

### Weekly News





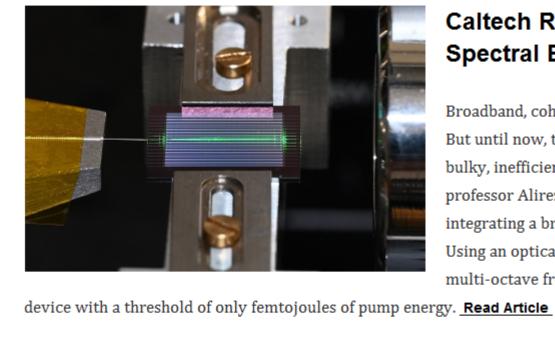
## SPIE Joins 50+ Scientific Groups Expressing Concern on an Executive Order for Scientific Grants

all the highlights, including emerging tech and award-winning companies. SPIE joins a massive list of scientific organizations writing to Congress to express concern over an executive order on scientific grants. The groups say this latest order could lead to politicizing areas of research. Researchers from the California NanoSystems Institute at UCLA have developed a new light-emitting material that could transform photonics. IonQ is reporting the successful demonstration of visible-to-telecom wavelength frequency conversion. Germany

ECOC Exhibition 2025 is wrapping up in Copenhagen. We have

announces plans to invest more than \$40 billion in space-related defense systems. Photonics21 is asking European leaders to invest €2 billion in photonics. Quantum Computing Inc. raises \$500 million in the private sale of common stock. And SPIE Photonics West is now open for registration! Sponsored by Edmund Optics and Thorlabs. Watch Now

Samples



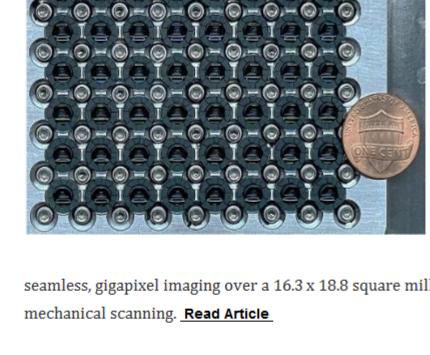
## Broadband, coherent light sources are highly valued in R&D. But until now, they have been difficult to achieve without

Spectral Broadening On-Chip

Caltech Research Enables Coherent

bulky, inefficient tabletop devices. A Caltech team led by professor Alireza Marandi developed an efficient solution to integrating a broad spectrum of frequencies on a microchip. Using an optical parametric oscillator, the team demonstrated multi-octave frequency comb generation on a nanophotonic

Multi-Camera Microscope Produces Sharp Images of Large, Curved



## all the parts of a large sample in focus, but scanning reduces throughput, slowing the imaging process. To help large-area

Microscopy samples are seldom completely flat across a

centimeter-scale field of view. Mechanical scanning can keep

microscopy systems resolve trade-offs between field of view, resolution, and imaging speed, a team at Duke University developed a single-shot, re-imaging microscope that achieves seamless, gigapixel imaging over a 16.3 x 18.8 square millimeter field of view, at 0.84-µm half-pitch resolution, without Scalable 3D Micro-Printed Sensors

Promise Optofluidic Disease Detection

precise, label-free biosensing. However, scaling and integrating large-scale arrayed WGM microcavity sensors is



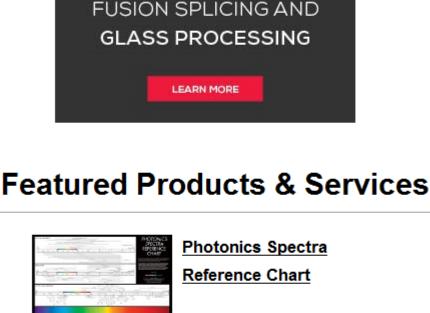
## mode (WGM) microcavity sensors; such devices provide

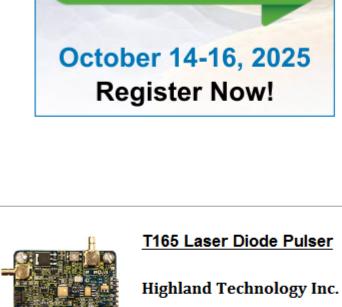
Early-stage disease diagnosis relies on the highly sensitive

detection of biomarkers, such as optical whispering-gallery-

Polytechnic University developed a 3D micro-printed WGM micro-laser sensor for sensitive on-chip biosensing.

**BioPhotonics** NYFORS\* ADVANCED LASER CONFERENCE

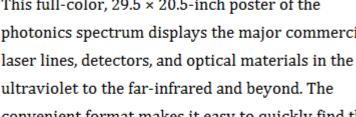




for OEM use in laser systems. Laser current, bias,

### This full-color, $29.5 \times 20.5$ -inch poster of the photonics spectrum displays the major commercial

Photonics Media



information you need.

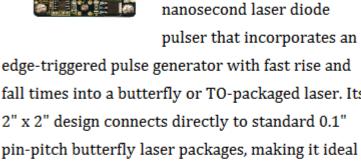
ultraviolet to the far-infrared and beyond. The convenient format makes it easy to quickly find the

Visit Website Request Info Looking for something else? Check the Photonics

GlobalFoundries Partners with Applied Materials, Egis

Photon IP Rebrands as Photon Bridge, Names CEO

Prior Scientific Acquires Kinetic Systems



edge-triggered pulse generator with fast rise and fall times into a butterfly or TO-packaged laser. Its

The T165 is a picosecond to

and pulse widths are settable with onboard trimpots or via external analog inputs. Visit Website Request Info

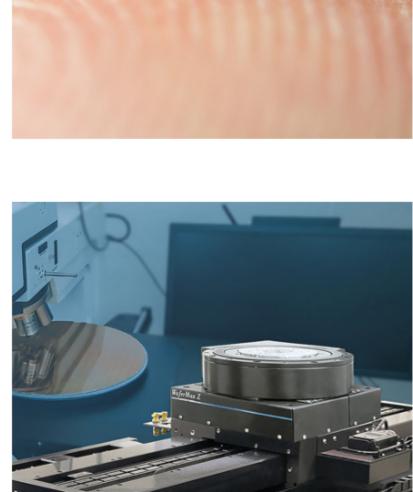
Marketplace.

**PHOTONICS** 

marketplace<sup>6</sup>

## **Latest Webinars**

More News



All Things Photonics

# Credo Expands Systems Portfolio, Acquires Micro-LED Developer Hyperlume

Metasurface Optics for Information

of precise light manipulation—are revolutionizing optical

computational algorithms, these systems enable complex operations like spatial convolutions directly in the optical domain. This hybrid analog-digital approach offers new

Metasurface optics—ultrathin, nanostructured elements capable

information processing. By co-designing optical hardware with

Processing and Computing

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

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 Advanced Motion Control for

Join our webinar on advanced motion control for semiconductor

systems enable cutting-edge applications like wafer inspection, SWLI, SEM/FIB, and AFM. Learn about compensating for error

for anyone in the semiconductor industry seeking to enhance

accuracy, speed, and reliability in their manufacturing

inspection and metrology. Discover how precision motion

motions, system-level optimization, and advanced control

Semiconductor Metrology

Thu, Oct 16, 2025 1:00 PM - 2:00 PM EDT

techniques to achieve nanometer-level precision and maximize throughput. Explore industry-leading solutions pushing the boundaries of semiconductor metrology. This webinar is ideal

Register Now

operations. Presented by Aerotech.

The Power of Inertial Confinement Fusion — With Omar Hurricane and Mike Campbell There is an ever-growing demand for power, whether it is to supply electricity for our power-hungry AI servers or to keep the lights on in more homes. Inertial confinement fusion has been referred to as one of the most promising paths to thermonuclear fusion, and it could one day provide a path to more efficient power. Omar Hurricane and Mike Campbell formed a professional relationship and a lasting friendship

through their time together at the Lawrence Livermore

National Laboratory. In this episode of "All Things Photonics",

they discuss the progress made in inertial confinement fusion

and what this technology will need to reach its full potential.

Listen Now

Call for Articles



Questions: info@photonics.com

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949 © 1996 - 2025 Laurin Publishing, All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office. Reproduction in whole or in part without permission is prohibited.

LAURIN PUBLISHING

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.

Unsubscribe | Subscribe | Subscriptions | Privacy Policy | Terms and Conditions of Use