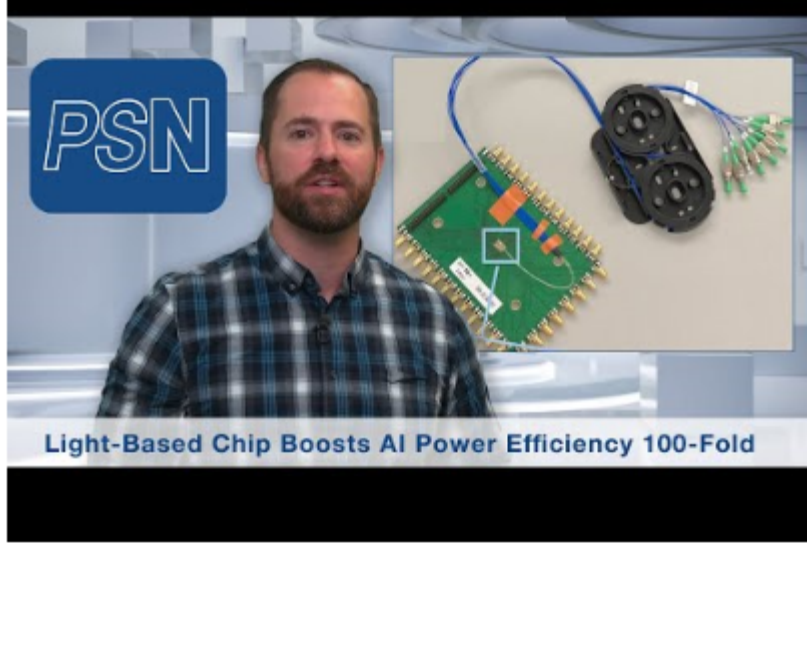




## Weekly News

**OHARA**



### Light-Based Chip Boosts AI Power Efficiency 100-Fold, \$1B Investment in AI

A new light-based chip promises to boost AI energy efficiency 100x. Researchers may have found a solution to chromatic aberration in ultra-flat optics. Quantum companies are pulling in billions of dollars from investors. ASML is partnering with Mistral AI to apply AI models across their platform. And smart windows could help keep you cool in the summer and warmer in the winter. These stories on a new edition of Photonics Spectra Now! Sponsored by QED Technologies.

[Watch Now](#)

### Light-Based Chip Boosts AI Power Efficiency 100-Fold

Artificial intelligence systems are increasingly central to technology, powering everything from facial recognition to language translation. But as AI models grow more complex, they consume vast amounts of electricity — posing challenges for energy efficiency and sustainability. A new chip developed by researchers at the University of Florida could help address this issue by using light, rather than just electricity, to

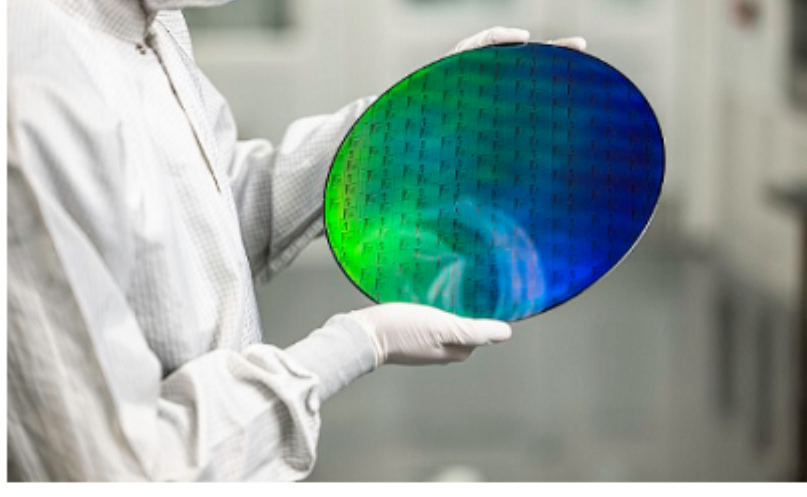
perform one of AI’s most power-hungry tasks. [Read Article](#)



### Siemens and TRUMPF Partner on Digital Manufacturing, AI Readiness

Siemens and TRUMPF have established a partnership to elevate industrial production by harnessing advanced digital manufacturing solutions. The collaboration reportedly joins Siemens’ Xcelerator portfolio with TRUMPF’s machine-building and software expertise, and builds on regular exchanges among development teams at Siemens and

TRUMPF. According to the companies, the partnership addresses a critical challenge in modern manufacturing, the disconnect between information technology and operational technology systems which has historically hindered production efficiency and innovation. [Read Article](#)



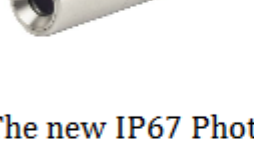
### PsiQuantum Raises \$1B, Collaborates with NVIDIA

Quantum computing leaders PsiQuantum has raised \$1 billion in funding, enabling the company to break ground on utility-scale quantum computing sites in Brisbane, Australia and Chicago. PsiQuantum said the financing also supports the company’s planned deployment of large-scale prototype systems to validate systems architecture and integration. The round values the company at \$7 billion, and includes support

from NVentures, NVIDIA’s venture capital arm. PsiQuantum’s collaboration with NVIDIA now spans multiple development areas, including quantum algorithms and software, GPU-QPU integration and PsiQuantum’s silicon photonics platform. [Read Article](#)



## Featured Products & Services



#### New IP67 Digital Laser Module

**ProPhotonix Ltd.**

The new IP67 Photon PRO laser has been engineered to deliver robust, high-performance in harsh environments or difficult-to-access locations. This compact laser combines stainless steel housing, digital control, and near end-of-life monitoring that uniquely ensures the reliability of your system.

[Visit Website](#)

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#### Simplify Your Test Bench Power Requirements

**Highland Technology Inc.**

The P940 allows you to mix and match DC and 3-phase AC supplies, loads, and more in a single 3U chassis with a unified Ethernet interface with programmable monitor outputs.

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



## More News

[Cailabs Secures \\$67M to Fuel Optical Ground Station Ramp-up](#)

[Newly Formed EvolvOptic Acquires DiMaxx Technologies](#)

[Researchers Solve Chromatic Aberration in Metalens Imaging](#)

[Opticore up to \\$14M in Funding as Company Seeks to Advance Photonic Computing Chips](#)

## Latest Webinars



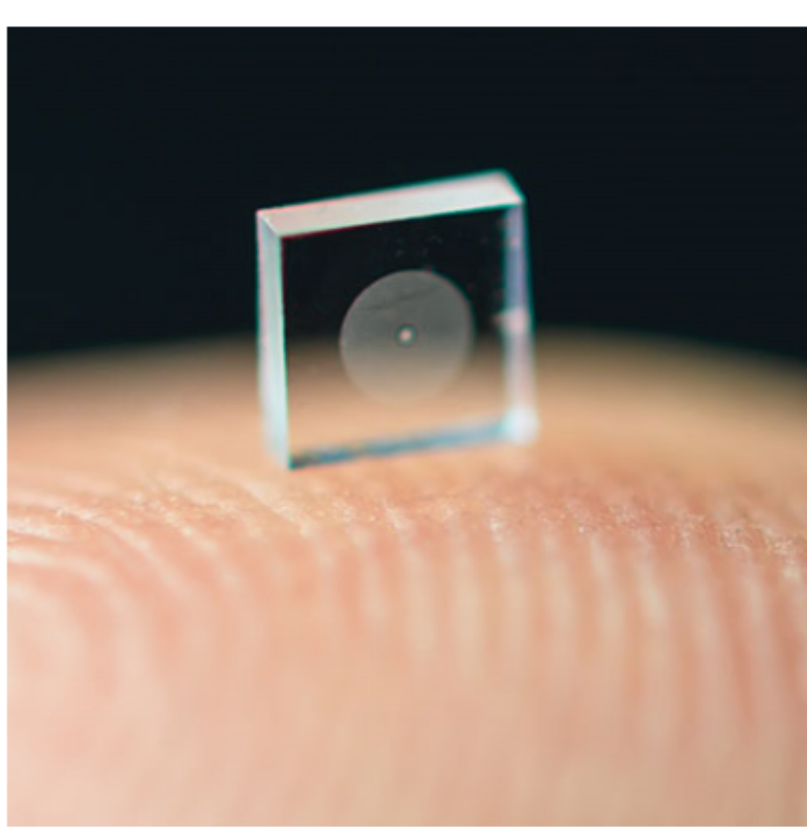
### Metrology in Manufacturing: How Smart, Inline Metrology Can Set Your Optical Assembly Program Up for Success

**Wed, Sep 24, 2025 11:00 AM - 12:00 PM EDT**

A successful optical assembly program depends on meeting goals for quality, cost, and delivery. This session examines how optical metrology—when strategically integrated throughout the manufacturing process—can directly support these objectives. From incoming component inspection to in-process checks and final functional testing, participants will explore where metrology adds the most value and where it may introduce unnecessary cost or complexity. The presentation will offer a balanced view of both benefits and limitations, empowering manufacturers to make informed decisions about metrology deployment. Real-world case studies will illustrate practical

applications, helping professionals translate theory into effective process improvements. This session is especially relevant for those in manufacturing, quality, NPI, and engineering roles responsible for optical or optomechanical assembly production. Presented by Optikos.

[Register Now](#)



### Metasurface Optics for Information Processing and Computing

**Thu, Oct 9, 2025 1:00 PM - 2:00 PM EDT**

Metasurface optics—ultrathin, nanostructured elements capable of precise light manipulation—are revolutionizing optical information processing. By co-designing optical hardware with computational algorithms, these systems enable complex operations like spatial convolutions directly in the optical domain. This hybrid analog-digital approach offers new possibilities for faster, more efficient imaging and vision systems, while posing exciting challenges at the intersection of photonics, machine learning, and device integration. Sponsored by Moxtek.

[Register Now](#)

## All Things Photonics



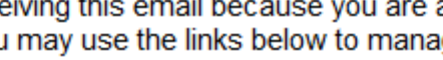
### OIF at ECOC 2025 — With Nathan Tracy and Mike Klempa

In the lead-up to the European Conference on Optical Connectivity 2025 in Copenhagen, “All Things Photonics” chats with OIF board president **Nathan Tracy** and board member **Mike Klempa**. The discussion focuses on the Forum’s agenda for the conference, including a multi-vendor demonstration with 35 members from its partner ecosystem. Current networking and connectivity bottlenecks are also featured in the conversation.

[Listen 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](#).

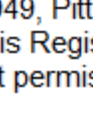


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