



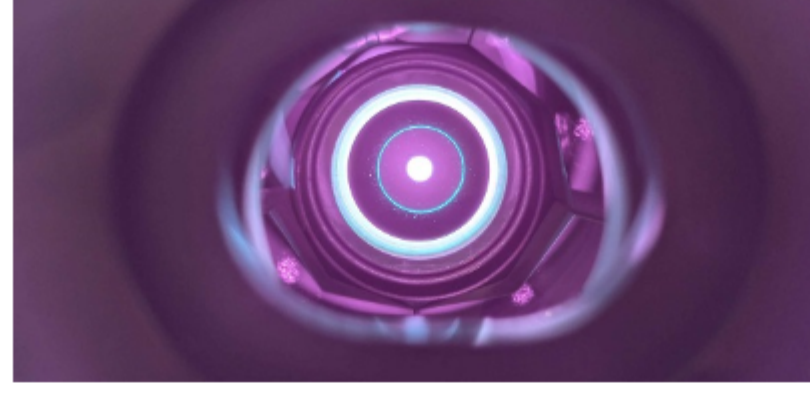
Weekly News



Research Group Breaks Ultrashort-Pulse Laser Record and More From VISION 2024

A research team in Zurich breaks an ultrashort-pulse laser record. The ETH Zurich team led by Ursula Keller is behind that breakthrough. PhotonDelta launches a PIC-based contest that could land one engineer a €2 million loan from PhotonDelta. And we have big winners from VISION 2024 and a closer look at some of the biggest booths at the show. All this on *Photonics Spectra* Now. Sponsored by Reynard Corporation and Hamamatsu Corporation.

[Watch Now](#)



Keller-Led Team Posts an Ultra-Short Pulse Record

Researchers at ETH Zurich have developed a laser that can produce extremely short pulses with peak powers up to 100 MW and 550 W of average power. The researchers, led by Ursula Keller, a professor at the Institute for Quantum Electronics, report that the achievement marks a record —

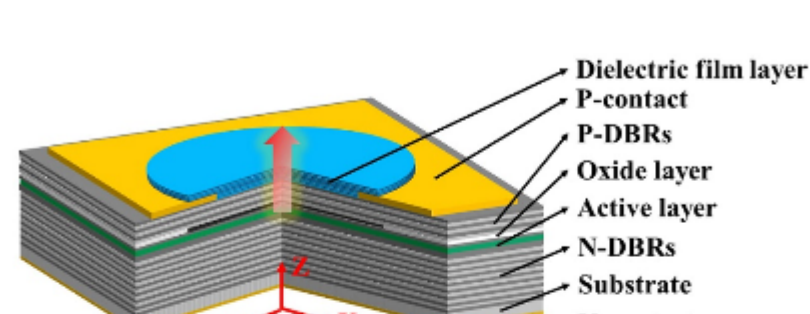
surpassing the previous reported maximum by more than 50%. The demonstrated pulses are the strongest pulses ever created by a laser oscillator. [Read Article](#)



About Lasers and a Dinosaur

Lithuania is a small country, roughly twice the size of the State of Maryland, and with a population of 2.9 million. Its status as a photonics hotbed, especially in ultrashort pulsed laser technology, owes largely to the many reputable brands that headquarter in Vilnius, the nation's capital city.

[Read Article](#)



VCSEL Performance Improves with Mode Filtering Using Metal Apertures

Researchers at the Changchun Institute of Optics, Fine Mechanics, and Physics of the Chinese Academy of Sciences developed a mode filtering technique that uses metal

apertures to flexibly regulate transverse modes in VCSELs. The new metal-dielectric film mode filter structure demonstrates the potential of metal apertures to enhance optical mode control and improve the performance of single-mode VCSELs. [Read Article](#)

Featured Products & Services



Gem - Solid-State Continuous-Wave Laser

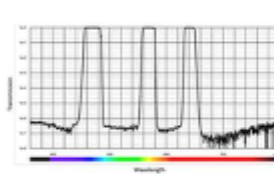
Novanta Photonics,

Precision Medicine & Manufacturing

Air-cooled solid-state continuous-wave laser designed for easy integration into OEM instrumentation, delivering high power in a compact platform. Ideal for a range of applications from super resolution microscopy, Raman, holography through to semi-conduction inspection and particle counting.

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Multi-Bandpass Filters

Delta Optical Thin Film A/S

Delta Optical Thin Film has

introduced a range of Multi-Bandpass Filters that transmit two or more distinct wavelength bands while blocking others. These filters are well suited for multi-purpose point-of-care instruments using multiple excitation and/or multiple emission wavelengths.

[Visit Website](#)

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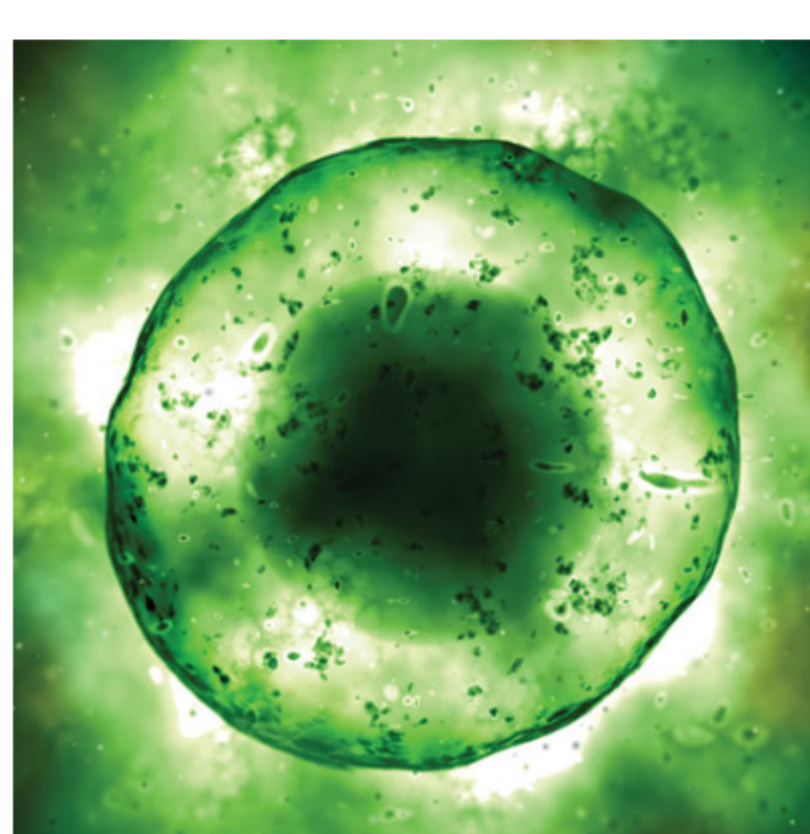
Looking for something else? Check the Photonics Marketplace.



More News

- [Silicon Photonics Company Xscape Photonics Raises \\$44M](#)
- [Leonardo DRS and BlueHalo Demonstrate Directed Energy Weapon](#)
- [Fraunhofer IOF Team Delivers Optical Assembly for Emissions Monitoring Mission](#)
- [Surgical Microscope Uses OCT to Define Precise Tumor Margins](#)

Latest Webinars



Multiplex Imaging: Camera, Lights, Optics, Action!

Tue, Oct 29, 2024 10:00 AM - 11:00 AM EDT

Multiplex imaging, either multicolor fluorescence or multiplex absorption, either multicolor fluorescence or multiplex absorption 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 diagnosis with noninvasive, detailed, live insights into pathological and physiological 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.

[Register Now](#)

All Things Photonics

All About Optical Interconnects — with Terry Thorn

Terry Thorn, vice president commercial operations at optical interconnect solutions developer Ayar Labs, discusses the ever-evolving road to overcoming AI system bottlenecks, and how optical solutions are poised to provide answers. Industry-specific challenges, plus Ayar's own innovations, are spotlighted in this exclusive interview.

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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](#).



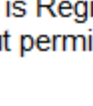
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