



## Weekly News

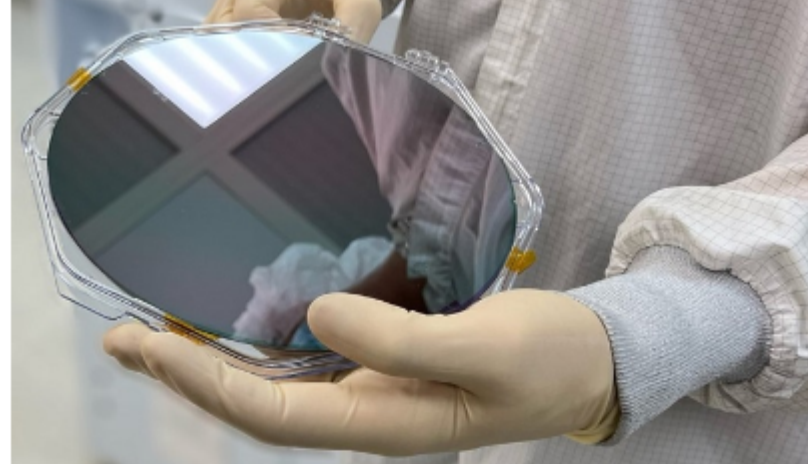


### AMD Acquires Enosemi for AI Systems, Penny-Sized Laser Has Limitless Applications

AMD is announcing it acquired silicon photonics startup Enosemi for its evolving AI strategy. The European Machine Vision Association has awarded Rolandos Alexandros Potamias the Young Professional Award for 2025. Hamamatsu is partnering with Vizgen to help bring multiplex assay development to a range of new applications. Aeluma and Thorlabs Crystalline Solutions have shared results of a breakthrough, large-diameter wafer manufacturing platform.

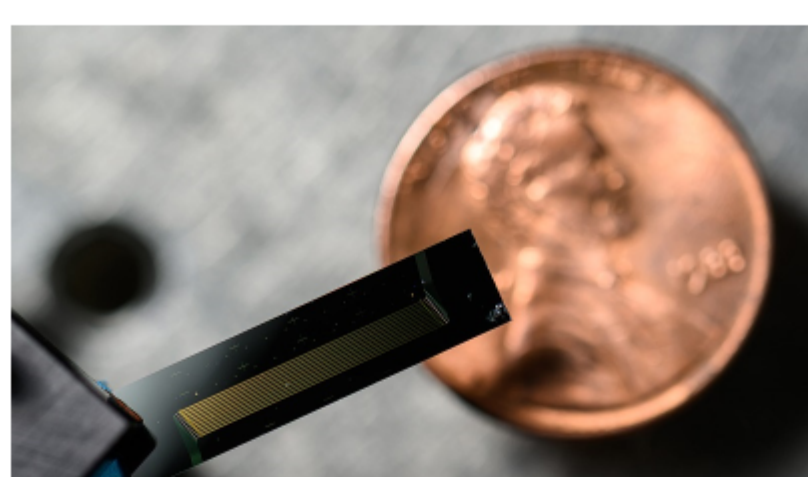
A new laser device, smaller than a penny, could prove useful in a range of applications. And a team of scientists from Vienna University of Technology and Keio University, have found a way to create artificial blood vessels to be used in miniature organ models. Sponsored by CeramOptec and Norland Products.

[Watch Now](#)



### Aeluma and Thorlabs Advance Mass-Manufacturability of Quantum Photonic Chips on Silicon

Aeluma, in collaboration with Thorlabs, has demonstrated wafer-scale integration of the nonlinear optical material aluminum gallium arsenide onto CMOS silicon photonics-standard 200-mm diameter wafers. [Read Article](#)



### Chip-Scale Laser is an Ultrafast Addition to the Optical Metrology Toolkit

Researchers from the University of Rochester and University of California, Santa Barbara, engineered a laser device smaller than a penny. The researchers believe the device could power everything from the lidar systems used in self-driving vehicles to gravitational wave detection. [Read Article](#)



### Quantum Computing Firm Pasqal Acquires AEPONYX

Neutral atom computing firm Pasqal has acquired AEPONYX, a developer of photonic integrated circuits technology. According to Pasqal, the move strengthens its existing hardware platform and accelerates its roadmap to fault-tolerant quantum computing. [Read Article](#)



## Featured Products & Services



#### ALS-IR 1762 — High Power at 1762 nm for Ba+

**Toptica Photonics AG**

A significant leap forward in quantum information processing, offering unparalleled stability and control over quantum states. The system was developed specifically for the 6S to 5D transition in barium ions. With high power, narrow linewidth enablement, and exceptional stability.

[Visit Website](#)

[Request Info](#)



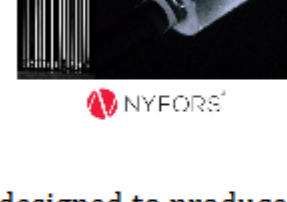
#### LASEROPTIK Exhibits in Munich

**LASEROPTIK GmbH**

For over 40 years LASEROPTIK has been developing and manufacturing high power optics and coatings. An average of 180,000 custom optics per year is produced for laser applications in industry, medicine, and science. Let's share experiences at booth # B1.120.

[Visit Website](#)

[Request Info](#)



#### CO<sub>2</sub> Laser Glass-Processing

**NYFORS Teknologi AB**

CO<sub>2</sub> laser glass-processing is designed to produce high-power and sensitive photonic components and complex structures. It guarantees contamination-free processing for fiber linear, 2D and gapless array splicing, ball lensing, end-capping, and many other challenging processes. NYFORS also manufactures automated high-precision solutions for fiber preparation, such as stripping, cleaving, recoating, and end-face inspection. NYFORS offers custom workcell automation solutions.

[Visit Website](#)

[Request Info](#)



#### Diffraction Gratings for Telecommunication

**CASTECH INC.**

CASTECH's high DE reflection grating is ideal for

WSS and other applications in the optical communication industry. The high-precision design of the grating provides outstanding diffraction efficiency and perfect uniformity.

[Visit Website](#)

[Request Info](#)

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



## More News

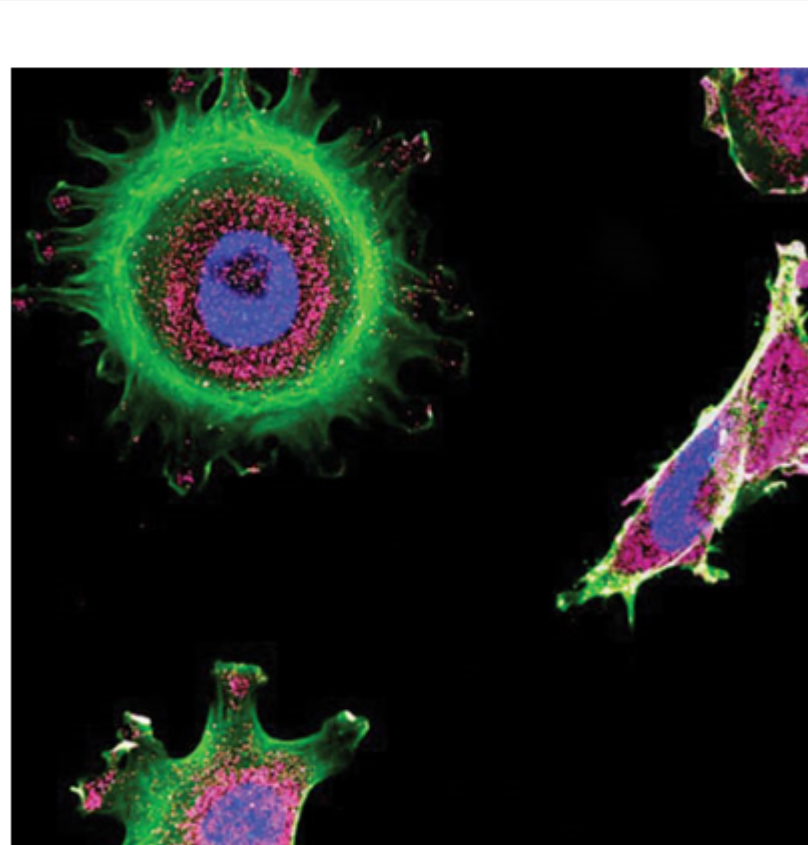
[QED Technologies Gains European Foothold, Acquires Dutch United Instruments](#)

[Hamamatsu, Vizgen, Collaborate for Enhanced Biomarker Detection Capabilities](#)

[Nord Quantique Reports Multimode Encoding Breakthrough for Improved Quantum Error Correction](#)

[AMD Acquires Enosemi to Advance Co-Packaged Optics Capabilities](#)

## Latest Webinars



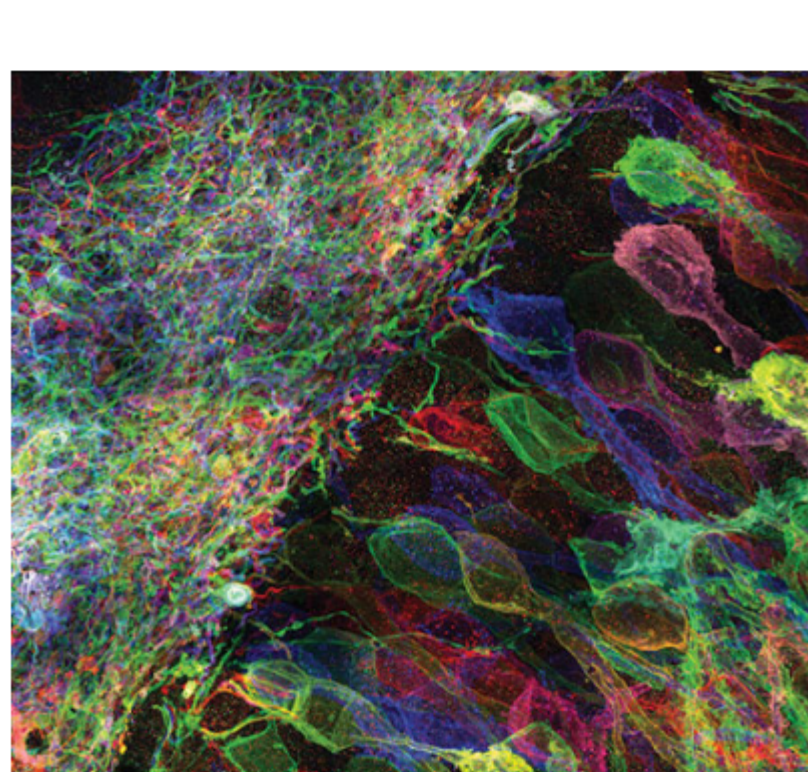
### The Evolution of Microscopy – Current Landscape and Considerations

**Wed, Jun 18, 2025 11:00 AM - 12:00 PM EDT**

David Biss of Optikos walks through a brief history and primer on microscopy, which was largely unchanged until the last 70 years. With that backdrop, this presentation delves into common types of modern microscopy: confocal microscopy, fluorescence microscopy, multiphoton microscopy, and superresolution microscopy. He explores a comparison of similarities and differences between these modalities and considerations for selection. Attendees will learn that the optical principles of lens design for microscope objectives have not changed significantly over time, i.e., the importance of contrast and resolution. However, new microscopy modalities have improved the core principles to address specific market applications. Specifically, microscopy has evolved significantly from early single-lens

devices to sophisticated techniques capable of observing individual molecules and complex biological processes. Key advancements include improvements in lens technology, the development of various light sources, the introduction of fluorescence microscopy, and the rise of super resolution microscopy techniques. Presented by Optikos.

[Register Now](#)



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

**Tue, Jun 24, 2025 1:00 PM - 2:00 PM EDT**

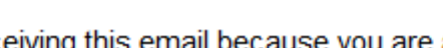
It was discovered that one can physically magnify biological specimens by synthesizing dense networks of swellable polymer throughout them, and then chemically processing the specimens to isotropically swell them. This method, which is called expansion microscopy, enables ordinary microscopes to do nanoimaging – important for mapping molecules throughout cells, tissues, and organs. As a second example, Ed's team serendipitously discovered that microbial rhodopsins, genetically expressed in neurons, could enable their electrical activity to be precisely controlled in response to light. These molecules, now called optogenetic tools, enable causal assessment of how neurons contribute to behaviors and pathological states, and are yielding new candidate treatment

strategies for brain diseases. Finally, the development of new strategies such as robotic directed evolution, fluorescent reporters enable the precise measurement of signals such as voltage. To reveal relationships between different molecular signals within a cell, there is work of developing spatial and temporal multiplexing strategies that enable many such signals to be imaged at once in the same living cell.

[Register Now](#)

#### Call for Articles

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](mailto:editorial@Photonics.com), or [use our online submission form](#).



We respect your time and privacy. You are receiving this email because you are a Photonics Media subscriber, and/or a member of our website, Photonics.com. You may use the links below to manage your subscriptions or contact us.

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

[Unsubscribe](#) | [Subscribe](#) | [Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949  
© 1996 - 2025 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office. Reproduction in whole or in part without permission is prohibited.

