

# This Week in PHOTONICS



**LightMachinery**  
Excellence in Lasers and Optics



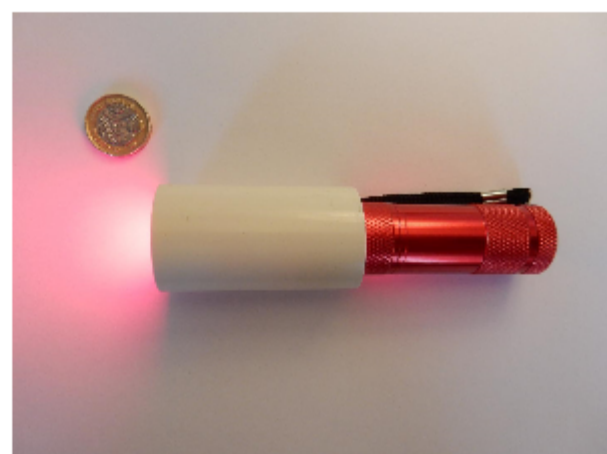
**Hyperfine Spectrometer**  
A sub-picometer resolution spectrometer in a compact package.

## Top Stories

### Red Light Optically Improves Mitochondrial Function in Aging Eyes

Declining eyesight in humans was shown to improve when subjects looked at a deep red 670-nm light beam for three minutes a day for two weeks, according to a study led by researchers at University College London.

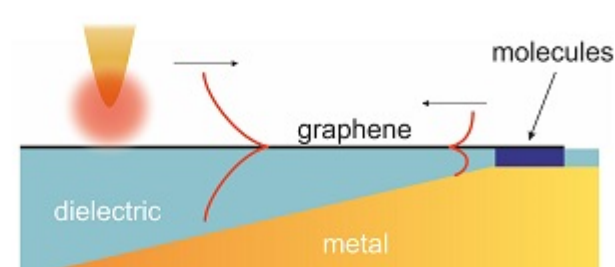
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### Molecular Qualities Captured with Plasmons

Specific properties of small amounts of molecules can now be isolated with the use of graphene-metal film structures, thanks to the work of scientists in Russia and Spain. Their work focuses on a plasmon, which is an electron oscillation that is coupled with an electromagnetic wave.

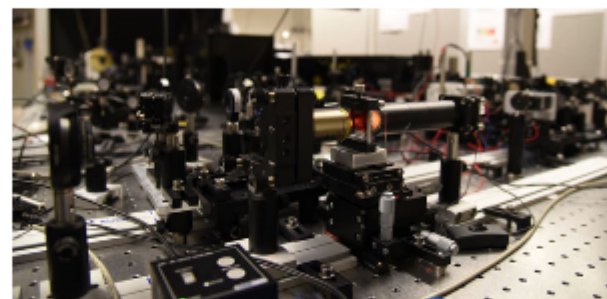
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### Bose-Einstein Condensate Formed in Record-Breaking Time

Researchers at Aalto University and the University of Eastern Finland have created a Bose-Einstein condensate in femtoseconds (fs) — a record-breaking time for producing this state of matter.

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## Featured Products



### [Industrial Laser Safety at a Glance](#)

**Photonics Media**

A straightforward guide, offering clear, real world explanations of laser safety elements and the necessary background materials for the industrial laser environment. It raises awareness of the

dangers of laser exposure, the proper tools needed to protect oneself from the potential hazards...

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### [Tetra CMOS Line Scan Image Sensors](#)

**Teledyne e2v (UK) Ltd.**

Tetra is a low-cost, high-volume CMOS sensor family of 2k, 4k, 8k and 16k resolution for multispectral, color, and monochrome imaging. These sensors are ideal for food sorting, recycling, logistics, pick-and-place, and other machine vision applications that require cost-effective imaging.

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[NIH Researchers Speed Image Processing for Fluorescence Microscopy](#) [Read Article](#)

[Spectral Mapping of Heart Tissue Could Help Improve Ablation Therapy](#) [Read Article](#)

## Upcoming Webinars



### **Embedded Vision: An Overview**

Thu, Jul 23, 2020 1:00 PM - 2:00 PM EDT

Embedded vision is an emerging and growing technology with use cases developing across many fields, from medical imaging to autonomous vehicles. In this webinar, industry expert David Dechow will define embedded vision and the technologies involved, the basic implementation challenges and techniques, and the impact that embedded vision will have on familiar markets, including, in particular, machine vision in automation applications. The webinar will feature examples and case studies and include a question-and-answer session.

[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*, *Vision Spectra*, and *EuroPhotonics*). 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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