



Weekly News



**SPIE's Third Annual Photonics Summit, and National Security Concerns Regarding Chinese Display Tech**

Photonics Spectra Now is giving you a recap of the third annual SPIE Photonics Summit. There, U.S. federal officials talked about the importance of advancing the industry locally. All this happening while one congressman is demanding that the Pentagon takes action against two Chinese display companies.

[Watch Now](#)



**Silicon Photonic Modulator Enables Atom Interferometry**

Researchers from Sandia National Laboratories are working to develop a motion sensor precise enough to reduce reliance on global positioning satellites. Until recently, a sensor like this would have filled a moving truck, but advancements are dramatically shrinking the size and cost of this technology.

[Read Article](#)



**SPIE Industry Summit Spotlights Policy Priorities, Business Development**

SPIE held its third Photonics Industry Summit in Washington, D.C. last week, convening photonics industry leaders with policymakers and officials from government agencies. The event offered a window into the U.S. government's priorities related to technology development, trade, and funding, and featured progress reports on government programs and initiatives.

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**Method Measures Trapped Qubits While Keeping Others Safe, Close**

Researchers from the University of Waterloo have demonstrated a method to measure and reset a trapped ion qubit to a known state without disturbing neighboring qubits just a few micrometers away. The researchers combined an ion trap with holographic beam shaping technology, precisely controlling laser light to overcome the bottleneck.

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Featured Products & Services

**FilmTek 4000 Robotic**  
**Bruker Nano Surfaces**  
 FilmTek™ 4000 is a fully automated, nondestructive optical property and thickness metrology tool that uses proprietary multi-angle reflectance technology to address the demanding process control needs of silicon photonics, photonic integrated circuits, and planar waveguides.

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**Taking Orders for the Next SEBI RT1000 Development Kits!**

**Wooptix**

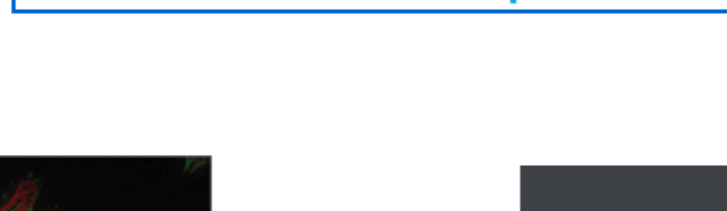
The SEBI RT1000 from

Wooptix is an innovative wavefront phase camera that delivers high-resolution real-time phase imaging for applications such as optical metrology, material inspection, and biomolecular research. Its advanced technology enables precise nanometric measurements with high accuracy and autofocus capabilities.

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Looking for something else? Check the Photonics Marketplace.



More News

[Nicslab's Fabless Chip Technology Earns First Place at Luminare 2024](#)

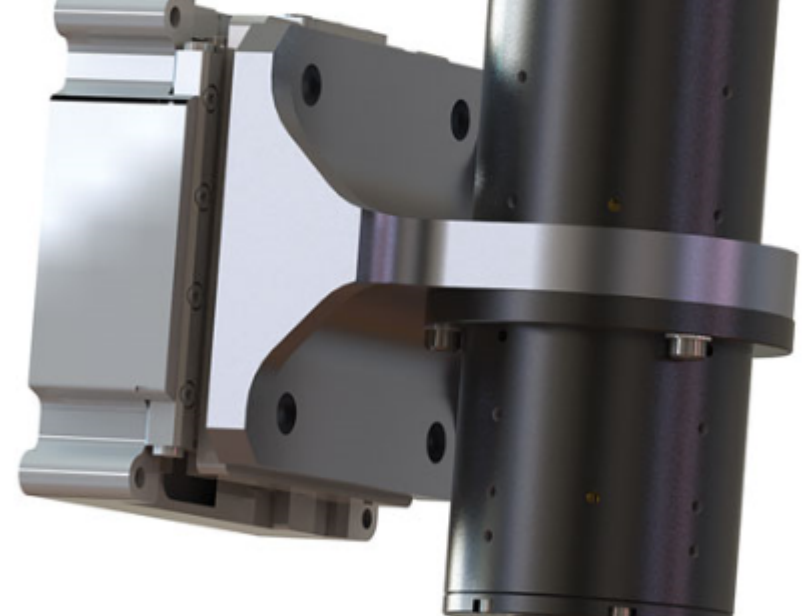
[European Initiative's Quantum Sensors Aim to Deliver Climate Insights](#)

[IonQ Awarded \\$54.5M Contract with U.S. Air Force Research Lab](#)

[NASA's Terabyte Infrared Laser Demo Completes Mission](#)



Latest Webinars

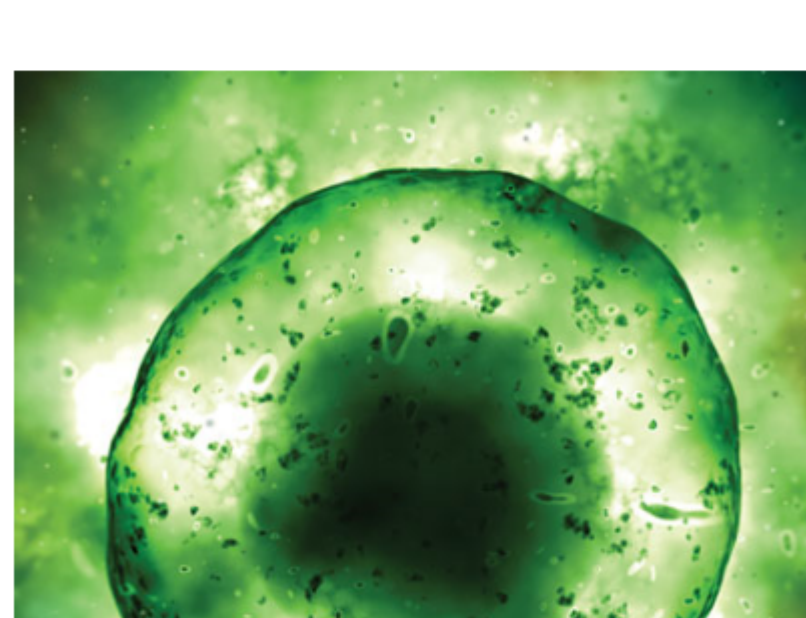


**Accelerating Life Science Imaging Instrument Development with Unrivaled Performance and Speed**

Wed, Oct 9, 2024 2:00 PM - 3:00 PM EDT  
 Developing a high-performance fluorescence microscope is a challenging task in which all subsystems must work in harmony. In this webinar, Joseph Mulley and Jim Feeks from IDEX Health & Science introduce key system architecture decision points and discuss their pros and cons. By properly considering the impact of each decision on the full optical system, it is possible to design a more cohesive microscope that achieves a desired performance. This presentation then introduces the Melles Griot XPLAN CCG Lens Series and Dover Motion DOF-5 precision Z-stage and explains how these components can enable a high-performance breadboard microscope under an accelerated timeline. Join this educational webinar led by industry experts

who provide insightful knowledge of fluorescence microscope design and learn how to stay ahead of the curve by maximizing an imaging system for an application. Presented by IDEX Health & Science.

[Register Now](#)



**Multiplex Imaging: Camera, Lights, Optics, Action!**

Tue, Oct 29, 2024 10:00 AM - 11:00 AM EDT  
 Multiplex imaging, either multi-color fluorescence or multispectral absorption and reflection imaging, is rapidly gaining popularity in the life sciences and medical arenas. Being able to image samples at a variety of wavelengths in live or fixed samples provides a depth of information that was never possible to attain with conventional microscopy. From deeper tissue penetration to enhanced surgical guidance and improved disease detection, multiplex imaging enhances medical diagnostics with noninvasive, detailed, live insights into pathological and biological states of tissue for better patient outcomes. This webinar discusses the options and requirements for performing multiplex imaging from the illumination to the detection and the optics in between to navigate the light to and

from the sample. Presented by Excelitas Technology Corp.

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All Things Photonics



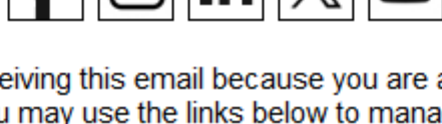
**Exploring the Potential of Silicon Photonics and PICS**

In the inaugural episode of Season 10, we discuss GlobalFoundries' Fotonix project and the potential of silicon photonics with **Anthony Yu**, Vice President of GlobalFoundries' Computer and Wired Infrastructure Business Unit. Later, we speak with **John Jost**, co-founder of Enlightra, a Swiss startup creating chip-scale optical frequency combs. Jost speaks to the applications of these miniaturized devices as they relate to telecommunications, and perhaps in the future, scaled-down optical clocks.

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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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