Floreano
Riverside
Convention Center
Rochester, NY**

GENERAL MEETING

**APOMA members receive
exhibitor and attendee
discounts to Optifab.**

Thank you and enjoy Photonics West

