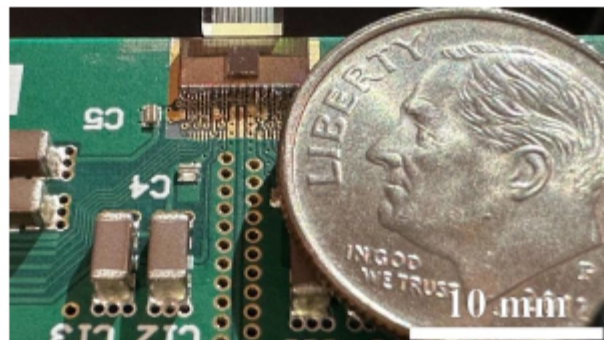


## .: Top Stories

### JUMP 2.0 Consortium Targets Microelectronics Innovation

Semiconductor Research Corp. (SRC), along with the Defense Advanced Research Projects Agency (DARPA) and industry and academic stakeholders, has established the Joint University Microelectronics Program 2.0 (JUMP 2.0). The SRC-led effort expands on the original JUMP collaboration, aimed at accelerating U.S. advancements in information and communications technologies. The consortium created under JUMP 2.0 will pursue high-risk, high-payoff research spanning seven thematically structured centers.

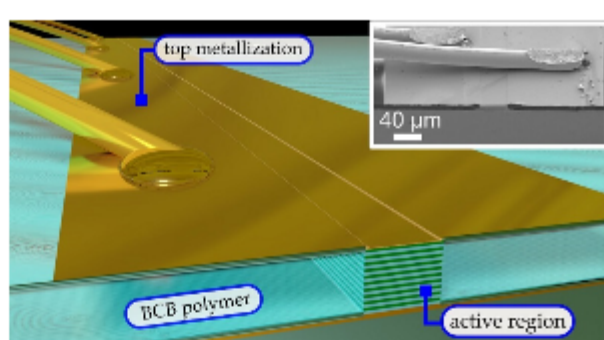
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### Integrated Terahertz Platform Supports Broadband Coherent Photonics

Building on previous approaches to THz integration, including hybrid plasmonic waveguides and devices integrated on silicon, researchers at ETH Zurich presented a novel platform for broadband coherent THz photonics based on high-confinement active and passive planarized double metal waveguides. In the researchers' architecture, the active and passive elements were integrated in a double-metal, high-confinement waveguide layout planarized with a low-loss polymer.

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### SPIE Names 2023 Fellows Class

SPIE, the international society for optics and photonics, has named the 83 fellows that make up the organization's class of 2023. Fellows are members of SPIE who have made significant scientific and technical contributions in the multidisciplinary fields of optics, photonics, and imaging.

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## .: Featured Products & Services



### HyperFine Brillouin Spectrometer

LightMachinery Inc.

The great challenge with Brillouin spectroscopy is that the scattered signal from the un-shifted wavelength of the laser can overwhelm the small Brillouin shifted return signal. LightMachinery has combined its leading-edge HyperFine spectrometer with a very narrow band tunable filter to suppress the bright un-shifted laser frequency.

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### New Filters Enable Compact, Lower Cost Fluorometer

Delta Optical Thin Film

A/S

Delta Optical Thin Film has introduced new advanced excitation and emission bandpass optical filters for fluorescence spectroscopy/microscopy that enable more compact and lower cost fluorometers to be built.

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[Hydrogel Improvements Expand Utility of Expansion Microscopy](#) [Read Article](#)

[Gama Alpha Solar Sail Enters Orbit](#) [Read Article](#)

## .: Upcoming Webinars

**Key Considerations for Part and Sample Holding in Interferometric Characterization**  
Wed, Jan 18, 2023 1:00 PM - 2:00 PM EST  
Interferometry is a powerful tool when used to characterize optical surface form errors, as well as accumulated errors, when measuring transmitted wavefronts. Opticians and engineers have many methods available to facilitate such measurements but can often overlook the effects caused by part holding or fixturing. Frank DeWitt of XONOX Technology Inc. discusses what should be considered when approaching part holding and fixturing for interferometric measurements, the features that are critical to the item being measured, and the required outputs of the measurement.

[Register Now](#)

**3D Optical Metrology: Capabilities for a New Era**  
Thu, Jan 19, 2023 1:00 PM - 2:00 PM EST  
Kevin Harding of Optical Metrology Solutions provides an overview of the many 3D optical metrology tools available today. He discusses applications from general manufacturing of durable parts to precision component measurement. He shares examples, typical performance specifications, and the limitations of the many tools on the market today. Harding then considers each technology for both the type of application it is best suited to address, as well as its speed and resolution. Finally, he shows where each technology fits within the bigger picture of practical applications.

[Register Now](#)

## .: All Things Photonics

In a world characterized by massive quantities of (often unusable) information sources, many facets of society have great need to turn raw data into an actionable tool. **Bruno Sanguinetti**, co-founder of Dotphoton, discusses his company's solution that aims to harness the full potential of image data, taking data in its raw form and transforming it for the benefit of the medical, aerospace and defense, and industrial sectors. Where Dotphoton fits among the confluence of distinct technologies that make up the machine vision ecosystem, as well as the company's trajectory, are focuses of the interview.

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