Thursday, October 16, 2025

PHOTONICS spectra

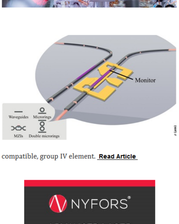
## Weekly News




### Industry Leaders Tackle Geopolitical Volatility at the Global Photonics Economic Forum

A volatile geopolitical landscape was one of several pressing topics on the docket at this year's Global Photonics Economic Forum from Optica. China has announced new export restrictions on rare earths. The measures are likely to be felt throughout the photonics industry. Covering mergers and acquisitions, Excelitas has just agreed to acquire Luxium Solutions, and Theon Sensors will take over a nearly 10 percent stake in electro-optical company, Exosens. In personnel moves, ASML has appointed Marco Pieters as its Chief Technology Officer, and TOPTICA Photonics has appointed Matthias Hohenleutner as its Vice President of Production. In Rochester, industry leaders are investing heavily in the future of photonics at Monroe Community College. SPIE Optifab 2025 returns next week, and Photonics Spectra Now will be there to bring you the latest developments in optical manufacturing from the trade show floor. Sponsored by Edmund Optics and Thorlabs.

Watch Now

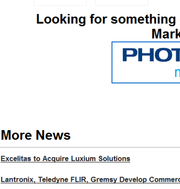


### Handheld Sensor Detects Markers for Early-Stage Alzheimer's

A newly-developed, handheld optical sensor could make Alzheimer's disease easier to detect in its early stages, when treatments for the disease are most effective. The photonic resonant sensor is the result of a collaboration among researchers at the University of York, the University of Strathclyde, and the University of São Paulo. Read Article

### SAXFUSION Initiative Launches to Advance Germany's Fusion Energy Roadmap

The German State of Saxony is launching a competence network for future technologies in nuclear fusion. The aim is to advance fusion as a clean, safe, and base-load capable energy source, to build strategic expertise, and to make the results available to industry and society. Read Article




### Implanted Waveguide Photodiode Promises Practical Programmable Photonics

A silicon waveguide photodiode, designed by a team at the Hong Kong University of Science and Technology, addresses many of the challenges that affect existing on-chip power monitors for programmable photonics. The researchers implanted their photodiode with germanium, a CMOS-compatible, group IV element. Read Article



## Featured Products & Services

**Andor CB2 sCMOS Series**
**Oxford Instruments**
The Andor CB2 Series is a new family of ultra-high performance scientific CMOS cameras with a spectral sensitivity from 200 to 1000 nm and resolutions ranging from 0.5 MP to 24.5 MP, designed for speed, sensitivity, and reliability across life sciences, physical sciences, and the semiconductor industry.

Visit Website | Request Info

**Precision Polished Substrates**
**Ohara Corporation**
Ohara is a leading manufacturer of double-side polished substrates with extremely low surface roughness (RMS ~2 Angstroms) and flatness (~1 µm) values. Sizes 25- to 360-mm diameter, thin (down to 50 µm) and ultra-clean. Fused silica, optical glass, etc.

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**Looking for something else? Check the Photonics Marketplace.**

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## More News

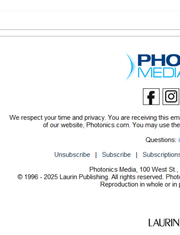
Excelitas to Acquire Luxium Solutions

Lantronix, Teledyne FLIR, Gremsy Develop Commercial Drone Solution

AI-Powered Spectral Intelligence Firm Closes $7M Capital Round

POET Technologies Closes $75M Investment

## Latest Webinars



### Tools for Analyzing, Controlling, and Simulating Biological Systems

**Tue, Oct 28, 2025 1:00 PM - 2:00 PM EDT**
Expansion microscopy enables nanoscale imaging with standard microscopes by physically magnifying specimens. Ed's team also pioneered optogenetics, using light-sensitive proteins to control neuron activity and study brain function. Combined with robotic evolution, fluorescent reporters, and multiplexed imaging, these advances reveal how molecular signals interact within living cells. Sponsored by Zaber Technologies Inc., Jenoptik, and COMSOL Inc.

Register Now



### Breaking the Manual Barrier: Automated Alignment for Photonics

**Mon, Nov 10, 2025 11:00 AM - 12:00 PM EST**
Manual photonics alignment limits throughput and scalability. Modular, automation-ready systems with multi-axis drives and fast scan technology boost efficiency and precision while integrating measurement workflows. Explore these advances in "Breaking the Manual Barrier: Automated Alignment for Photonics." Presented by SmarAct.

Register Now



### Advanced Motion Control for Semiconductor Metrology

**Tue, Nov 18, 2025 1:00 PM - 2:00 PM EST**
Join our webinar on advanced motion control for semiconductor inspection and metrology. Learn how precision motion systems power wafer inspection, SWLI, SEM/FIB, and AFM— Best for those working in boosting accuracy, speed, and reliability in manufacturing. Presented by Aerotech.

Register Now

## All Things Photonics



### Photonic Origami: The Art of Folding Glass With Lasers — With Tal Carmon

A conversation with **Tal Carmon**, a professor at Tel Aviv University, who led the team behind the recently unveiled method of photonic origami. The conversation covers the technology's origins, how it works, and what its potential applications may be.

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Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *BioPhotonics*, and *Vision Spectra*). Please submit an informal 100-word abstract to editorial@Photonics.com, or use our online submission form.