

# OPTICS

## Tech Pulse



PHOTONICS MEDIA

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Optics Tech Pulse is a special edition newsletter from Photonics Media and APOMA covering key developments in optics technology.

sponsor

## Laser Tech Workshop

October 18 & 19, 2018

At Garre Vineyard & Winery, California



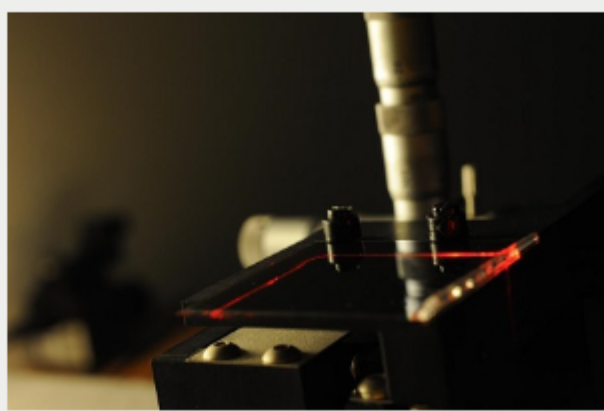
# APOMA

American Precision Optics Manufacturers Association

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### Creating Precision Optical Components with Inkjet Printing

Researchers have developed an inkjet printing technique that can be used to print optical components, such as waveguides. The printing approach can also fabricate electronics and microfluidics. The researchers discovered that depositing the ink in two steps enabled printing of lines with a specific height and with much smoother features than traditional techniques.



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PROMOTED CONTENT



### APOMA Laser Tech Workshop

October 18-19, 2018

Garre Vineyard & Winery - Livermore United States

The APOMA Laser Tech Workshop is the best opportunity for engineers and optics technicians to learn the latest methods and materials in glass fabrication. Two in-depth days of workshops from industry professionals with topics ranging from Predictive Models for Grinding and Polishing of various Optical Materials to OptiSonic: Ultrasonic Fabrication Methods and Applications just to name a few.

[More Info](#)

## Optical Engineers & Fabricators Laser Tech Workshop

October 18 & 19, 2018

Garre Vineyard & Winery, CA



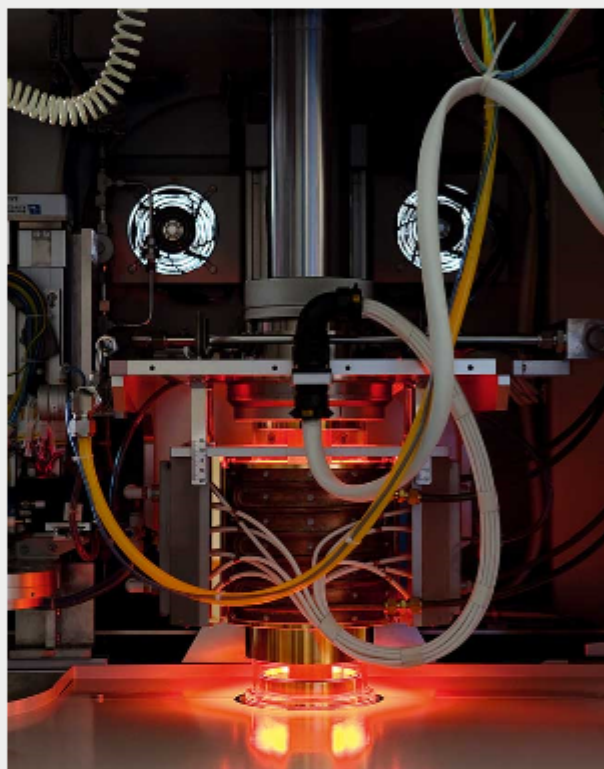
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### Germanium Alternative Gaining Momentum for IR Optics

When it comes to designing IR imaging systems, manufacturers have traditionally worked with crystalline materials such as germanium. Chalcogenide glass has emerged as another material option for IR optical elements. Not only does it boast excellent performance, but more importantly, it can be fabricated using scalable precision glass-molding methods.

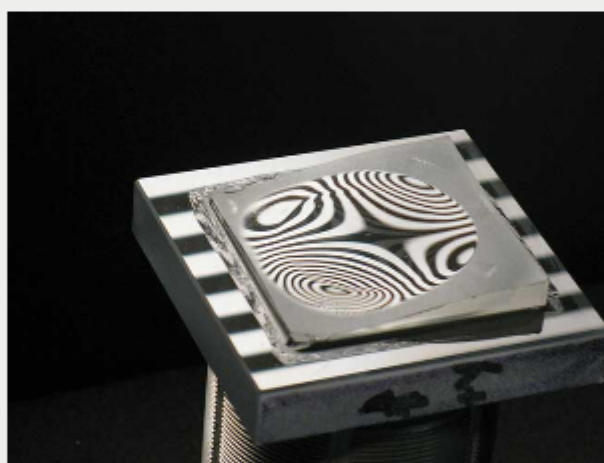


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### Faster, Higher-Volume Production on the Horizon for Freeform Optics

Adapting existing production methods to freeform optics must go beyond simply extending machine capabilities and software; it necessitates completely new process chains. Research into developing new, cost-efficient production methods needs the close collaboration of optics designers and manufacturers.



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### Vapor Deposition Method Suits Coating Curved Optics

Antireflection coatings are some of the most extensively employed types of optical thin films. By reducing the amount of light reflected from a surface, such coatings improve system throughput, increase contrast, and enhance signal-to-noise ratio in virtually every type of precision optical system and in commercial products such as eyeglasses, flat-panel displays, and architectural windows.

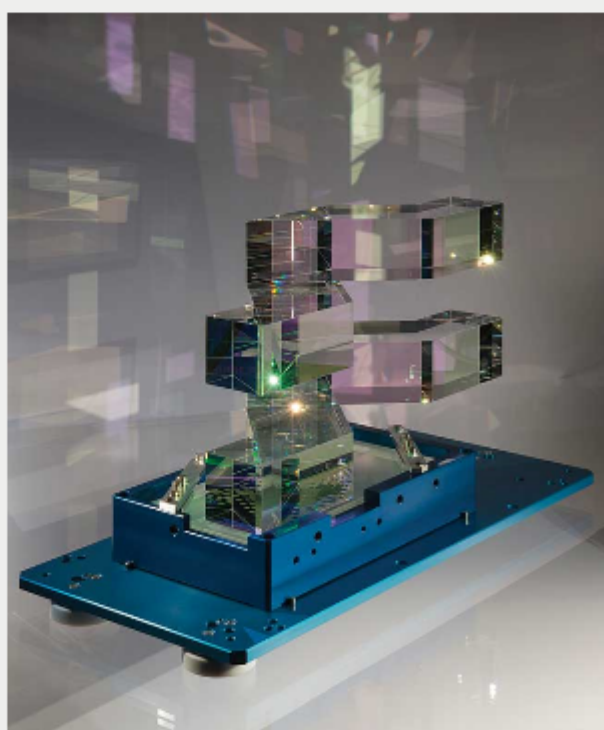


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### Innovations in Lens Measurement

Automobile cameras, telescopes, head-mounted displays, laser-focusing heads, and other modern photonic devices incorporate high-grade optics that can perform under extreme environmental conditions. The demand for such lenses means they must be reproduced with the utmost accuracy, placing stringent requirements on lens measurement.



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### Improving Automation with 3D Vision

The additional data in a 3D image makes it possible to execute challenging tasks, such as optical character recognition. What's more, 3D vision makes it easier to distinguish between robots or other machines and people — an important capability if robots and people are to mingle freely.



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