

APOMA

American Precision Optics Manufacturers Association



Welcome to the
APOMA Optifab Open Meeting

October 18, 2017

Meeting Agenda

- Welcome and Opening Comments-
- What is APOMA
- 2017/18 New Initiatives
- How to join APOMA
- 2018 Meeting Schedule
- In Memoriam
- Adjourn

What is APOMA

American Precision Optics Manufacturers Association

- The American Precision Optics Manufacturers Association (APOMA) is committed to promoting and advancing opportunities for the precision optics industry in North America.
- APOMA is the working group of the top U.S. optics manufacturers supporting industries and academic associates . Our members are front line and operations managers who turn to their peers in APOMA for best practices and technical guidance.

Membership Distribution

- Current memberships to date (144 members):
 - Academic: 30 members
 - Associate: 33 members
 - Corporate <15: 27 members
 - Corporate 16-60: 32 members
 - Corporate 61-125: 7 members
 - Corporate >125 employees: 7 members
 - Affiliate (non-N. American): 0 members

New members in 2017

- A&M Tool (Associate)
- Arizona Optics Valley Group (Academic)
- Coherent (Corporate)
- Chemetall Precision Microchemicals (Associate)
- Dynavac (Associate)
- Technical Optics (Associate)
- Flight Safety International (Corporate)
- Omega Optical Inc. (Corporate)
- Valley Design Corporation (Pending – not yet paid; Corporate)

APOMA Board Members 2017

Kirk Warden
President
LaCroix Precision Optics

Mike Mandina
President-Elect
Optimax Systems

Justin Mahanna
Past President
Universal Photonics

Walt Czajkowski
Treasurer

Jim Sydor
Secretary
Sydor Optics

Lee Steneken
Corporate Member
Esco Optics

Chris Ghio
Associate Member
Ohara Corporation

David Mohring
Corporate Member
OptiPro Systems

John Greivenkamp
Academic Member
University of Arizona

* Positions which were up for election.

Board Member E-mails . . . Changes?

- EMAILS:
- Justin J. Mahanna: justinm@universalphotonics.com
- Kirk Warden: kirk@lacroixoptics.com
- Mike Mandina: mmandina@optimaxsi.com
- Walt Czajkowski: czajkowskiwalt@gmail.com
- Chris Ghio: chrisghio@oharacorp.com
- John Greivenkamp: greiven@arizona.edu
- David Mohring: dmohring@optipro.com
- Jim Sydor: james@sydor.com
- Lee Steneken: lee@escooptics.com



APOMA Initiatives

APOMA 2017/2018 Initiatives

- Partner with SPIE to produce Optifab every odd year
- APOMA Technical Workshop every even year
- Involvement in the ITAR Revision process
- Apprenticeships: Developing a national credential for optics manufacturing technician?
- APOMA taking a more active role in disseminating training for ISO 10110 and OEOSC quality standards.
- Scholarships to support optics technician education

A 3D rendered image of various optical components, including cylindrical lenses, a triangular prism, and other geometric shapes, set against a dark blue background with a red horizontal band at the top.

APOMA Technical Workshop 2018

Technical Workshop Discussion

We are taking this show on the road



Technical Workshop Discussion

October 18 & 19, 2018

Hosted by



Technical Workshop Discussion

Conference will be held at the Garre
Vineyard and Winery
(2 miles from LLNL)



Technical Workshop Discussion

- **October 18-19, 2018** (Thursday, Friday)
- Exclusive Members only event
- Two days of Technical talks regarding the latest advancements in Optical fabrication
 - Past topics: Freeform and Aspheric manufacturing, IR materials, Polishing slurry and pad advancements, Cleaning technologies
- Touring LLNL facilities including:
 - NIF
 - Optics Loop
 - Research and Development Facility

Technical Workshop Discussion

November 2018

- **LLNL visitor requirements**

- US Citizens- Personal information required 3 weeks prior to the workshop
- Foreign Nationals (This includes those who possess a green card or are Legal Permanent Residents)- Personal information required 90 days prior to the workshop
- A website will be provided for registrants to securely enter their personal information

ITAR Revisions Update

Jennifer Douris O'Bryan

SPIE Government Affairs Director

National Apprenticeship Development Program

Jim Vankouwenberg

A 3D rendered image of various optical components, including cylindrical lenses, a triangular prism, and other geometric shapes, set against a dark blue background with a red border at the top and bottom.

ISO 10110 and OEOSC quality standards

Mike Mandina

2018 Meeting Schedule

- **Photonics West – APOMA General Meeting**
- When: Wed, 31 Jan, 8-10:00 am
- Where: Intercontinental Hotel, Room TBD.

How to join APOMA

1. Stop by the APOMA booth in the Optifab lobby
2. Go online to: www.apoma.org
 - (Hit the join APOMA nav. button)

How to join APOMA

Membership pricing

Corporate (Annual dues by company size)

1-15	\$300
16-60	\$450
61-125	\$700
>126	\$1,300

Associate \$350

Academic Free

Affiliate \$1,300

In Memoriam 2018



Remembering the Cody's

Colin 'Cody' Green
Former APOMA President,
March 17, 2017



Cody Kreischer
June 16, 2017



Other Business?

A collection of 3D rendered optical components, including several cylindrical lenses of varying sizes and a triangular prism, arranged on a light blue surface. The components are rendered with soft shadows and highlights, giving them a realistic appearance.