

# This Week in PHOTONICS



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## Top Stories

### LASER World of PHOTONICS Will Showcase Quantum Innovation in Return to Munich

Photonics industry market leaders, research institutes, and, thanks to a dedicated trade fair platform in the quantum space, drivers in the quantum industry will return to Munich April 26-29 for LASER World of PHOTONICS. The event is taking place for the 25th time in 2022, after last year's trade fair was postponed.

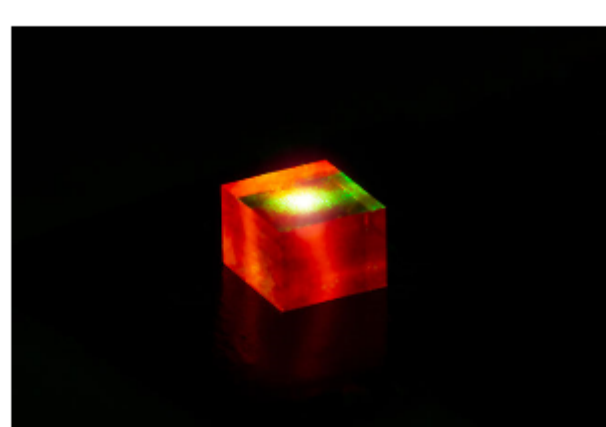
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### II-VI Advances Its Diamond Platform, Electronics Sector Presence

II-VI will collaborate with Element Six, a provider of synthetic diamonds and superhard materials, to expand the Pittsburgh-based engineered materials and optoelectronic components company's diamond platform. Through the collaboration, II-VI is licensing from Element Six its intellectual property and equipment necessary to produce high-quality, single-crystal diamond.

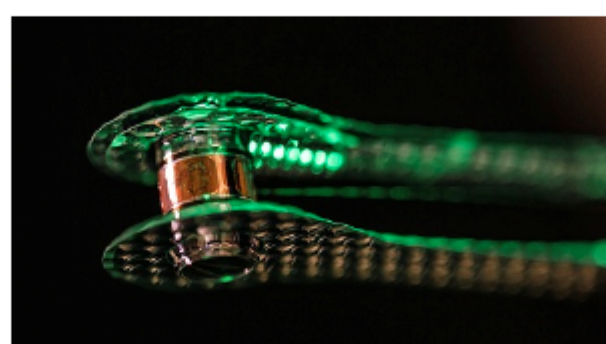
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### Laser System Enables Milestone Step Toward Self-Sustaining Fusion Energy

Scientists at Lawrence Livermore National Laboratory's National Ignition Facility say that, for the first time, physicists have engineered and tested a laser system in which fusion itself provided most of the heat needed for a fusion reaction. The accomplishment will enable higher levels of fusion performance, on the road to attaining energy from nuclear fusion and self-sustaining fusion energy.

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## Featured Products

### Red Helium-Neon (HeNe) Lasers



#### MKS/Newport

Our red Helium Neon laser product family offers TEM<sub>00</sub> mode structures at 633 nm. All are available in either linear or random polarization. With an emphasis on satisfying a variety of applications and budgetary needs, we offer a variety of 633 nm wavelength He Ne laser power levels ranging from 0.5 mW to 35 mW.

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### pco.edge 10 bi CLHS - The Next Level sCMOS



#### PCO-TECH Inc.

The pco.edge 10 bi CLHS is PCO's next level sCMOS camera with unprecedented imaging performance. Thanks to its back illuminated image sensor it comes with a quantum efficiency of up to 85% with broad spectrum out to NIR. The sensor incorporates microlenses and a full pixel height deep trench isolation for crosstalk suppression resulting in an excellent MTF.

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## Upcoming Webinars



### Single-Photon Detectors and Detection: SiPM, SPAD, SNSPD, PMT, TES, and Photon-Resolving Camera Technologies

Wed, Feb 16, 2022 1:00 PM - 2:00 PM EST

Slawomir Piatek, Ph.D., of NJIT and Hamamatsu overviews six types of single-photon photodetectors for low-light conditions: photomultiplier tubes (PMTs), single-photon avalanche photodiodes (SPADs), silicon photomultipliers (SiPMs), superconducting nanowire single-photon detectors (SNSPDs), superconducting transition edge sensor (TES), and photon-resolving cameras. All of these detector technologies are becoming more popular as developers and suppliers aim toward satisfying the increasing demand for 'modern' photonic applications, including quantum computing, lidar, dark matter detection, and more. Presented by Hamamatsu Corporation.

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