



## Weekly News

**OHARA**



## Featured Video

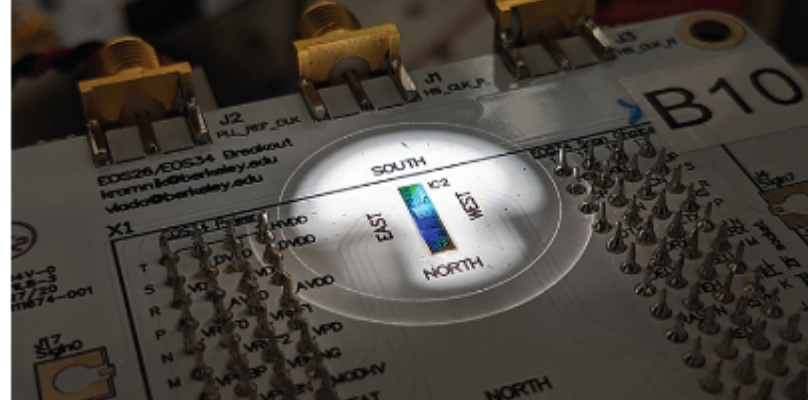


### Launching a Quantum Computer, Photonics Meets Electronics in a First-of-its-Kind Chip

STMicroelectronics and Metalenz have entered an agreement that could lead to major advancements in metasurface optics. Quix Quantum has raised more than \$17 million in its quest to deliver its first-generation, universal photonic quantum computer. P. Scott Carney has been named chair of the department of mechanical engineering at Stony Brook University. A team from the University of Illinois achieves photopumped lasing from a buried dielectric PCSEL, emitting

at room temperature and at an eye-safe wavelength. Scientists from Northwestern University, Boston University, and the University of California Berkely, say they've built the first photonic quantum system, into a traditional electronic chip. And we're breaking down the numbers from Laser World of Photonics. Sponsored by Thorlabs.

[Watch Now](#)



### Electronic-Photonic Quantum Chip Manufactured in Commercial Foundry

Researchers at Northwestern University, Boston University (BU) and the University of California, Berkeley (UC Berkeley) have built a photonic quantum system into a traditional electronic chip. The chip was fabricated in a commercial semiconductor foundry, pointing to its ability to manufactured for large-scale production. [Read Article](#)



### STMicroelectronics Secures Agreement with Metalenz for Meta-Optics Roll-out

STMicroelectronics (ST) and metasurface technology developer Metalenz have established a license agreement that broadens ST's capability to use Metalenz intellectual property to produce advanced metasurface optics while leveraging ST's platform combining 300-mm semiconductor and optics production, test, and qualification. [Read Article](#)



### XPANCEO Closes \$250M Funding Round to Bring XR-Integrated Contact Lens to Market

XPANCEO, a company developing smart contact lens technology, has closed a \$250 million series A funding round, reporting a \$1.35 billion valuation. The round will accelerate the company's path to commercializing smart contact lenses integrated with extended reality, real-time health monitoring, night vision, and zoom. [Read Article](#)



## Featured Products & Services



### 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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### Lightning-Fast LED Illumination

**CoolLED Ltd.**

From high-content imaging to

FRET and Fura-2 calcium imaging, lightning-fast LED microscopy illumination with the 8-channel pE-800 Series accelerates a range of applications.

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## More News

[RealSense Completes Spinout from Intel, Raises \\$50M](#)

[Waters, BD's Biosciences & Diagnostic Solutions Business, Announce Plans to Merge](#)

[Trinity College to Host Ireland's First "BioBrillouin" Microscope](#)

[EU Commission Project Optimizes Microstructuring Parameters in Aim to Cut Aircraft CO2 Emissions](#)

## Latest Webinars



### Photonics Systems for Human Health Care and Biomedical Research

**Tue, Jul 22, 2025 1:00 PM - 2:00 PM EDT**

Advanced photonics technologies that allow stable, intimate integration with living organisms will accelerate progress in biomedical research. These systems will also serve as the foundations for new approaches for monitoring and treating diseases. This presentation describes the core concepts in optics, optical materials, devices, and systems for two classes of such technologies: 1) colorimetric, wearable microfluidic systems for capture, storage, and quantitative biomarker analysis of eccrine sweat, and 2) cellular-scale optoelectronic probes for neuroscience studies in small animal models.

[Register Now](#)



### Quantum Sensing with Atomic Systems and Reconfigurable Instrumentation

**Wed, Jul 23, 2025 1:00 PM - 2:00 PM EDT**

Quantum sensing leverages the fundamental quantum behavior of atoms and light to measure weak signals with precision beyond that of classical methods. These measurements make use of trapped ions and cold atoms, and include applications such as magnetic field sensing, optical atomic clocks, and quantum gravimetry. Critical to these techniques are ultra-cold temperatures, coherent quantum control, and sensitive optical readout, which pose significant hardware challenges with regard to laser stabilization, timing, and noise suppression. During this presentation, find out how to generate and detect synchronized RF pulse trains, such as a Ramsey sequence, using a software-defined waveform generator and lock-in amplifier. Plus, see new

ways to stabilize your systems with a laser lock box and measure clock stability with a phasemeter, using a reconfigurable suite of instruments in a single device. Finally, in a live demonstration, learn how to deploy these instruments simultaneously for maximum flexibility, and how to use Python to interface with each. Presented by Liquid Instruments.

[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](#).



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