

APOMA

American Precision Optics Manufacturers Association



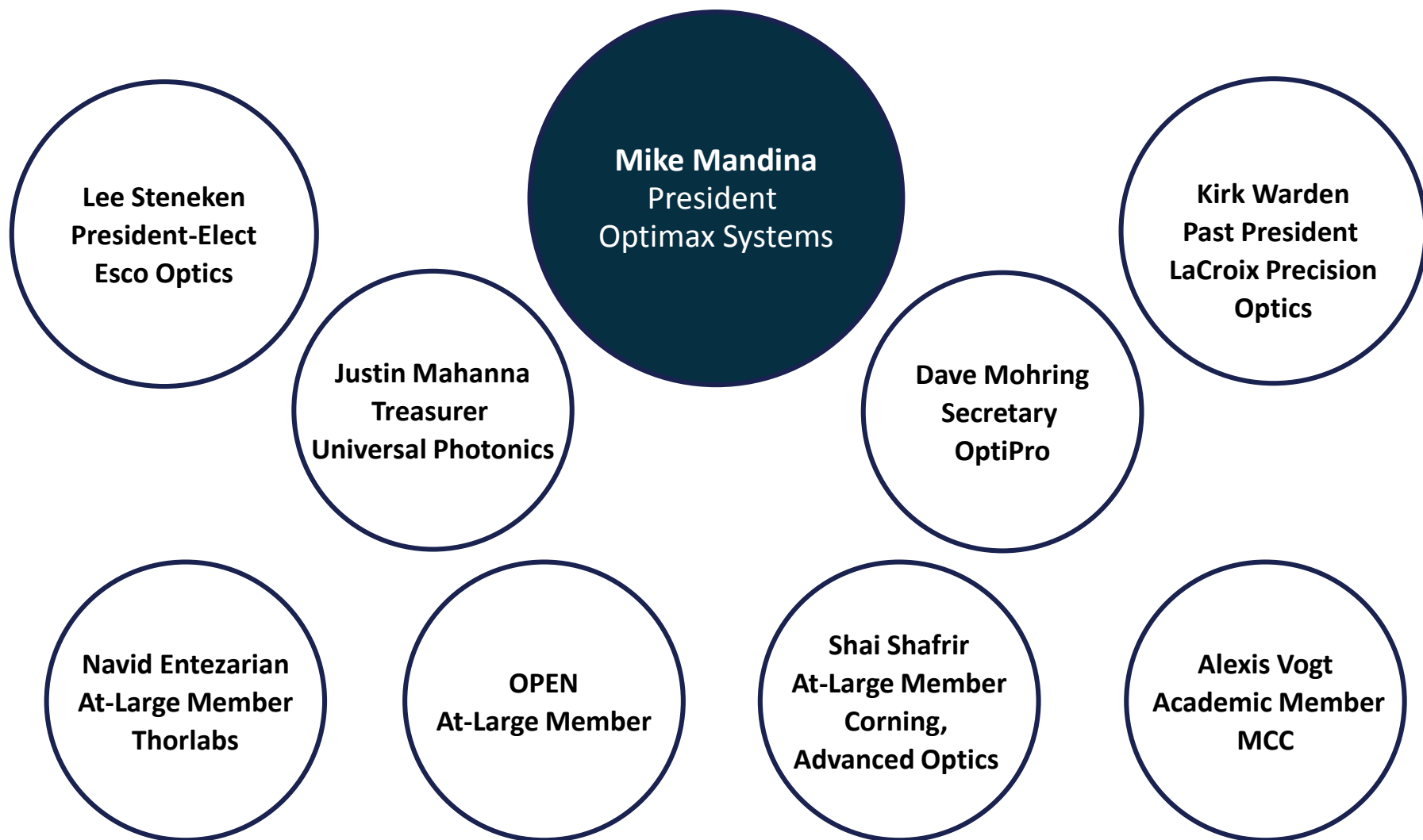
Welcome to the OPTIFAB General Meeting

October 20, 2021

Meeting Agenda

- Welcome and Opening Comments
- By-Law changes
- Membership update
- At-Large seat vote
- Financial Report
- AmeriCOM
- Committee Updates
- Technical Workshop in Colorado

APOMA Board Members 2019



Board Member E-mails

Contact information

- Mike Mandina: mmandina@optimaxsi.com
- Lee Steneken: lee@escooptics.com
- Kirk Warden: kirk@lacroixoptics.com
- Navid Entezarian: NEntezarian@thorlabs.com
- Justin J. Mahanna: justinm@universalphotonics.com
- Shai Shafrir: ShafrirS@Corning.com
- Alexis Vogt: avogt4@monroecc.edu
- David Mohring: dmohring@optipro.com
- Michele Stolberg: michlisa@frontiernet.net

Increase participation in APOMA Board

- Increase Board Member turnover
 - Term limits
 - Greater visibility and participation in the nomination and election process
 - Make some changes to membership classification
 - Participation of members in support of board members and committees
 - Possible increase in paid staff
 - Board members/positions up for nomination/renewal in 2020:
 - Jim Sydor, Secretary; Walt Czajkowski, Treasurer; Chris Ghio, Associate

By-Law changes

Classification changes

Classification Definitions

- Corporate Members are:
 - Companies manufacturing optical components or devices in the US, Canada and Mexico (Latin America), must join as Corporate Members. Dues are based on the number of employees.
- Associate Members are:
 - Companies that supply to or purchase from optics manufacturers. Membership is \$350.
- Affiliate Members are:
 - Non-North American Companies that manufacture, supply or purchase optical products. Membership is \$1200.
- Academic Members are:
 - Accredited organizations that engage in research, education or activities benefiting the optical industry. Free membership is limited to those involved in domestic optics.

APOMA Board Classifications

	Current			Proposed	
Mem Classifications	Vote?	Hold Office?		MemClass	Vote? Hold Office
Corporate	y	y		Corporate	y y
Associate	n (assoc y)	only 1		Associate*	y up to 3
Affiliate	n	n		Eliminate Affiliate Classification	
Academic	n	only 1		No Change	
Retired	n	n		No Change	
Honorary	n	n		No Change	
*change Fee schedule so Corporate and Associate are the same					
Total of 9 or 10 board members					

APOMA Board Classifications

Board Member Classifications	Classifications		Term (Years)	
	Current	Proposed	Current	Proposed
President (2+2)	Corp		2	2
President Elect (2)	Corp		2	2
Treasurer	Corp		2	2*
Secretary	Corp		2	2
Past Pres (Director) (2+2+2)	Corp		2	2
Corp	Corp	Corp or Assoc	2	2
Corp	Corp	Corp or Assoc	2	2
Academic	Acad		2	2
Associate	Assoc		2	2

* Create "Past Treasurer" classification that will run for 2 Years.
Will maintain authority and oversight during this 2 year timeframe.

Considerations for Treasurer Position

- Must be approved by Board
- Prior Board service preferred, may be required
- Associate members are now eligible

Nominee for At-Large Board Seat

- Zachary Hobbs
 - Director of Engineering at Sydor Optics
 - Zach has been in the precision optics industry for over 20 years; beginning as an optical technician before transitioning into mechanical and process engineering. He holds a B.S. in Electrical/Mechanical Engineering Technology from the Rochester Institute of Technology, as well as completing a New York State Toolmaker Apprenticeship. Zach has also been a co-author on multiple journal publications, technical presentations, and white papers.

Membership Distribution

- Current memberships to date (110 members):
 - Academic: 29 members
 - Associate: 23 members
 - Corporate <15: 21 members
 - Corporate 16-60: 20 members
 - Corporate 61-125: 9 members
 - Corporate >125 employees: 8 members
 - Affiliate (non-N. American): 0 members

New Members in 2021

- Archer OpTx, Inc. (Corporate)
- Cybele Enterprises LLC (Associate)
- Valley Design Corp. (Corporate)
- Wire Saw Solutions Group LLC (Associate)

Financial Review OPTIFAB 2021

APOMA Member Dues Status (10/20/21)

Member Dues Invoiced Yr. 2021	\$39,450
Member Dues Paid (to date)	\$31,600
Outstanding Payments	\$7,850

APOMA Yr. 2021 Proposed Budget

Postage, Supplies	\$150
Dues & Licensing	\$5,500
Tax & Accounting Fees	\$800
Web Site Maintenance	\$8,000
Administrative Assistance	\$8,000
Travel	\$7,500
Conventions (Optifab)	\$8,000
Contributions	\$5,000
Workshop	\$0
Budgeted Expenses	\$43,450

APOMA Updates

A series of white, three-dimensional geometric shapes, including rings and a pyramid, are arranged on a light blue surface. The shapes are rendered with soft shadows, giving them a realistic appearance. The background of the slide is a dark blue gradient.

APOMA Updates

- Apprenticeship – Dr. Alexis Vogt
- AmeriCOM – Tom Battley
- OEOSC/ISO 10110 – Pat Augino
- Export/Legal –Kerry T. Scarlott, Esq.
NorthStar Law
- Marketing/Tech Workshop – Lee Steneken

Optics Manufacturing Technician Apprenticeship

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



Seeking additional optics companies!



Optics Manufacturing Technician Apprenticeship

- **Benefits to Employers:**

- A more stable workforce
- Improved attendance & job satisfaction
- Reduced turnover
- Increased productivity
- Improved quality

- **Benefits to Apprentices:**

- Paid employment
- Long-term career opportunities
- Gain workplace relevant skills
- Receive industry credential
- Earn academic credit

Check out the new APOMA MCC Apprenticeship video!

<https://apoma.videoshowcase.net/mcc-apprenticeship-video-2021>

Optics Manufacturing Technician Apprenticeship

Ross Micali

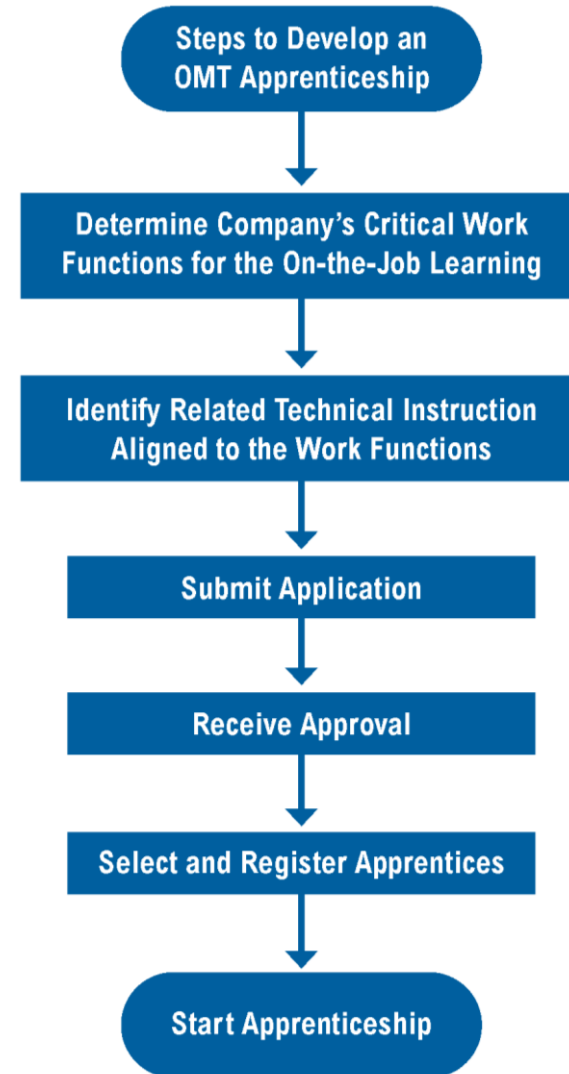
National Work-based Learning Coordinator

Monroe Community College

Optical Systems Technology

rmicali@monroecc.edu

(585) 202-1118



Apprenticeship Panel TODAY

- **Discussion on Funding and Support to Establish Registered Apprenticeships to Address Critical Workforce Shortages**
- **3:30 – 4:30pm**
- **Exhibition Hall**
- *Moderator:*
 - **Dr. Alexis Vogt**, Monroe Community College
- *Panelists:*
 - **Ashley Hoffman**, Apprentice Graduate, JML Optical
 - **Ross Micali**, National Work-based Learning Coordinator, Monroe Community College
 - **Jim VanKouwenberg**, Former Workforce Development Coordinator, Optimax
 - **Kirk Warden**, President, LaCroix Precision Optics
 - **Ben Zeller**, Apprentice Graduate, Optimax

AmeriCOM



American Center for Optics Manufacturing

The Backbone of America's
Precision Optics Industry



**Optifab 2021
Booth# 1106**

americom.org

Jeff Ruckman
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Alexis Vogt, PhD
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OEOSC - Update

- **OEOSC – ASC OP (National Standards)**
 - **Adopting ISO 10110, (2021/2022)**
 - 1st Group, 10110-1, -5, 7, -8 & 18
 - Will replace OP1.0110-1, -5, -8
 - 2nd Group, 10110-9, -11, 12, 14, 17, 19
 - Will replace OP1.0110-9, 12
 - Remaining, 10110-6 (Revision), 16 (new)
 - OEOSC will vote to adopt after ISO publication
 - **Adopting ISO 9211-1, -2, -3, -4 & ISO 12123 (2022)**

OEOSC - Update

- **OEOSC – TAG (International Standards)**
 - Standards under review/in revision
 - ISO 10110-5 – Surface form tolerances
 - ISO 10110-6 – Centering and tilt
 - ISO 10110-9 – Surface treatment and coating
 - ISO 10110-11 – Non-toleranced data
 - ISO 10110-16 – Diffractive surfaces
 - ISO 14999-4 – Interpretation and evaluation of tolerances specified in ISO 10110
 - ISO 9022-3 – Environmental test methods
 - ISO annual meetings scheduled in start of November
 - Dave Aikens – Head of Delegation for US SC1
 - Any suggestions for changes, please let Dave or I know asap
 - US Experts – Please register if you haven't already

OEOSC- Update

- **OEOSC – Membership**
 - **Seeking new members to participate**
 - **ASC OP – National**
 - TF4 - Imperfections
 - TF6 – Infrared materials
 - TF7 – Laser applications
 - **TAG – International**
 - SC1 Fundamental Standards
 - SC3 Materials and Coatings
 - SC4 Telescopes
 - SC5 Microscopes and Endoscopes
 - SC6 Geodetic Instruments
 - SC9 Lasers and Electro-Optics
 - **Joining OEOSC**
 - **Direct input on current and future standards**
 - **Interactions with experts in your field**
 - **Open time commitment**
 - www.oeosc.org

Export Control / Legal



Kerry Scarlott, Esq.
Founding Partner
NorthStar Law

A background image showing several 3D rendered optical components, including cylindrical lenses and a triangular prism, in a light blue/gray color, set against a dark blue gradient background.

APOMA Technical Workshop 2022 – Lee Steneken

Review: Technical Workshop 2018

Laser Tech Workshop
October 18 & 19, 2018



VINEYARD & WINERY
LIVERMORE, CA



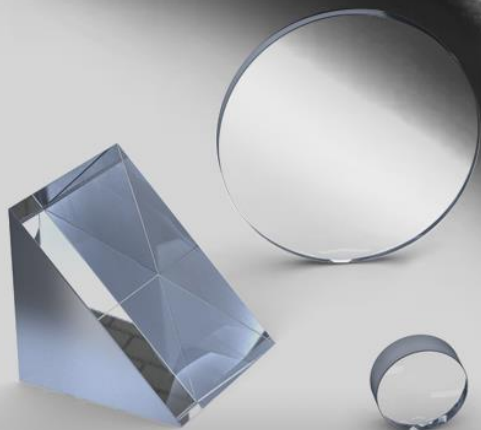
- October 18 & 19, 2018
 - Garre Winery - Livermore, CA
 - LLNL Tour
-
- LLNL
 - Savvy Optics
 - Universal Photonics
 - OptiPro
 - Schneider Optical
 - SPICA
 - Optimax
 - Jayco Cleaning
 - Optotech
 - Eminess
 - QED
 - Ray Williamson Consulting



Tech Workshop



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COLORADO TECH WORKSHOP



NOVEMBER 9-11th 2022

Wednesday 9th Welcome Reception

Thursday 10th Talks and Tour

Friday 11th Talks

Speaking/Attendance Commitments:

Tayyab Suratwala – Lawrence Livermore Nat. Lab

Kerry Scarlott – NorthStar Law

Alexis Vogt – Monroe Community College

Dave Aikens – Savvy Optics Corporation

Matthias Pfaff - OptoTech

Amanda Meier - Front Range Community College

Universal Photonics

OptiPro

Colorado Photonics Industry Association

If you're interested in providing a talk, or would like to suggest a topic, please email Lee@EscoOptics.com

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Mentorship Program?

- Gaging interest for participation
- Purpose is to provide a resource for optics companies to solicit advice from seasoned optics veterans.

Join our group!

APOMA LinkedIn:

**American Precision Optics Manufacturers
Association (APOMA)**

<https://www.linkedin.com/groups/2804066/>

Other Business?