

# This Week in PHOTONICS



**LightMachinery**  
Excellence in Lasers and Optics



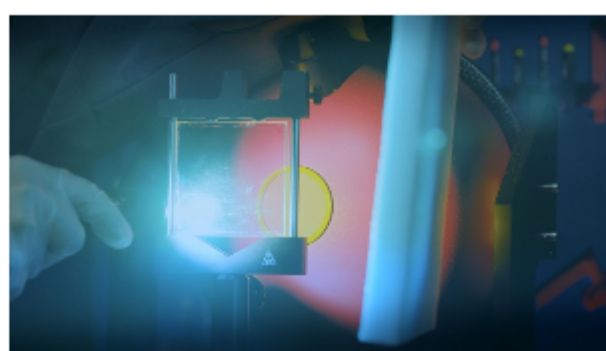
**Hyperfine Spectrometer**  
A sub-picometer resolution spectrometer in a compact package.

## Top Stories

### SunDensity's Photonic Smart Coating Technology Takes Top Prize at Luminate NY's Finals Competition

SunDensity, a developer of photonic smart coatings (PSC) technology, has earned \$1 million in funding as the competition winner of the third cohort of the Luminate NY Program's Innovation Finals Competition. Luminate third-cohort winners, highlighted by SunDensity, were announced at The Optical Society's (OSA) Frontiers in Optics + Laser Science Conference (FIO + LS).

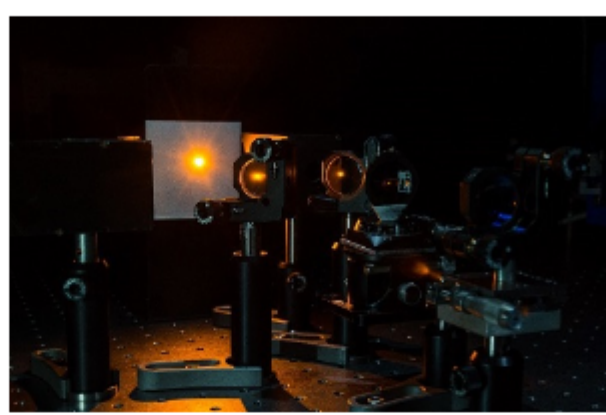
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### Ultrafast Yellow Laser Poised for Biomedical Applications

Researchers at the Physical Research Laboratory at Gujarat University have developed a compact and ultrafast high-power yellow laser. The tunable laser shows excellent beam quality, helping fill a need for a practical yellow light source emitting ultrafast light pulses.

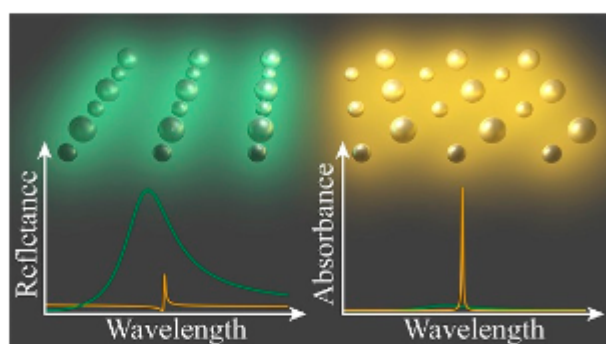
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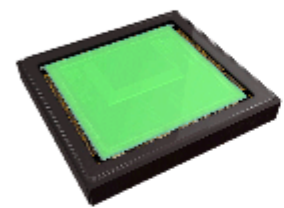
### Periodic Array System Potential Supports Nanophotonic Applications

A research team from the University of New Mexico and the Autonomous University of Madrid has applied periodic arrays containing nanoparticles of different sizes — as opposed to more conventional arrays that contain nanoparticles of a singular, uniform size — to generate coherent light of desired colors.

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## Featured Products



### ToF Sensor for 3D Vision Systems

**Teledyne e2v - UK**  
Hydra3D™ is a new high resolution Time-of-Flight

(ToF) CMOS image sensor, tailored for 3D detection and distance measurement. It features a 10 μm three-tap cutting-edge pixel and supports the latest industrial applications, including vision guided robotics, logistics, and automated guided vehicles.

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### 222 nm UV-C Radiometer for Excimer Lamps

**Gigahertz-Optik Inc.**

ar-UVC light, for example 222 nm produced by Kr-Cl excimer lamps, has been shown to effectively inactivate bacteria but with less photobiological hazard for humans. This is because far-UVC light cannot penetrate human skin or eyes as deeply as longer wavelength UV radiation.

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now available in the versatile **uEye SE!**

**iDS**  
+ **IMX541**  
20.35 MP

## More News

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[PhotoniCare Announces More than \\$7M in Funding, Appoints Chief Commercial Officer](#)

[Imec and CMST Develop Artificial Iris](#)

[Continuous, Stable Lasing Achieved with Perovskite Laser](#)

[All-Glass Fiber Optic Sensor Performs Sensitive Force Measurements on Miniature Objects](#)

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## Upcoming Webinars



### LED Lighting for Fluorescence Microscopy: A Sustainable Illumination Option

Tue, Sep 22, 2020 10:00 AM - 11:00 AM EDT

This webinar, presented by Excelitas, will discuss the recent advancements in LED technology that have created an opportunity for LEDs to replace arc lamps for a variety of fluorescence imaging applications. Presenter Kavita Aswani, Ph.D., will address the development of high-power LEDs for the green excitation range, a wavelength that has traditionally been challenging for LEDs. She will also discuss the many advantages of using LEDs for microscopy systems in life sciences, including sustainability.

[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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