Thursday, June 26, 2025

PHOTONICS spectra

Weekly News

Featured Video

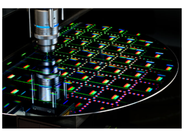
Complete Coverage of Laser World of Photonics 2025, Photonics Spectra Now Reports from Munich

Photonics Media has landed in Germany for the biggest trade show on lasers! On this special episode of Photonics Spectra Now, we're speaking with event organizers to learn more about the new forums coming to the show, as well as the biggest trends in the industry. Join us for a first-hand look at some of the most impressive displays, the growing World of Quantum, and the union between robotics and lasers!

Watch Now

PhotonDelta Teams with Luminate NY for Transatlantic Growth

Netherlands-based photonic chip accelerator PhotonDelta has collaborated with Luminate NY, an accelerator for startups with optics, photonics, and imaging enabled technologies, to support the growth of early-stage photonics companies across North America and the Netherlands. Through this collaboration, startups that are part of the PhotonDelta or Luminate can get access to the benefits from each other's accelerator programs. This will enable photonics startups to leverage these ecosystems and relationships to accelerate innovation and scaling into the global market. Read Article



Eindhoven University of Technology Opens R&D Institute

Eindhoven University of Technology (TU/e) is opening a new research institute dedicated to semiconductors, quantum, photonics, and the development of high-tech systems and chips of the future. The new institute merges an existing institute — the Eindhoven Hendrik Casimir Institute — with two initiatives: the High Tech Systems Center and the Future Chips Flagship. The institute's establishment aligns with recent policy initiatives like the European Chips Act and the Draghi-report, TU/e said. Both initiatives underscore the importance of Europe retaining control over the development, production, and application of technologies of strategic importance. Read Article

A Network of Optical Clocks Aims to Redefine the Second

Historically, the global standard for keeping time has been based on an average of signals from cesium microwave atomic clocks from around the world. Now, as the precision and stability of optical clocks steadily improve, there is growing momentum to redefine the International System of Units' second to use optical clocks instead. Current optical clocks are 100x times more accurate than the best cesium clocks and can measure time so accurately that they lose or gain less than one second over billions of years. Read Article

Featured Products & Services

Next-Gen Picosecond Laser Platform

Lumentum Operations LLC

The new PicoBlade Core ultrafast laser platform delivers high throughput, a compact footprint, and flexible configurability across IR, green, and UV wavelengths.

Visit Website | Request Info

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.

Visit Website | Request Info

Looking for something else? Check the Photonics Marketplace.

PHOTONICS marketplace

More News

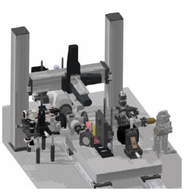
Diamond Technologies Acquires Akhan Semiconductor

EU Project Develops Lithium Niobate On Insulator Platform

3D Printing Method Delivers Intricate Designs — and Reduces Waste

Doublet Design Overcomes a Metalens Bottleneck in Microscopy

Latest Webinars

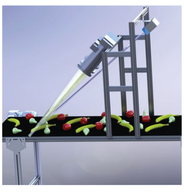


Autonomous Multiscale Tissue Imaging

Thu, Jul 3, 2025 1:00 PM - 2:00 PM EDT

Kevin Dean will highlight the successful application of MCT-ASLM across diverse model systems. By integrating automation, extensive volume coverage, and subcellular resolution, MCT-ASLM opens new avenues for comprehensive tissue analysis. The platform holds immense promise for accelerating discoveries in neuroscience, oncology, and developmental biology, offering new insights into the complexities of biological systems. Multiscale Cleared Tissue Axially Swept Light-Sheet Microscopy (MCT-ASLM) addresses a core challenge in biological imaging: visualizing rare events or structures distributed across large, complex tissues. By combining centimeter-scale fields of view with targeted, high-resolution imaging at ~300 nm, this new microscopy platform enables researchers to examine entire specimens and seamlessly zoom in to investigate finer cellular or subcellular detail. Sponsored by Jenoptik.

Register Now



Optimization of LED Illumination for Hyperspectral Imaging Applications

Wed, Jul 9, 2025 11:00 AM - 12:00 PM EDT

This webinar introduces key principles of inline hyperspectral imaging and focuses on the often-overlooked design and integration of illumination. Attendees will learn how to optimize system throughput, sensitivity, and spectral accuracy by properly matching illumination performance to the capabilities of their spectral imaging cameras. We will compare traditional broadband sources, such as tungsten-halogen lamps, to modern solid-state LED systems—evaluating factors such as spectral coverage, uniformity, angular distribution, thermal stability, and cooling techniques. Whether you are developing new HSI camera systems or integrating spectral imaging into existing automation platforms, this webinar will offer practical insight into achieving better results through optimized, application-specific illumination strategies. Hyperspectral imaging (HSI) is revolutionizing industries like food processing, materials recycling, and pharmaceuticals by enabling high-speed, non-contact identification of product characteristics. Yet, one of the most underestimated—and absolutely critical—determinants of overall system performance is the illuminator. This webinar will reveal how optimized, performance-driven LED illumination strategies can dramatically improve results, unlock new capabilities, and give your solutions a competitive edge in the marketplace. Presented by Innovation In Optics, Inc.

Register Now

All Things Photonics

Brightening the Future of Display Technologies — With Reza Chaji

Reza Chaji, CEO of VueReal, discusses current challenges in micro-LED display technologies, and the potential of VueReal's MicroSolid Printing platform to address them, as well as to push the technology further. Our conversation covers manufacturing, sensor integration, and the applications in mobile devices, augmented reality, medical diagnostics, and safety technologies.

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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, or use our online submission form.

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