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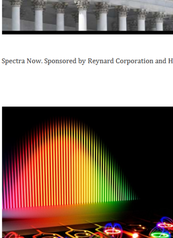
Thursday, October 31, 2024

PHOTONICS spectra

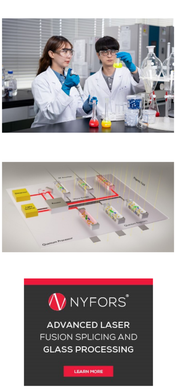
Weekly News



Lawmakers Call for Investigation into Chinese Photonics Companies, Celestial AI Acquires Patents

Washington lawmakers want to see federal officials investigate Chinese photonics companies, citing possible threats to national security. Celestial AI acquires silicon photonics patent portfolio from Rockley Photonics. Registration is now open for SPIE Photonics West 2025! Fusion startup Focused Energy announces plans for a new HQ in San Francisco. And Hyundai Mobis wants to project driving details on your windshield. All this on a new Photonics Spectra Now. Sponsored by Reynard Corporation and Hamamatsu Corporation.

Watch Now



Optical Computing Breakthrough Addresses Memory Limitations

An international team of researchers has demonstrated a solution that addresses current limitations of optical memory that have yet to combine nonvolatility, multibit storage, high switching speed, low switching energy, and high endurance in a single platform. Read Article

Samsung Display Develops and Implements Quantum Dot Recycling Technology

Samsung Display has developed a quantum dot (QD) ink recycling technology that the company said greatly increases the efficiency of the manufacturing process for its QD-OLED displays. The technology collects and recycles QD ink that would otherwise be wasted during the QD-OLED manufacturing process. Read Article

Research Consortium Advances Diamond Spin Photon Quantum Computing

Research Consortium Advances Diamond Spin Photon Quantum Computing Read Article

Featured Products & Services

P500 Benchtop Digital Delay and Pulse Generator

Highland Technology Inc.

P500 is a new benchtop digital delay and pulse generator from Highland Technology. From an internal or external trigger, it generates a time reference pulse and four pulse outputs programmable for delay, width, and high/low voltage levels. Time set resolution is 1 picosecond with single-digit-picosecond jitter.

Visit Website | Request Info

Optical Filters For Optical Sensors

Iridian Spectral Technologies

Iridian offers fluorescence filters designed to provide a high signal-to-noise ratio of the probes used in biomedical devices and medical instruments with laser or LED light sources such as cell analysis instruments, blood glucose detection devices and endoscope devices. These filters are capable of operation across single and multiple bands.

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CO_2 Laser Glass-Processing

NYFORS Teknologi AB

CO_2 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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Deep, Repeatable Laser Welds

Novanta Photonics, Precision Medicine & Manufacturing

Digitally controlled laser components and sub-systems that offer high quality, deep, repeatable welds for metals and thermoplastics. Versatile components and sub-systems easily adapt to different weld and part geometries, offering precise placement to weld even the smallest parts.

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Looking for something else? Check the Photonics Marketplace.

PHOTONICS marketplace

More News

Meta-Imaging Camera Provides Precise Monocular Depth Sensing

IPG Photonics to Acquire cleanLASER

Lidwave Secures $10M in Funding for 4D Lidar-on-Chip Tech

Ultrafast Logic Gate Could Act as All-Optical Switch for Fiber Optics

Latest Webinars

Fused Silica Step Index Fibers: Advanced Preform and Fiber Metrology

Tue, Dec 3, 2024 10:00 AM - 11:00 AM EST

This webinar discusses advanced preform and fiber measurement techniques for specialty fibers, with a particular focus on fibers produced using the POD (plasma outside deposition) process. In this process, fluorine-doped fused silica is applied to the outside of a high-purity core rod made of synthetic quartz glass to produce the refractive index step required for light guiding. Depending on the specific application wavelengths of these specialty fibers, various synthetic fused silica materials are available as core materials, which enable the production of specialty fiber preforms tailored to the application. The session begins with a brief introduction to the manufacturing process and typical applications of specialty fibers, followed by an in-depth examination of the characterization of the preforms and the resulting fibers. Presented by Heraeus Conamic.

Register Now

All Things Photonics

Wavefront Phase Imaging and Chalcogenide Glass — with Javier Elizalde and Kathleen Richardson

Senior editor Joe Kuczynski speaks with **Javier Elizalde**, COO of Wooptix, about the company's wavefront phase imaging technology. Following that, EPIC's Antonio Castelo catches up with **Tim Kunze**, CEO of Fusion Bionic, a startup specialized in the creation of advanced surface features via laser patterning. Closing out the episode, Jake Saltzman has a conversation with **Kathleen Richardson** of the University of Central Florida's College of Optics and Photonics about her work with chalcogenide glass.

Listen Now

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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