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Tailored Photons Generated from Solid-state Chips

Researchers at the Cavendish Laboratory at Cambridge University have implemented a novel technique to generate single photons with tailored properties from solid-state devices that are identical in quality to lasers. A semiconductor Schottky diode containing individually addressable quantum dots was built as their photon source. The transitions of quantum dots were used to generate single photons via resonance fluorescence - a technique previously demonstrated by the same team.

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QDs Boost Protein Pinpointing in Cancer Cells

The development of a quantum dot color-coding method that illuminates 100 biomarkers in a single cell could boost the pinpointing of proteins in cancer cells, say researchers at the University of Washington.

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Ultrahigh-Speed Communications Sets Efficiency Record

An IBM team working on a DARPA-funded program transmitted massive amounts of data with unprecedented low power consumption, increasing the speed by 66 percent and shattering the previous power efficiency record by one-half.

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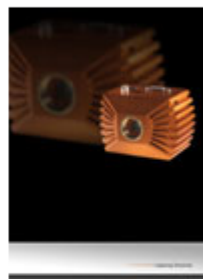
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P&P Optica Joins Technology Accelerator Program

The optical spectrometer manufacturer was selected as one of eight Canadian companies to participate in the Canadian Technology Accelerator program in Boston.

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Plugging Polymer Holes Boost Laser Potential

Plugging the holes of an inexpensive polymer prevents light leakage, enhancing the material's use in photonic devices, say a team at North Carolina State University.

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Endoscope Prototype Is Thin as a Human Hair

The micro-endoscope, developed under Stanford University's Joseph Kahn, can resolve objects about 2.5 μm in size (beating today's high-resolution endoscopes by about 8 μm), with a resolution of 0.3 μm within reach.

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In this edition of the industry's premier weekly newscast: Evidence grows for the Higgs boson discovery, an endoscope prototype is as thin as a human hair, electronic chips self-heal after laser blasts, AFM goes IR to ID nanoscale chemicals, and IPG acquires Mobius Photonics. Hosted by Photonics Media's Melinda Rose and Laura Marshall.

Evidence Grows for Higgs Boson Discovery

The particle discovered last summer during experiments at the Large Hadron Collider in Geneva is looking more than ever like a Higgs boson, according to preliminary results released at a conference this week in Italy.

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IPG Photonics Acquires Mobius Photonics

The company acquired privately held Mobius to accelerate entry of IPG's fiber into the ultraviolet laser market and broaden its opportunities in fine processing.

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UK Invests in Photonics for Health Care

The UK's Technology Strategy Board will invest up to £3.7m (about \$5.5 million) in projects that use innovative photonics technologies in business-led partnerships between academia, industry and health care providers to solve health challenges.

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