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

Mike Mandina
President
Optimax Systems

Lee Steneken
President-Elect
Esco Optics

Justin Mahanna
Treasurer
Universal Photonics

Dave Mohring
Secretary
OptiPro

Navid Entezarian
At-Large Member
Thorlabs

OPEN
At-Large Member

Alexis Vogt
Academic Member
MCC

Shai Shafrir
At-Large Member
Corning, Advanced Optics
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@monroecce.edu
- David Mohring: dmoehring@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

<table>
<thead>
<tr>
<th>Mem Classifications</th>
<th>Current</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Vote?</td>
<td>Hold Office?</td>
</tr>
<tr>
<td>Corporate</td>
<td>y</td>
<td>y</td>
</tr>
<tr>
<td>Associate</td>
<td>n (assoc y)</td>
<td>only 1</td>
</tr>
<tr>
<td>Affiliate</td>
<td>n</td>
<td>n</td>
</tr>
<tr>
<td>Academic</td>
<td>n</td>
<td>only 1</td>
</tr>
<tr>
<td>Retired</td>
<td>n</td>
<td>n</td>
</tr>
<tr>
<td>Honorary</td>
<td>n</td>
<td>n</td>
</tr>
</tbody>
</table>

*change Fee schedule so Corporate and Associate are the same

Total of 9 or 10 board members
<table>
<thead>
<tr>
<th>Board Member</th>
<th>Classifications</th>
<th>Current</th>
<th>Proposed</th>
<th>Term (Years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>President (2+2)</td>
<td>Corp</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>President Elect (2)</td>
<td>Corp</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Treasurer</td>
<td>Corp</td>
<td>2</td>
<td>2*</td>
<td></td>
</tr>
<tr>
<td>Secretary</td>
<td>Corp</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Past Pres (Director) (2+2+2)</td>
<td>Corp</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Corp</td>
<td>Corp</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Corp</td>
<td>Corp or Assoc</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Academic</td>
<td>Acad</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Associate</td>
<td>Assoc</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

* 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
Member Dues Invoiced Yr. 2021 $39,450

Member Dues Paid (to date) $31,600

Outstanding Payments $7,850
## APOMA Yr. 2021 Proposed Budget

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Postage, Supplies</td>
<td>$150</td>
</tr>
<tr>
<td>Dues &amp; Licensing</td>
<td>$5,500</td>
</tr>
<tr>
<td>Tax &amp; Accounting Fees</td>
<td>$800</td>
</tr>
<tr>
<td>Web Site Maintenance</td>
<td>$8,000</td>
</tr>
<tr>
<td>Administrative Assistance</td>
<td>$8,000</td>
</tr>
<tr>
<td>Travel</td>
<td>$7,500</td>
</tr>
<tr>
<td>Conventions (Optifab)</td>
<td>$8,000</td>
</tr>
<tr>
<td>Contributions</td>
<td>$5,000</td>
</tr>
<tr>
<td>Workshop</td>
<td>$0</td>
</tr>
<tr>
<td><strong>Budgeted Expenses</strong></td>
<td><strong>$43,450</strong></td>
</tr>
</tbody>
</table>
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
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
American Center for Optics Manufacturing
The Backbone of America’s Precision Optics Industry

Jeff Ruckman
CEO & President
jruckman@americom.org

Tom Battley
Vice President,
Government & Partnerships
tbattley@americom.org

Alexis Vogt, PhD
Workforce & Higher Education Executive Director
avogt@americom.org

Optifab 2021
Booth# 1106
americom.org
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](http://www.oeosc.org)
Kerry Scarlott, Esq.
Founding Partner
NorthStar Law
APOMA Technical Workshop
2022 – Lee Steneken
Review: Technical Workshop 2018

- 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

APOMA
American Precision Optics Manufacturers Association
Tech Workshop

November 2022
Hotel Boulderado
IN THE HEART OF DOWNTOWN BOULDER
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*
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?