

# This Week in PHOTONICS



**LightMachinery**  
Excellence in Lasers and Optics



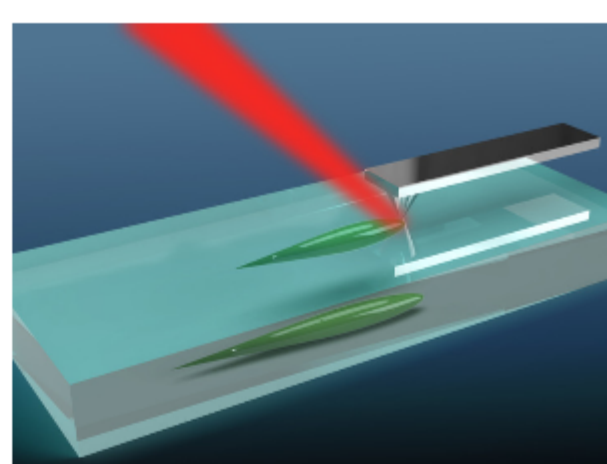
**Hyperfine Spectrometer**  
A sub-picometer resolution spectrometer in a compact package.

## Top Stories

### Spectroscopy Technique Reveals Glass Surface Damage at the Nanolevel

A spectroscopy technique created by collaborators from Penn State, Southwest University of Science and Technology (SWUST), and neaspec GmbH has enabled the study of nanolevel imperfections in the surface of glass.

[Read Article](#)



### 3D-Printed Microlenses Correct Color Distortions in Small-Scale Images

Researchers from the University of Stuttgart used a 3D-printing process called two-photon lithography to make highly precise lenses that are just a few micrometers in size and that reduce chromatic aberrations.

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### Programmable 2D Nanomaterial Captures Artificial Light for Bioimaging

A light-harvesting nanomaterial inspired by hierarchically structured biominerals in nature could be used to build artificial light-harvesting systems. The programmable, hybrid nanomaterial is made from organic and inorganic components and combines the structural and functional complexity of biominerals with the programmability of a protein-like peptoid.

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## Featured Products



### Controlling Machines with Smart Vision Sensors

**IDS Imaging Development Systems**

**GmbH**

Whether in equipment, plant and mechanical engineering, medical technology, agriculture or logistics - image processing solutions are used in a wide variety of industries and scenarios to accelerate, control, and optimise processes. When artificial intelligence comes into play, the range of applications becomes even wider.

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### 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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## More News

[Snap Inc. to Acquire WaveOptics, Announces New Gen of Spectacles Product](#)

[Organic Optogenetics Tool Shines Light on Brain's Communication Pathways](#)

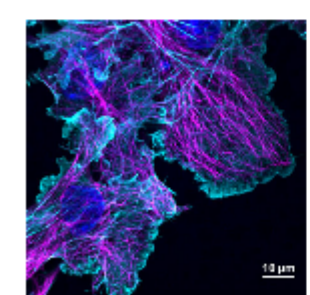
[Lynred NGP Infrared Detector to Join Company's SWIR Linear Array as Part of Copernicus Program](#)

[IIT Delhi to Establish Optics and Photonics Center](#)

[Optical Rectennas Show Aptitude in Waste Heat Capture](#)



## Upcoming Webinars



### Multi-Line Lasers or Laser Combiners: What Solution Is Best for Fluorescence Imaging?

Thu, Jun 17, 2021 10:00 AM - 11:00 AM EDT

Fluorescence based microscopy for high-resolution and high-throughput multi-fluorophore imaging typically relies on the use of several individual laser sources at different wavelengths, within the same instrument. Navigating the field of laser-based multi-color excitation options can be challenging. In this webinar Melissa Haahr and Helge Schmidt, Ph.D., of HÜBNER Photonics discuss the advantages of multi-line lasers and laser combiners with the aim to help identify the suitability of either solution for applications in fluorescence imaging.

Presented by HÜBNER Photonics.

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