

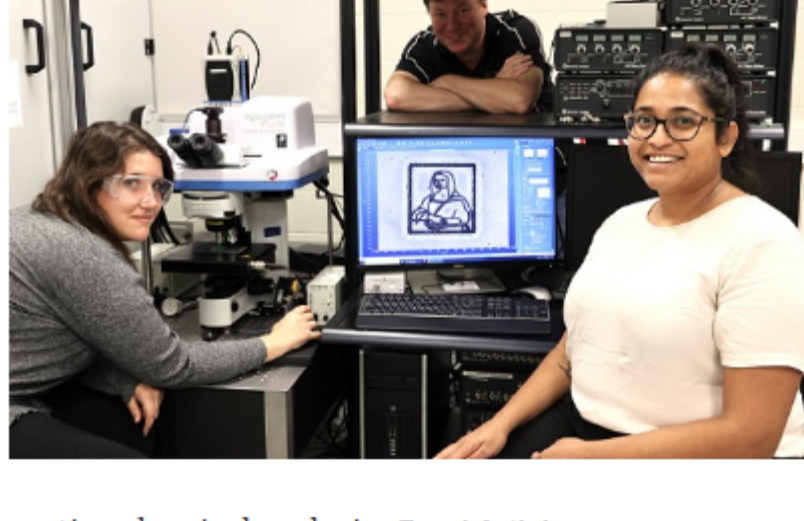


Weekly News



**Researchers Develop Programmable Metafluid**

Researchers from the Harvard John A. Paulson School of Engineering and Applied Sciences have developed a programmable metafluid with tunable springiness, optical properties, viscosity, and the ability to transition between a Newtonian and non-Newtonian fluid. The metafluid could be used in everything from hydraulic actuators to program robots, to intelligent shock absorbers that can dissipate energy depending on the intensity of the impact, to optical devices that can transition from clear to opaque. [Read Article](#)



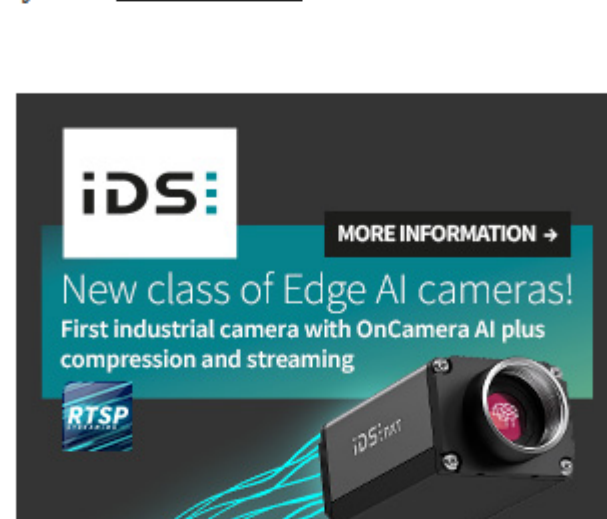
**Low-Power Lasers Prepare Polymers for Electronic, Bio, and Nano Tech**

A polymer that can be modified quickly with low-power lasers emitting infrared and visible light could provide a safe, inexpensive method to produce polymer surfaces for biomedical devices, electronics, information storage, microfluidics, and other applications. The photosensitive polymer, made from elemental sulfur and low-cost dienes, was discovered by researchers at Flinders University during a routine chemical analysis. [Read Article](#)



**SPIE Defense + Commercial Sensing to Bring Security Sensing to DC-Area**

SPIE's annual showcase for mission-critical sensing technology and innovation heads to the DC Metropolitan Area for a five-day run from April 21-25. The Defense + Commercial Sensing (DCS) show will play host to over 250 exhibitors and run more than 1200 presentations located at the Gaylord National Resort & Convention Center in National Harbor, Maryland. [Read Article](#)



Featured Products & Services



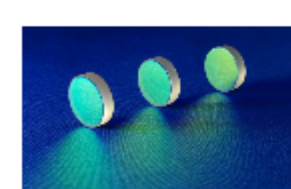
**Duplex Logic To Fiber Optic Converter**

**Highland Technology Inc.**

The Highland K420 is a bi-directional, electrical-optical/optical-electrical data link with differential logic input and output, capable of transporting single or bi-directional digital data at speeds up to 2 GHz. The included Cisco SFP-10G-SR plugin module can operate at distances up to 400 meters with 50-micron OM4 or better fiber.

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**Notch Filters**

**Deposition Sciences Inc. (DSI)**

DSI designs and manufactures notch and bandpass filters, beamsplitters, ARs and absorption coatings for use in the VIS to the MWIR wavelength regions, customized to specific requirements. Using photolithography, we can also pattern these coatings with feature sizes as small as 20 μm to define apertures, segments and/or fiducials.

[Visit Website](#)

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**CO<sub>2</sub> Laser Glass-Processing**

**NYFORS Teknolog AB**

CO<sub>2</sub> 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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**Order Sorting Filters**

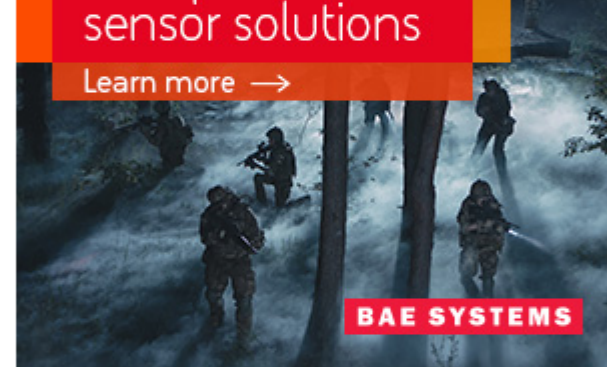
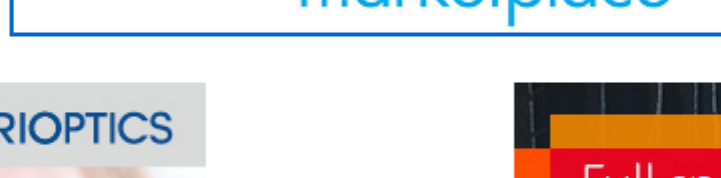
**Delta Optical Thin Film A/S**

Delta Optical Thin Film offers Continuously Variable Order Sorting Filters well suited for diode array spectrometers.

[Visit Website](#)

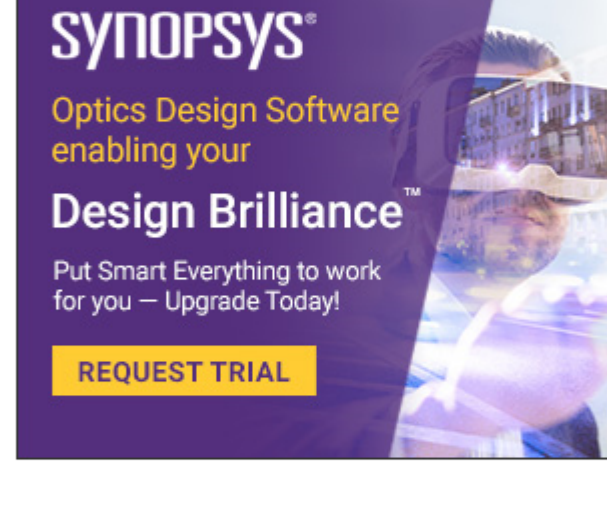
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More News

- [Syntec Optics Shuffles Leadership Team](#)
- [PhotonVentures Reaches \\$79M Funding Target](#)
- [Advantest and Toray Engineering Partner on Display Technologies](#)
- [Coherent Secures \\$15M in CHIPS Funding: Week in Brief: 4/12/24](#)



Latest Webinars



**Optical Filters: Application and Design Considerations**

**Tue, Apr 23, 2024 1:00 PM - 2:00 PM EDT**  
Optical filters can discretely transmit or reject specific wavelengths or ranges of wavelengths of light. Utilizing this capability in photonics-based instruments creates the need for a better understanding of optical filter design considerations and how specifications influence performance and cost. Craig Hanson of MKS/Newport discusses the fundamental principles of optical coatings and filter types and explains the significance of filter parameters and the benefits of design review. He also explores accessory options and subsystem integration. Next Hanson unveils MKS's unique manufacturing processes and capabilities for custom optical filters from prototype to high-volume production. Finally, this presentation concludes with an open Q&A, for which Hanson is joined by Mark Roberts,

principal thin-film engineer at Newport. Presented by MKS Newport.

[Register Now](#)

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

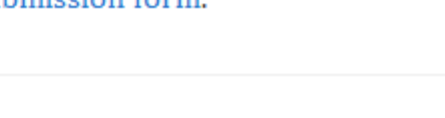
**Thu, May 16, 2024 11:00 AM - 12:00 PM EDT**

In this webinar, Thomas Behnd 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 world 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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