



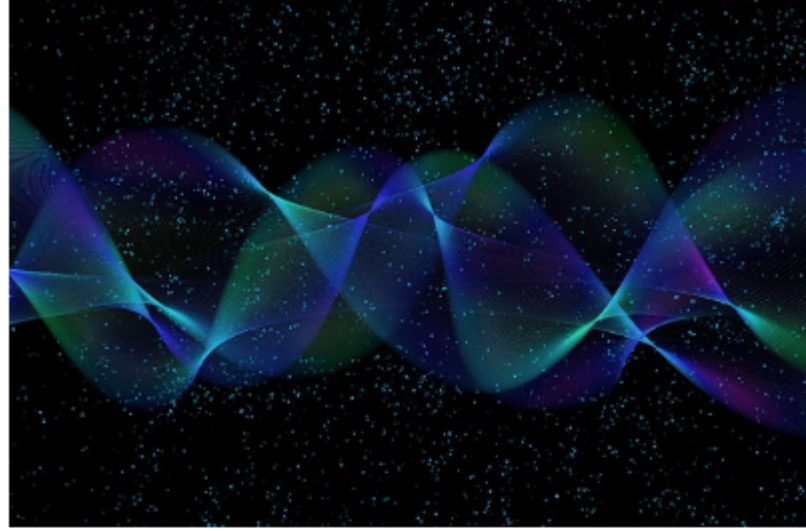
Weekly News



**New Semiconductor Technology Center Comes to Albany and a Flurry of Mergers and Acquisitions**

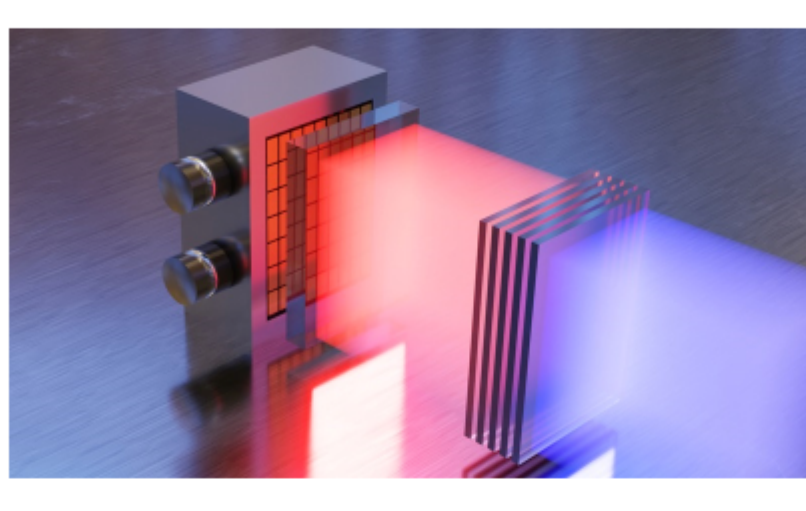
NY CREATES' Albany NanoTech Complex will be the site of a new National Semiconductor Technology Center. The University of Tokyo has found a way to make Raman spectroscopy 100 times faster. The Israeli Defense Ministry is investing big in a laser air-defense system. A list of photonics companies are expanding through new acquisitions. And a new robot-assisted laser procedure from the Fraunhofer Institute for Laser Technology (ILT) is helping surgeons with brain surgery. All this on a new *Photonics Spectra* Now. Sponsored by Reynard Corporation and Hamamatsu Corporation.

[Watch Now](#)



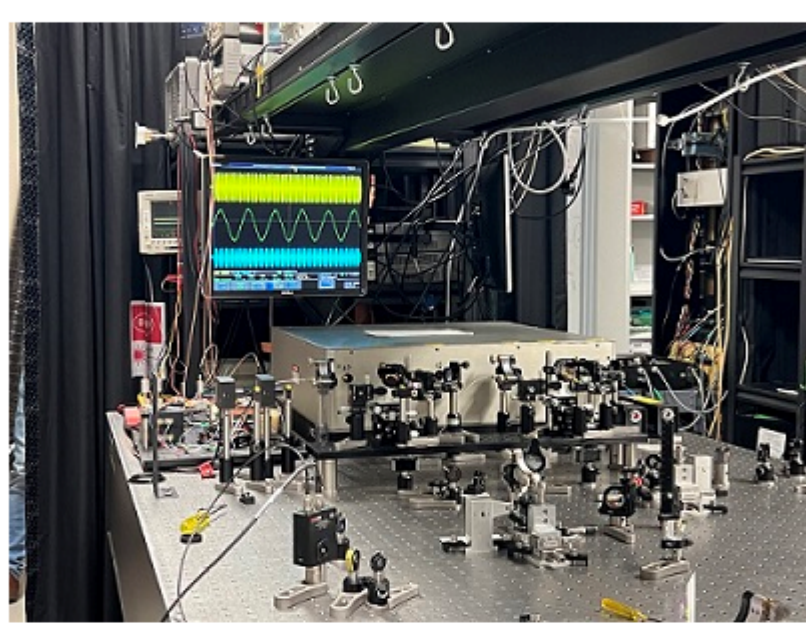
**Photoresist Enables High-Throughput, High-Resolution Nanolithography**

A new cationic-based photoresist can improve the production speed of two-photon lithography without sacrificing resolution. The highly sensitive photoresist, called TP-EO (short for two-photon epoxy oligomer), was developed by a team at Zhejiang University. [Read Article](#)



**Project DioHELIOS Drives High-Power Laser Diode Advancement for Fusion Plants**

The German Federal Ministry of Education and Research has launched Project DioHELIOS, part of its Fusion 2040 – Research on the Way to the Fusion Power Plant funding initiative. The three-year joint project, funded with €17.3 million (~\$19 million), aims to advance high-power laser diodes for fusion power plants, which the German government expects to be built as early as the 2040s. [Read Article](#)

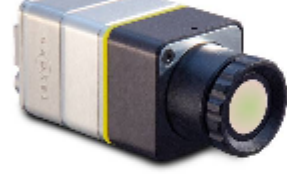


**Researchers Push Broadband High-Resolution Frequency Combs into the UV**

Researchers have developed an ultrafast laser platform that generates ultra-broadband UV frequency combs with an unprecedented one million comb lines, providing exceptional spectral resolution. The approach, which also produces extremely accurate and stable frequencies, could enhance high-resolution atomic and molecular spectroscopy. [Read Article](#)



Featured Products & Services



**Telops Radia Family: Accessible Scientific IR Imaging**

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Telops Radia Family is designed as an accessible entry-point into the world of scientific IR imaging. With cooled and uncooled imaging systems, the Radia Family provides a flexible solution for a wide variety of thermography measurements. Discover the new uncooled V60 & cooled M100 thermal cameras!

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**Precision Fiber Optic Measurement**

**MKS/Newport**  
The FMH-8700 Series Fiber Optic Measurement Head and the FPM-8220 Fiber Optic Power Meter were designed to provide precise fiber optic measurement in demanding test and measurement applications for fiber optic components. The FPM-8220 incorporates a low noise pico-ammeter capable of measuring over a wide dynamic range.

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More News

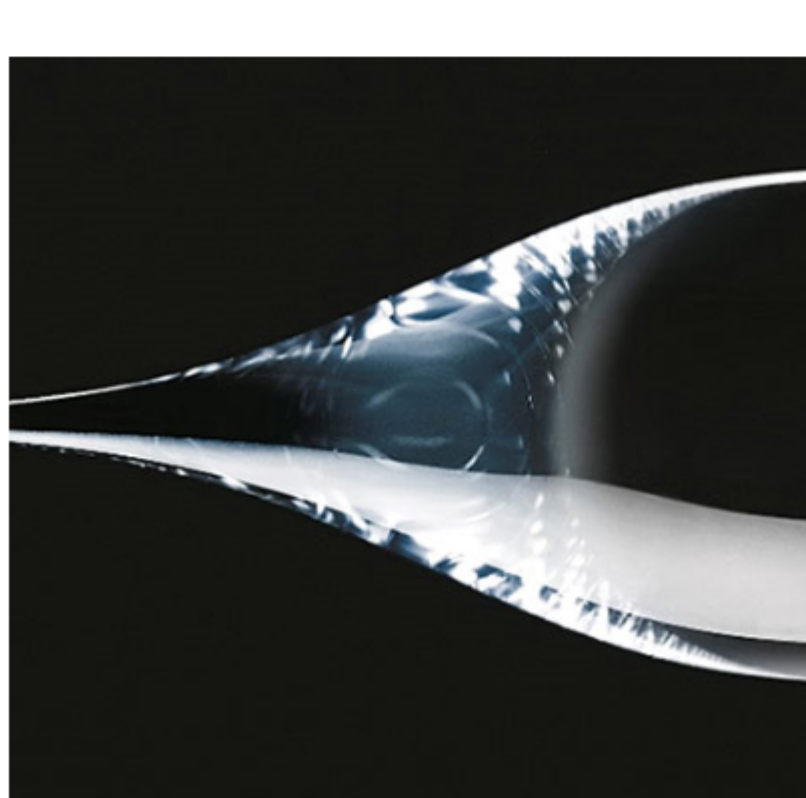
[Upstate New York to House CHIPS for America EUV Accelerator Complex](#)

[Teledyne Acquires Micropac for \\$57M](#)

[Israeli Defense Ministry Awards \\$500M in Iron Beam Contracts](#)

[Raman Spectroscopy Gets Major Speed Upgrade](#)

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 manufacturing 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](#)

**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](mailto:editorial@Photonics.com), or use our [online submission form](#).



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