

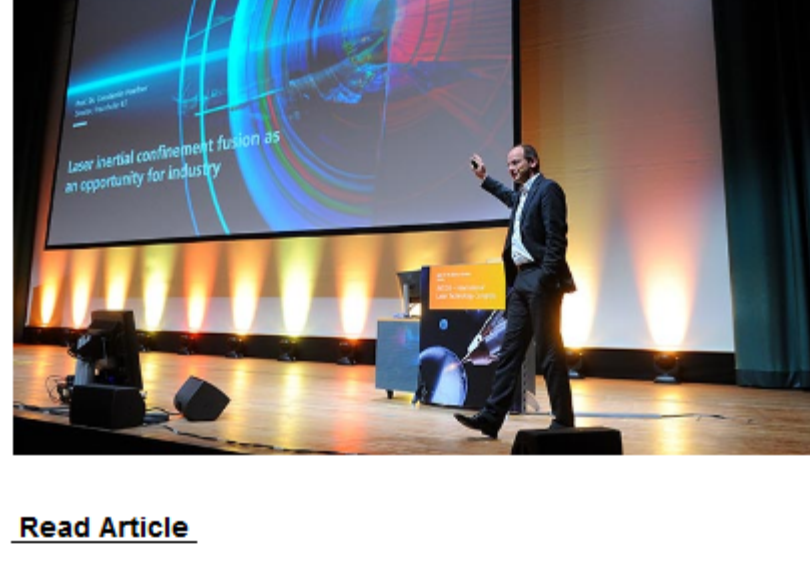


Weekly News

LATTICE MATERIALS
CZ GROWTH AND LENS MANUFACTURING BOZEMAN, MT

SILICON AND GERMANIUM OPTICS

- MEDICAL IMAGING LENS
- IR OPTICS
- LEO SATELLITE OPTICS



The Winds of Change Are Blowing Through the Photonics Industry

Every even year, the industrial laser community meets in the medieval city of Aachen, Germany, for the International Laser Technology Congress AKL. The three-day event convened 525 participants and 81 speakers from 21 countries this year for the congress' 14th iteration. The event is organized by the Fraunhofer Institute for Laser Technology ILT, which hosts one of Europe's largest research and application labs.

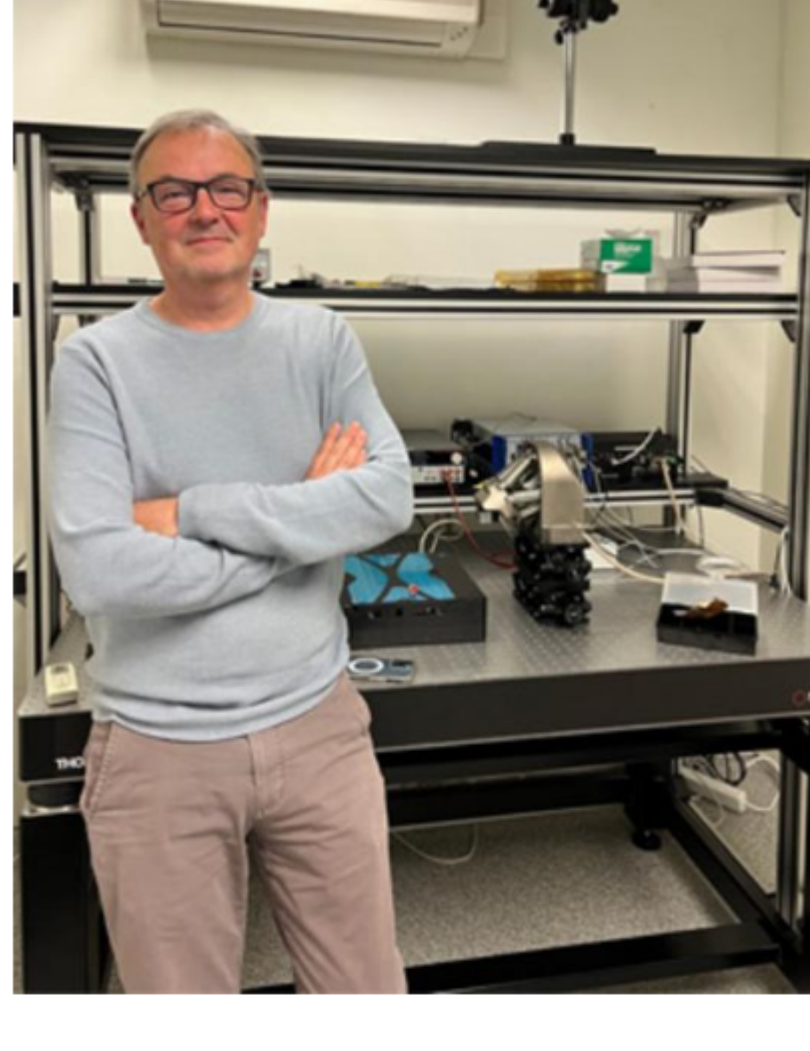
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3D Holography Integrated Glasses Could Unlock Mixed Reality

Researchers from Princeton University and Facebook creator Meta are working towards mixing the real and virtual worlds using high-definition 3D holographic images. The team has developed a spatial light modulator capable of projecting these images while fitting on a standard pair of glasses. The small optical device could be the foundation for a virtual and augmented reality display that is fully immersive to the human eye.

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Photonic Processor Boosts Multifunctionality for Next-Gen Networks and AI

A team from the Photonics Research Laboratory-iTEAM of the Universitat Politècnica de València and the company iPRONICS have developed a multifunctional, programmable photonic processor for applications in the telecommunications sector, data centers, and infrastructure for AI computing systems. The device leverages properties found in photonic systems such as high bandwidth and speed, while working synergistically with electronic processors.

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CO₂ laser glass-processing is designed to produce high-power and sensitive photonic components and complex structures. It guarantees contamination-free processing for fiber linear, 2D and gapless array splicing, ball lensing, end-capping, and many other challenging processes. NYFORS also manufactures automated high-precision solutions for fiber preparation, such as stripping, cleaving, recoating, and end-face inspection. NYFORS offers custom workcell automation solutions.

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OPTICAL DESIGN SUMMIT

May 22, 2024

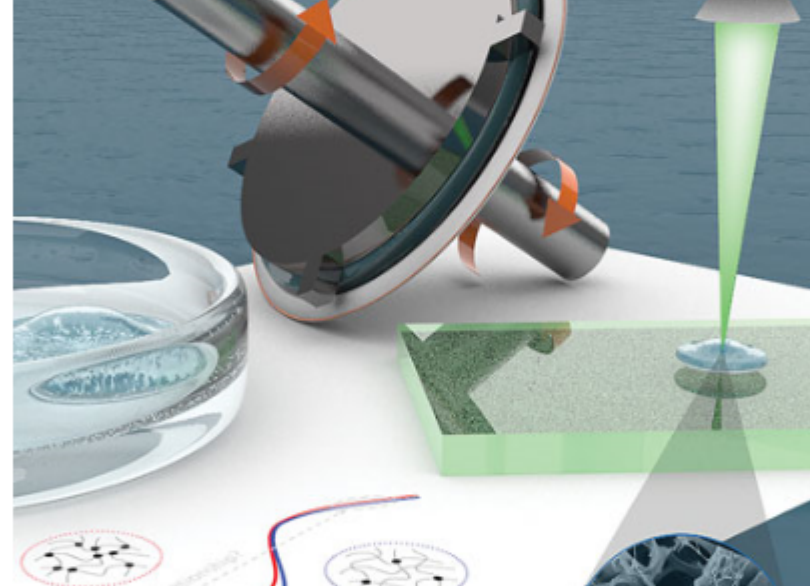
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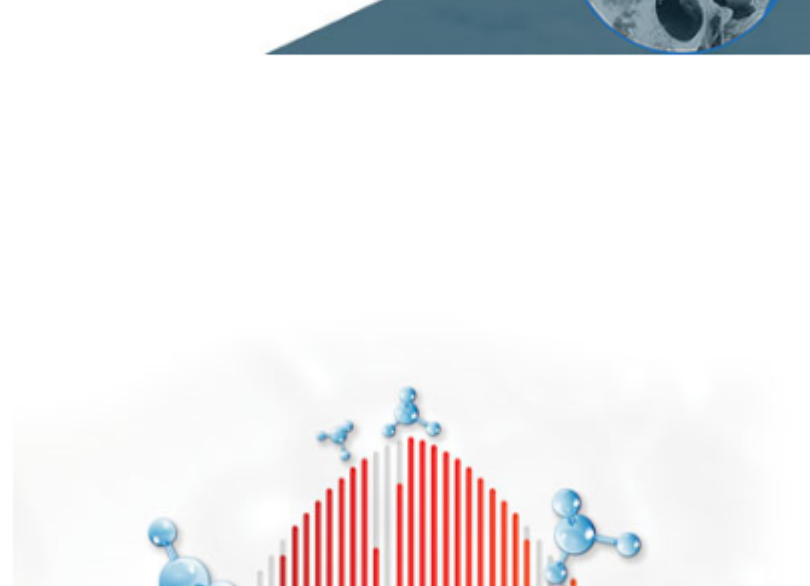


Brillouin Microscopy for Cell and Tissue Imaging

Wed, May 15, 2024 1:00 PM - 2:00 PM EDT

The interaction between phonon and acoustic phonons within materials, first described by Leon Brillouin, has been widely investigated to characterize the mechanical and physical properties of samples. To translate this technology to biomedical applications in which mechanical properties are often critical, Giuliano Scarcelli's lab has developed high-resolution spectrometers at high throughput and combined them with optical microscopes to yield 3D-imaging modalities that use label-free biophysical properties as contrast mechanisms for imaging. Scarcelli shares areas of application and future developments of this research. Sponsored by LightMachinery.

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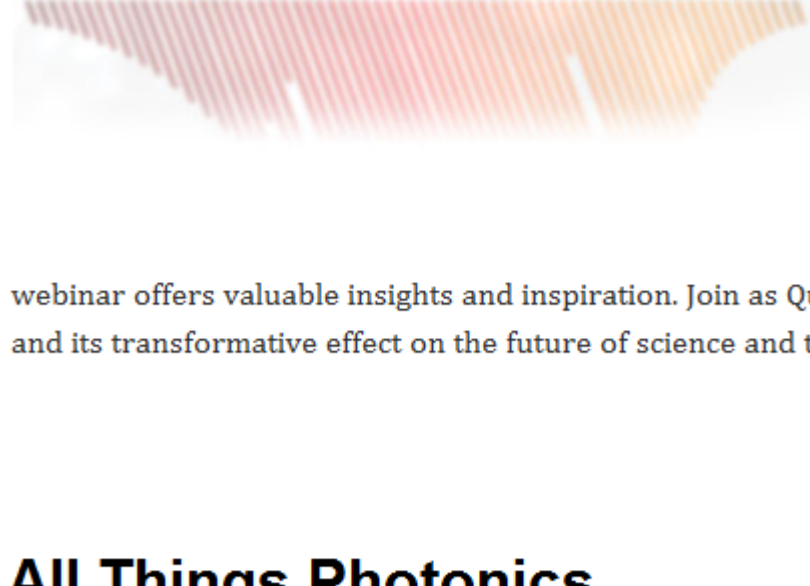
Optical Frequency Combs: The Pinnacle of Precision from the Visible to the MIR

Thu, May 16, 2024 11:00 AM - 12:00 PM EDT

In this webinar, Thomas Quenzel from Menlo Systems delves into the fundamental principles behind frequency comb generation and manipulation, shedding light on its transformative potential across multiple spectral domains. He shares about the power of precision measurement, where frequency combs serve as indispensable tools for metrology, spectroscopy, and beyond. From ultraprecise optical clocks to high-resolution molecular spectroscopy, discover how frequency comb technology enables unprecedented levels of accuracy and resolution in scientific research and industrial applications. For a seasoned researcher, industry professional, or enthusiast who is eager to uncover the cutting-edge developments in frequency comb technology, this webinar offers valuable insights and inspiration. Join as Quenzel unravels the vast potential of frequency comb technology and its transformative effect on the future of science and technology. Presented by Menlo Systems.

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All Things Photonics



Live from the EPIC Annual General Meeting and Summit 2024 — With Beate Sauter, Elizabeth Illy

Photonics Media comes to you from onsite at the 2024 Annual General Meeting of the European Photonics Industry Consortium (EPIC). The episode features fireside chats with Elizabeth Illy and Beate Sauter, head of marketing at HÜBNER Photonics and CEO of diode laser components manufacturer Lumics, respectively. EPIC's Carlos Lee hosts. Later, our Joel Williams discusses all things lasers for cinema with the acclaimed and award-winning Gregory Niven.

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