

# This Week In PHOTONICS

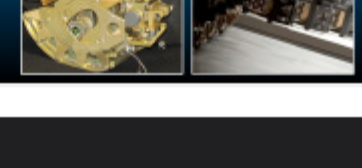
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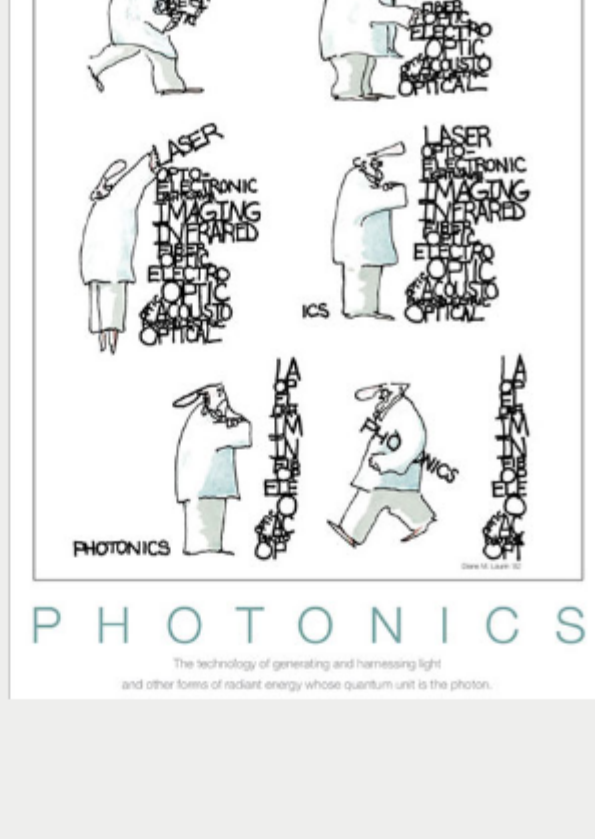
**Corning Advanced Optics**  
EOIR Solutions – Prototype through Production



## Top Stories

### Laurin Publishing Announces Poster Series

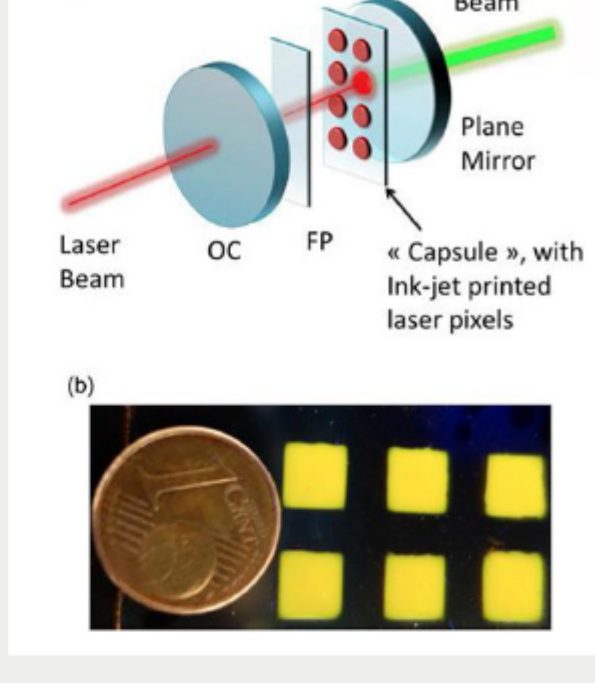
Laurin Publishing Co., whose titles include Photonics Spectra and BioPhotonics magazines and the Photonics Buyers' Guide, announces the availability of two posters featuring art that takes a lighthearted look at the early days of the photonics industry. The unique and original drawings of Diane M. Laurin appeared in the pages of Photonics Spectra magazine and its predecessor, Optical Spectra, in the 1970s and 1980s.



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### Inkjet-Printed Lasing Capsule Produces Disposable Organic Lasers

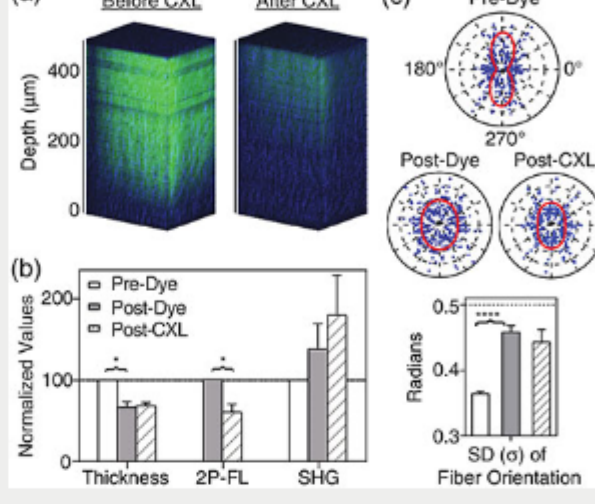
An ultralow-cost fabrication method uses an inkjet printer to produce "lasing capsules" for external-cavity vertically emitting thin-film organic lasers, a development that could enable disposable laser chips. One obstacle that has limited widespread adoption of organic lasers is the fact that they degrade relatively quickly, which could be overcome if the lasers are inexpensive enough to dispose upon failure.



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### Two-Photon Collagen Crosslinking Demonstrated for Cornea Repair

A technique called two-photon corneal collagen crosslinking (2P-CXL) has been demonstrated to strengthen the cornea, with results confirmed by confocal Brillouin microscopy. The method could enable selective biological tissue stiffening in situ for applications in ophthalmology, laser surgery and tissue engineering.



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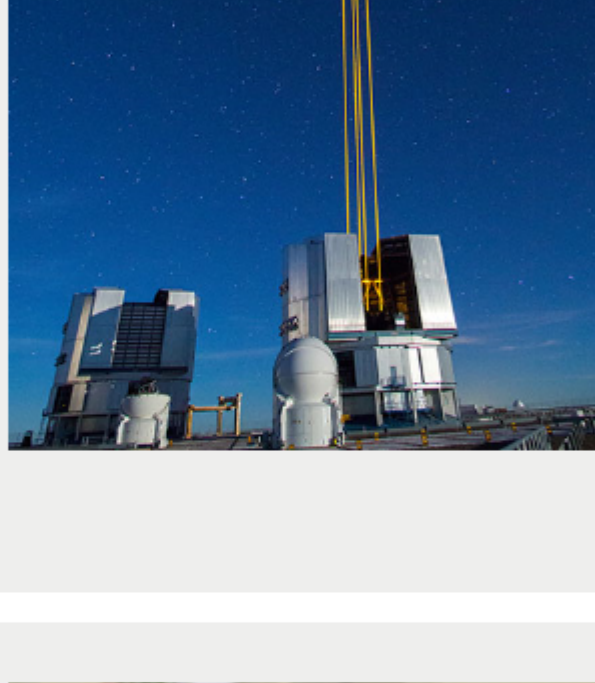


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### Toptica Lasers Used in Chilean Observatory

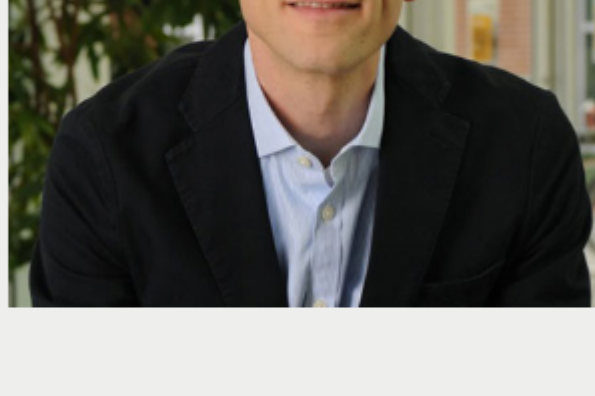
Using four independent lasers from Toptica Photonics AG, the Four-Laser Guide Star Facility housed at the Paranal Observatory in Chile is now fully operational. This phase is a major step toward the completion of the Adaptive Optics Facility (AOF). Part of the European Southern Observatory's Very Large Telescope (VLT), the independent lasers were used simultaneously to implement advanced modes of adaptive optics.



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### STEM Doctoral Candidates Seeking Nonacademic Careers

A recent study indicates that the research-faculty path may no longer be the norm for postdoctoral students in STEM (science, technology, engineering and mathematics) fields.

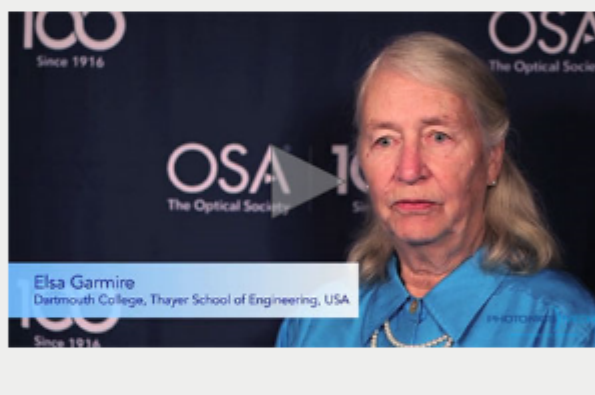


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## Featured Video

### OSA Centennial - Elsa Garmire - Dartmouth College

The Optical Society members share their reflections on 100 years of optics innovation, what inspired their interest in the field and how OSA has impacted their career.



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## More Headlines

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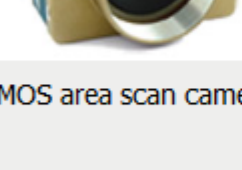
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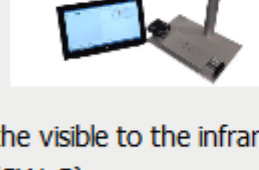
## Featured Products



### GigE Vision CMOS Area Scan Camera

**Teledyne DALSA**  
Introducing Genie Nano, a GigE vision CMOS area scan camera that redefines low cost performance.

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### Hyperspectral Application Development Kit

**Corning Advanced Optics**  
Corning Incorporated's microHSI™ spectral sensor systems; spanning from the visible to the infrared, combine low size, weight and power (SWaP).

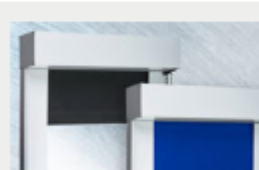
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### Custom Precision Polymer Optics

**Diverse Optics Inc.**  
Diverse Optics manufactures custom, precision polymer optics. Our core processes include injection molding, single-point diamond turning (SPDT), opto-mechanical design, metrology, assembly, bonding, and thin-film coating.

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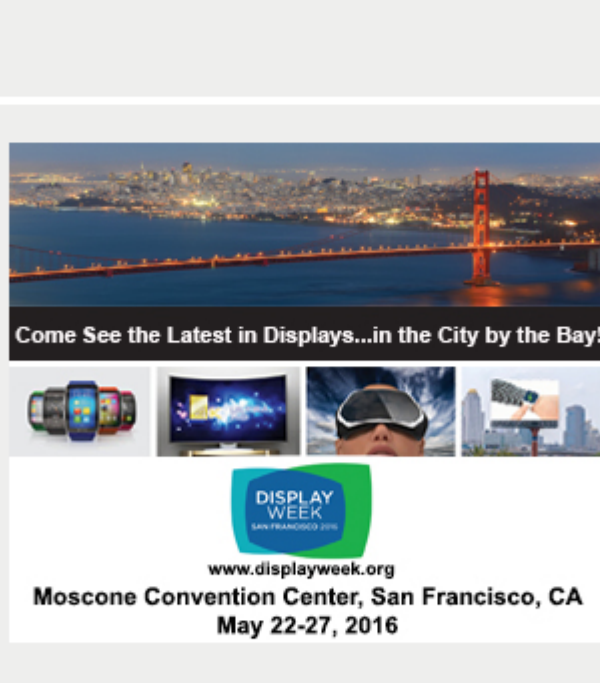
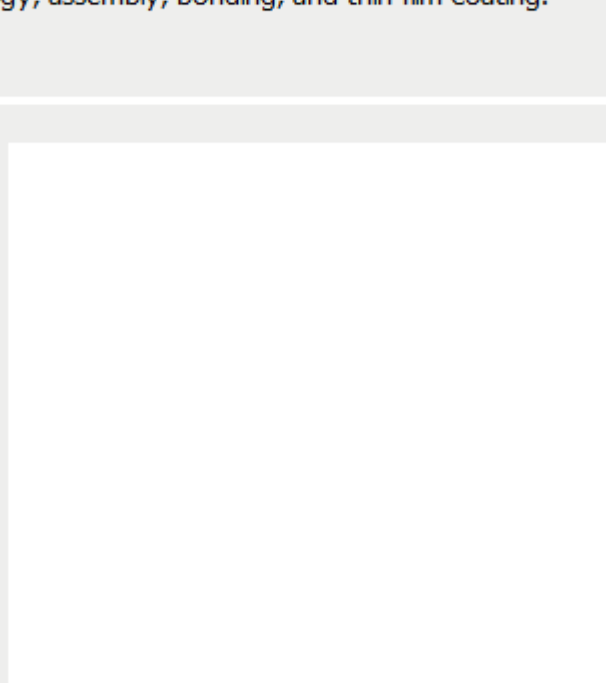


### Window Protection Shades & Blocks

**Kentek Corporation**  
Kentek's laser safe window protection shades and blocks are made-to-measure for virtually every shape and size window.

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## Industry Events

### Sensors Expo & Conference 2016

June 21-23, 2016 - McEnery Convention Center - San Jose, CA

The only industry event in North America exclusively focused on sensors and sensor-integrated systems. Join thousands of leading engineers and innovators to see the latest sensing technologies and identify new ways to improve products and expand their capabilities using sensors. With over 250 exhibitors and five pre-conference sessions, two keynote presentations, and more than 55 technical conference sessions covering nine tracks.

Special offer for Photonics subscribers to attend Sensors 2016: Use code **PHOTONICS50** for \$50 off Gold & Main Conference Passes or a FREE Expo Hall Pass in advance.

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## Webinars

### Optimizing Machine Vision Systems to Maximize Product Quality and Yield

Thu, May 19, 2016 1:00 PM - 2:00 PM EDT

Nelson Bridwell, president of Machine Vision Engineering LLC and an AIA Certified Advanced Vision Professional, demonstrates how to use statistical control to optimize reliability and yield of machine vision systems. Topics covered in this FREE webinar include: Setting configuration parameters using ad hoc procedures and potential problems associated with them; applying multidimensional limits to protect quality and yield in challenging applications; accounting for measurement error and repeatability; understanding process capability; and more.

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Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *Industrial Photonics*, *BioPhotonics* and *EuroPhotonics*). Please submit an informal 100-word abstract to Managing Editor Michael Wheeler at [Michael.Wheeler@Photonics.com](mailto:Michael.Wheeler@Photonics.com), or use our [online submission form](#).

Questions: [info@photonics.com](mailto:info@photonics.com)

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