



Weekly News



The EU Creates An Open Access PICs Ecosystem, and Sivers Holds Off on Plans for a Spinout Business

The European Union is working to establish a new pilot line for photonic integrated circuits. Sivers is halting plans for a spinout photonics business. And the Korea University College of Medicine may have found a way to better diagnose and treat depression. These stories and more on *Photonics Spectra* Now. Sponsored by Reynard Corporation and Hamamatsu Corporation.

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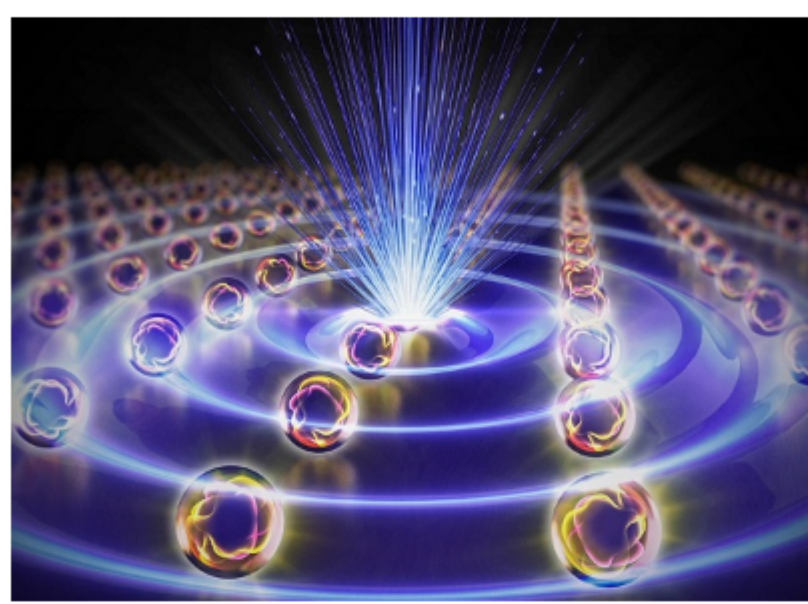
Study Finds Laser Light Can Cast a Shadow

Researchers at the University of Ottawa have demonstrated that under certain conditions, a laser beam can act like an opaque object and cast a visible shadow. The finding challenges the traditional understanding of shadows and opens possibilities for technologies that could use a laser beam to control another laser beam. [Read Article](#)



Beam Shaping Method Optimizes 3D Printing Process

A collaboration between the Fraunhofer Institute for Laser Technology ILT and RWTH Aachen University has developed an approach to beam shaping to individually optimize laser powder bed fusion processes. Customized beam profiles improve component quality, reduce material losses, and enable previously impossible scaling of the build-up rate of the single beam process. [Read Article](#)



Photonic Time Crystals Amplify Light Exponentially for Lasing and Sensing

The first practical approach to creating photonic time crystals at optical frequencies could lay the groundwork for faster optical devices. A team comprising scientists from Aalto University, the University of Eastern Finland, Karlsruhe Institute of Technology, and Harbin Engineering University previously demonstrated photonic time crystals at microwave frequencies. Designing the crystals at optical frequencies has remained a challenge, due to the need for a fast, large-amplitude variation of properties in the material platforms for these crystals. [Read Article](#)

Featured Products & Services

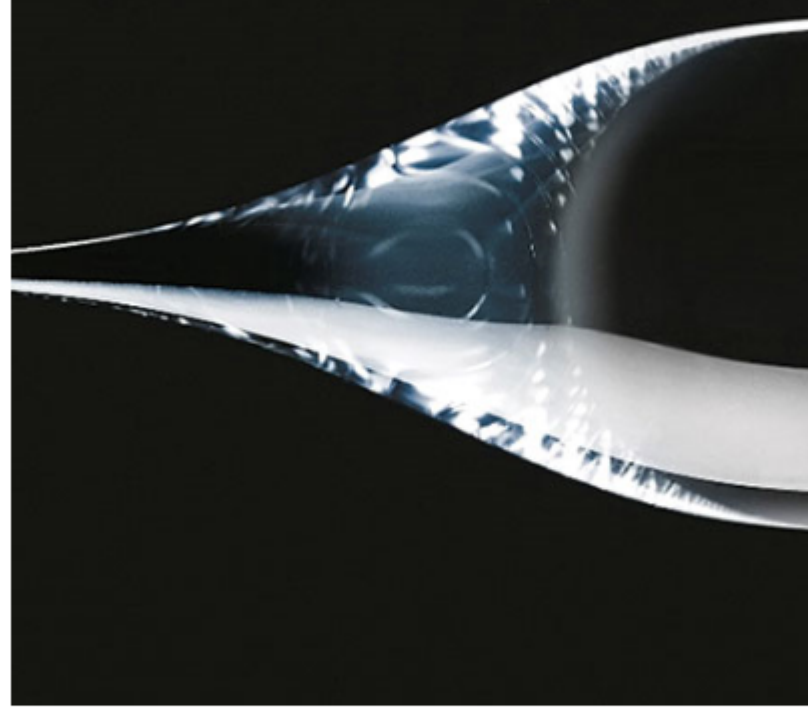
Looking for something else? Check the Photonics Marketplace.



More News

- [AeroVironment to Acquire BlueHalo in \\$4.1B Transaction](#)
- [Lightmatter Follows Up October Funding with Amkor, ASE Collaborations](#)
- [Exosens to Acquire Noxant](#)
- [Deep Learning Enables High-Resolution 3D Images with Low-Speed Cameras](#)

Latest Webinars



Fused Silica Step Index Fibers: Advanced Preform and Fiber Metrology

Tue, Dec 10, 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 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.

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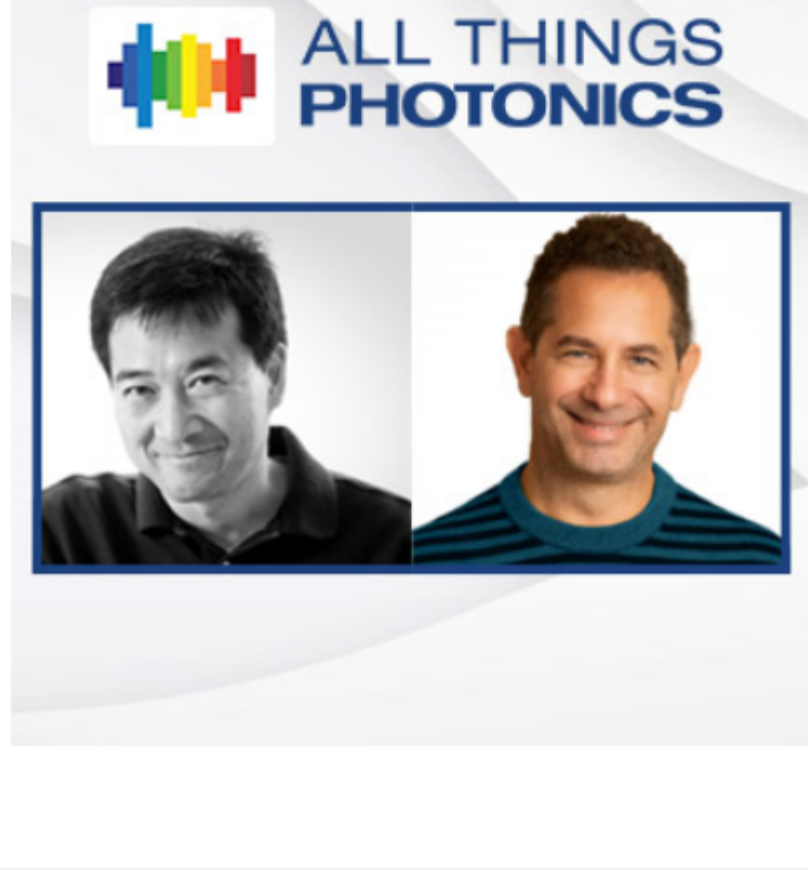
Benchmark

Design Considerations for Automated Manufacturing of Optical Assemblies

Wed, Dec 11, 2024 1:00P 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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All Things Photonics



The Future of Biophotonics and Growth in Technology — With Ji-Xin Cheng and Ronnen Lovinger

Ji-Xin Cheng, professor at Boston University, discusses the future of biophotonics and the challenges it still faces. Cheng shares more on what drives him to continue his research in medical photonics. Ronnen Lovinger, CEO of Silicon Photonics, optical interconnects technology developer Dust Photonics, offers expert insights into the growth of the technology sector, as well as into inflection points at which the technology is arriving.

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