



## Weekly News



### OFC Celebrates 50 Years with Bold Breakthroughs

*Photonics Spectra* Now is taking a closer look at some of the breakthroughs showcased at OFC. Among the many advancements making waves: a new chiplet platform from Hyperlight, a modular LightBundle interconnect platform from Avicena, a demonstration of a 1.6T silicon photonics light engine from Marvel Fusion, a new line of data center solutions and optical fibers from Corning, and the latest optical chiplet from Ayar Labs.

[Watch Now](#)



### EPIC Adds Board Members, Issues Awards at Annual Meeting

At its 2025 Annual General Meeting this week, the European Photonics Industry Consortium (EPIC) appointed Claire Valentin, Chief Strategy Officer at Exosens, and Maria Chiara Carozza, president of Italian national research council CNR, as new members of EPIC's board of directors. [Read Article](#)



### Eye-Tracking Technique Based on 40K Surface Points

Eye-tracking technology is critical in virtual and augmented reality headsets, scientific research, medical and behavioral sciences, automotive driving assistance, and industrial engineering. Tracking the movements of the human eye with high accuracy, however, is a daunting challenge. Researchers at the University of Arizona Wyant College of Optical Sciences have demonstrated an approach that integrates deflectometry with advanced computation. The method, the researchers said, has the potential to significantly improve state-of-the-art eye-tracking technology. [Read Article](#)

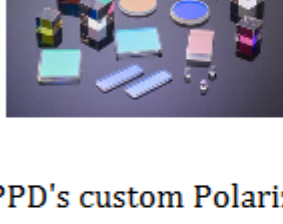


### Luminate NY Names Companies in Eighth Cohort

Empire State Development has named the 10 companies selected to participate in round eight of the Luminate NY accelerator program, investment fund, and competition. Each finalist will receive an initial investment of \$100,000 and will have the chance to compete for up to \$2 million in follow-on funding upon completion of the program. [Read Article](#)



## Featured Products & Services



#### HE Laser Mirrors & Beam Splitters

Perkins Precision Developments LLC

PPD's custom Polarizing beamsplitter cubes, dichroic laser mirrors, and output couplers exhibit both low absorption and high damage thresholds (20J!), making them ideal for use with high-energy Nd:YAG and fiber lasers as well as other high-power pulsed and CW laser systems.

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#### Compact Autonomous Infrared Camera Xi1M

Optris Infrared Sensing LLC

The Optris Xi 1M, a short-wavelength infrared camera, excels in noncontact thermal imaging of challenging objects. It accurately measures surface temperatures of hot metals, ceramics, and semiconductors. With an autonomous operation mode and motorized focus, it offers reliability and ease in industrial settings without additional hardware.

[Visit Website](#)

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



## More News

[Semiconductor Chip Startup Retym Launches with \\$180M](#)

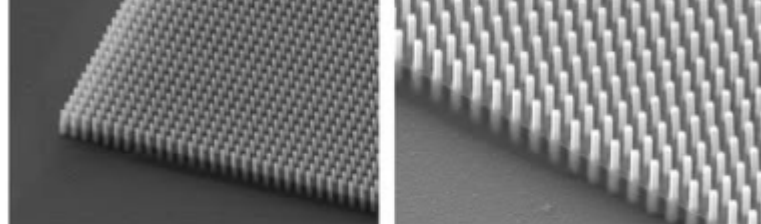
[Aeluma to List on Nasdaq, Expand Business Operations](#)

[Black Semiconductor Acquires Applied Nanolayers](#)

[PhotonDelta and Silicon Catalyst Partner to Drive Innovation for Startups](#)

## Latest Webinars

#### Bilayer Metasurfaces



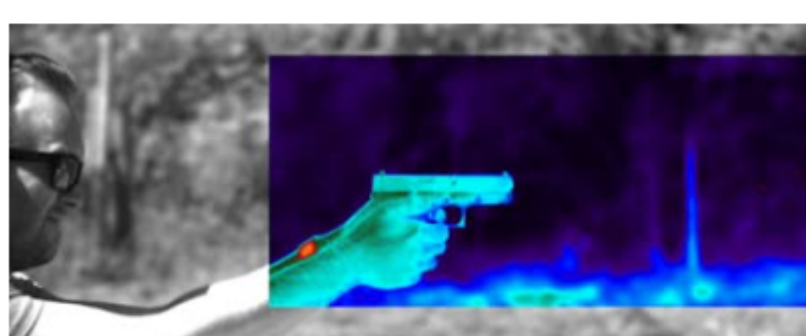
imaging, a new type of holography with control of polarization in the far-field and Mueller matrix imaging. Polarization metaoptics has led to an error-free biometric authentication system for smartphones. Federico Capasso will present recent developments in large-area metalenses for astrophysics as well as high-efficiency broadband metalenses. He will conclude with recent work on bilayer freestanding metasurfaces and the new functionalities that they enable.

[Register Now](#)

### Multifunctional Metaoptics: From Science into Your Smartphones

Wed, Apr 9, 2025 1:00 PM - 2:00 PM EDT

Metasurfaces provide an almost unlimited toolbox to design the wavefront of light in search of new phenomena and applications. Using matrix Fourier optics aided in the design of spatial distribution of Jones matrices to achieve polarization sensitive



### FLIR MIX – A Breakthrough in Infrared and Visible Imaging

Thu, Apr 10, 2025 11:00 AM - 12:00 PM EDT

Until now, researchers have had to choose between thermal and visible imaging: one reveals heat signatures while the other provides structural detail. Recording both and trying to align

them manually—or harder still, synchronizing them temporally—can be inconsistent and time consuming. The result is data that's close but never quite complete. The new FLIR MIX is a game changer, capturing and synchronizing high-speed thermal and visible imagery at up to 1,000 frames per second. Visible and high-performance infrared cameras with FLIR Research Studio software work together to deliver one dataset with perfect spatial and temporal alignment—no missed details or second guessing, just a complete picture of fast-moving events. Presented by FLIR.

[Register Now](#)

## All Things Photonics



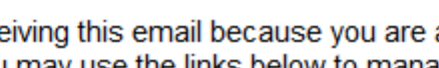
### Directed Energy: Into the Battlefield and Out of this World — With Martin Richardson

**Martin Richardson**, director of the University of Central Florida's Center for Directed Energy, joins us to discuss the progression of directed energy technology, from historic uses to its emergence in today's battlefields, and where we might see it in the future. The conversation covers the multidisciplinary nature of the technology, its challenges, and potential use cases beyond the battlefield, and beyond the planet.

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#### 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](#).



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