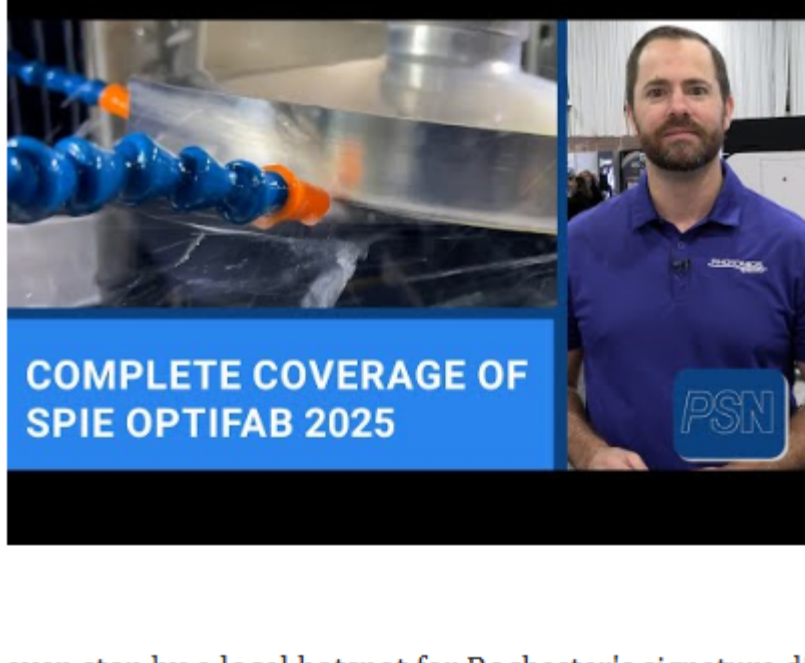




Weekly News

OHARA



SPIE Optifab 2025 Recap, Touring Laser Labs at the University of Rochester

Photonics Spectra Now is on location with complete coverage of SPIE Optifab 2025! Join us as we walk the floors to check out the latest innovations from the industry's leading players. We'll learn more about the show from officials with Edmund Optics and talk about the trends in optical fabrication. And since we're already in Rochester, we decided to drop by the University of Rochester to tour the Laboratory of Laser Energetics and discuss ambitious plans for NSF OPAL. We'll

even stop by a local hotspot for Rochester's signature dish. Sponsored by Edmund Optics and Thorlabs.

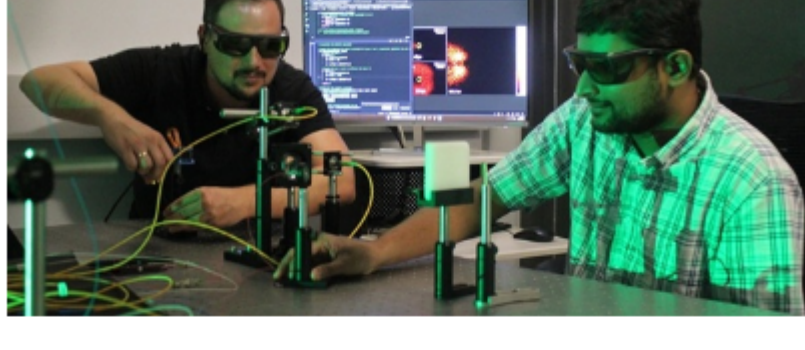
[Watch Now](#)



Dark Matter May be Measured by Color Fingerprint It Leaves on Light

Scientific belief has held that dark matter, the strange substance that comprises more than one quarter of the universe's energy, is invisible and does not interact with light. New research from the University of York challenges this assumption, and instead suggests that light may pick up a faint tint of measurable color when it passes through dark matter.

[Read Article](#)



Team Applies Synthetic Wavelength Imaging to Skin Cancer Diagnoses, Treatment

Researchers at the University of Arizona will pursue the development of optical imaging technologies capable of deeper, clearer views into biological tissues, such as skin or

soft tissue linings within the body. Led by Florian Willomitzer and Clara Curiel-Lewandrowski, the team is one of just four groups nationwide to receive funding through the Advancing Non-Invasive Optical Imaging Approaches for Biological Systems initiative. [Read Article](#)



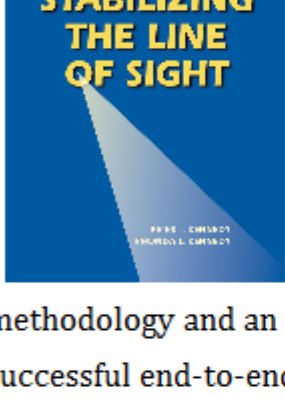
Ultrashort Pulse Laser Shapes and Polishes in a Single Clamping Operation

Tools made from ceramic hard materials like drills, milling heads, rollers and even punch inserts are highly resistant to wear, but the tools used to manufacture them wear out rather quickly. A process developed at Fraunhofer Institute for Laser Technology changes this by using an ultrashort pulse laser to

shape and polish these hard material components without changing the clamping setup. [Read Article](#)



Featured Products & Services



Stabilizing the Line of Sight

Photonics Media

In *Stabilizing the Line of Sight*, authors Peter J. and Rhonda L. Kennedy provide a methodology and an example for executing a successful end-to-end line-of-sight (LOS) design. Comprehensive in scope, this book will give readers a better understanding of the relationships between the various engineering disciplines that are required for successful LOS control.

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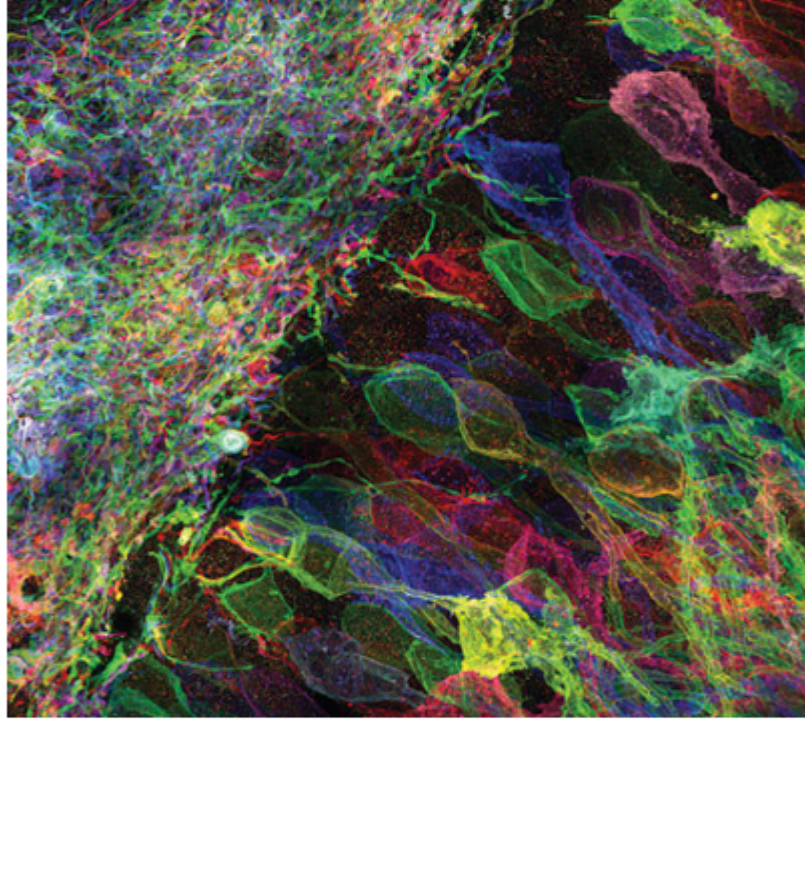
[Kopin and THEON International Advance Partnership](#)

[Prisma Photonics Raises \\$30M to Scale AI-Driven Fiber Sensing Platform](#)

[LuxQuanta Raises \\$9.3M for Quantum Security Tech](#)

[Summer Robotics Closes Series A, Partners with VoxelSensors](#)

Latest Webinars

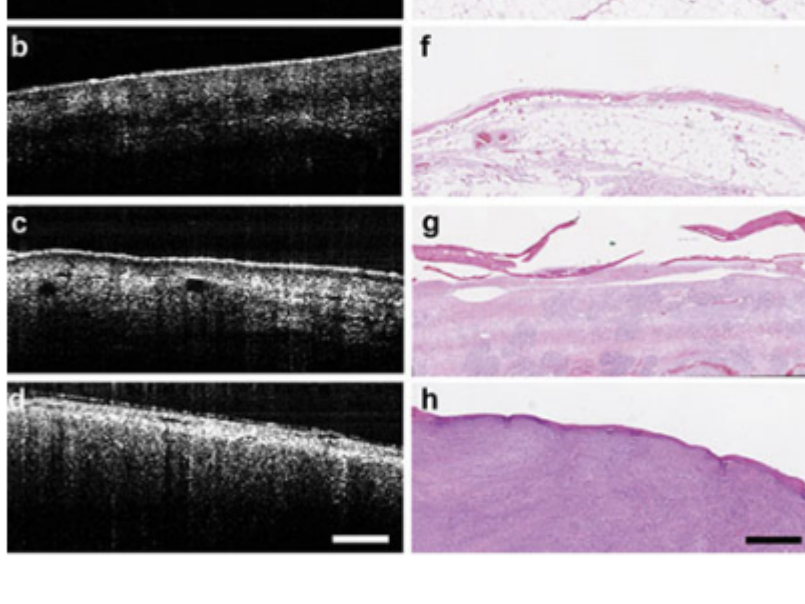


Tools for Analyzing, Controlling, and Simulating Biological Systems

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](#)



Intraoperative PS-OCT in Cancer Surgery in Dogs and Cats

Thu, Nov 6, 2025 1:00 PM - 2:00 PM EST

Surgery is a cornerstone of cancer treatment in dogs and cats, but assessing tumor margins has long relied on slow, limited histopathology. Polarization-sensitive OCT (PS-OCT) offers a real-time, non-invasive solution for intraoperative margin evaluation. Clinical trials in dogs and cats demonstrate that PS-OCT accurately distinguishes tumor tissue from surrounding structures, enabling immediate surgical intervention when margins are incomplete. This approach may reduce repeat procedures, lower patient morbidity, and ease financial burdens for pet owners. Sponsored by Thorlabs.

[Register Now](#)

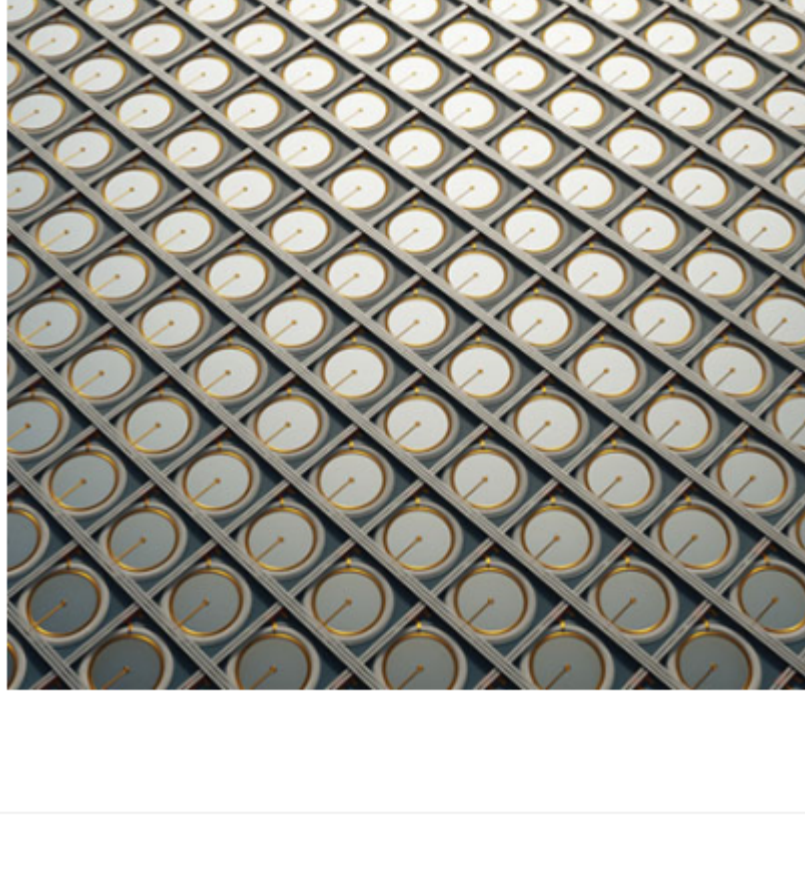


Breaking the Manual Barrier: Automated Alignment for Photonics

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](#)



SPAD Arrays and Cameras: A Comparison with Conventional Image Sensors and Detectors

Wed, Nov 12, 2025 10:00 AM - 11:00 AM EST

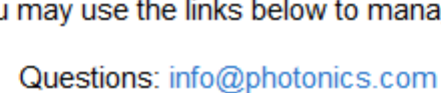
The discussion focuses on the working principles of SPAD-based systems and outlines scenarios in which these systems offer unique advantages compared with conventional solutions, depending on the application.

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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](#).

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