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Thursday, November 28, 2024

PHOTONICS spectra

Weekly News

Optimax Names New Leaders, Researchers Develop New MPox Detector

Optimax announces Joseph Spilman will take over as CEO. Corning offers to make changes following an antitrust investigation. And researchers develop a new system to detect MPox. Hear how this system could be used to prevent the next pandemic. These stories and more on Photonics Spectra Now. Sponsored by Reynard Corporation and Hamamatsu Corporation.

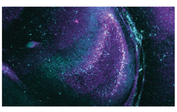
Watch Now

Solar Lasers Could Power Future Space Missions

An international research team is working to develop a technology that directly converts sunlight into laser beams in order to enable the transmission of power over vast distances. The approach, inspired by photosynthesis, could allow power to be transmitted between satellites, from satellites to lunar bases, or even back to Earth. Read Article

3D Printing Consortium Seeks to Speed Industrial Adoption

Citing 3D printing's ongoing transition from a niche innovation to a high-volume manufacturing method, TRUMPF, Renishaw, Ansys, EOS, and Nikon SLM are among the founding members of a consortium seeking to address manufacturer's challenges in the adoption and scaling of 3D printing technology for industrial use. Joined by HP, Materialise, and Stratasys, the Leading Minds consortium has identified its first initiative as the development of a common language framework for 3D printing. Read Article



Optogenetics Technique Could Replace Surgical Treatments for Seizures

Researchers from three University of California campuses collaborated on an optogenetics-based approach to controlling abnormal neural activity in humans. Their findings could someday provide an alternative to surgery for patients who have seizures that cannot be managed with medication.

Read Article

Featured Products & Services

Easy Lens Centering and Alignment

TRIOPTICS GmbH

OptiCentric® Compact offers quick and simple manual work processes for the centration testing of single lenses as well as their bonding and cementing. The compact system features TRIOPTICS' well-established high measurement precision of 0.1 µm for lens centering.

Visit Website | Request Info

Precision Polished Substrates

Ohara Corporation

Ohara is a leading manufacturer of double-side polished substrates with extremely low surface roughness (RMS ~2 Angstroms) and flatness (~1 µm) values. Sizes 25- to 360-mm diameter, thin (down to 50 µm) and ultra-clean. Fused silica, optical glass, etc.

Visit Website | Request Info

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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High Performance IBS Coatings

Northrop Grumman Synoptics

Quasi-Rugate thin film designs are optimized for high-power laser applications for ultra-fast through CW applications across the wavelength range of 355 nm to 2200 nm. Each design has a unique refractive index profile specifically tuned to give optimal performance for our customer's applications. Quasi-Rugate design structures have the highest demonstrated Laser Damage Thresholds of any Ion Beam Sputtered films.

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Photonics Spectra Reference Chart

Photonics Media

Updated in 2024! This full-color, 29.5 × 20.5-inch poster of the photonics spectrum displays the major commercial laser lines, detectors and optical materials in the ultraviolet to the far-infrared and beyond. The convenient format makes it easy to quickly find the information you need.

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>35km Long Range MWIR Zoom Lenses

Hangzhou Shalom EO

Drawing from a broad range of engineering experiences and utilizing cutting-edge manufacturing techniques, Shalom EO is capable of providing >35km Long Detection Range MWIR Continuous Zoom Lenses for cooled detectors catering to the demands of thermal imaging across remote areas.

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PHOTONICS marketplace®

More News

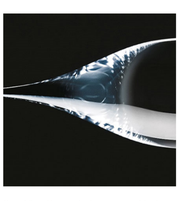
Shape of a Single Photon Revealed with New Theory

Lightsyng Emerges from Stealth with $18M Series A

Quasicrystals Create Light Vortices to Transmit More Data with Fiber Optics

REMBRANDT Project Collaborators to Advance Microwave Photonics

Latest Webinars



Fused Silica Step Index Fibers: Advanced Preform and Fiber Metrology

Tue, Dec 10, 2024 12:30 PM - 1:30 PM 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

Benchmark

Design Considerations for Automated Manufacturing of Optical Assemblies

Wed, Dec 11, 2024 1:00 PM - 2:00 PM EST

As the demand for efficient production of optical systems grows in industries ranging from aerospace and defense to medical imaging, the automation of optical assembly processes becomes increasingly critical. This webinar discusses strategies for optimizing optical assembly designs for automated manufacturing, providing an in-depth exploration of how the latest innovations in optical design, material selection, and component placement are transforming assembly methods. Discover the critical aspects that are essential for achieving precise alignments, minimizing cycle times, and ensuring exceptional performance outcomes in applications such as lidar systems, fiber optics, and advanced medical devices. Implementing these strategies in early-stage design planning lays the groundwork for optimized automated production, enhances alignment accuracy, and boosts final production yields.

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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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