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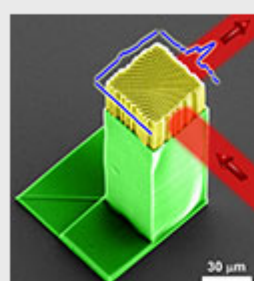
Thursday, March 26, 2015



This week on *Light Matters*:

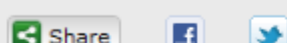
A "Nano Piano," Microparticle Propulsion and a Solar Super Hero...

Honeycomb Steers Light around Sharp Curves



Microscale plastic honeycomb structures can make light beams turn on a dime, a development that could allow more optical relays to be packed onto photonic integrated chips.

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Marines Award Elbit \$73.4M Contract for Laser Rangefinders

The Common Laser Range Finder-Integrated Capability (CLRF-IC) replaces the Marines' current equipment with a system that allows accurate target location in a variety of conditions, including magnetically disturbed environments, areas with overhead clutter and in GPS-denied situations.

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Quantum Materials Breaks 'Stokes Shift Barrier' for QD Clarity

Minimizing overlap between total excitation and emission bands enhances the clarity and brightness of fluorescing QDs by avoiding reabsorption of emitted light into other nearby QDs.

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Featured Products



Extreme Imaging Products

Stanford Photonics, Inc. designs and manufactures digital ICCD/ICMOS/CCD cameras for advanced imaging applications in the life sciences, commercial and military surveillance markets.

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Laser Safety Portable Barriers

Kentek Corp. Kentek's portable barriers are an alternative to laser safety curtain systems and are available in Flex-Guard™, Ever-Guard® and laser-safe acrylic materials. Use our Light Blockers hinges to connect together an unlimited number of partitions.

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Wide Range of sCMOS Cameras

PCO-TECH Inc. With the addition of two new models, PCO now provides eight sCMOS-cameras, one for almost every application. The new pco.edge 3.1 and pco.edge 4.2LT have become our new entry-level cameras.

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Graded Reflectivity Mirrors

BMV Optical Graded Reflectivity Mirrors (GRM) are used as cavity optics within unstable laser resonators. These mirrors are often used with Nd:YAG (1064nm) lasers, but can also be designed for use in other laser systems.

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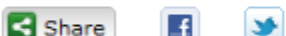
More Articles on Photonics.com

Squid Skin Inspires IR Camouflage Tape (with video)



Researchers from the University of California, Irvine, have developed an adhesive film that, when stretched, reflects near-infrared light. Future versions of the technology that reflect a broader part of the IR spectrum could be worn by soldiers hoping to avoid detection by enemy thermal cameras.

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Natcore, Eurotron Partner on HIT Solar Cells

Natcore recently announced that it had produced an all-back-contact silicon heterojunction with intrinsic thin layer (HIT) solar cell using proprietary laser technology. The company said the technique increases cell efficiency and could allow low-cost, environmentally friendlier production.

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OFS Joint Venture Opens Fiber Optic Cable Factory in Russia

The two companies started a joint venture in 1999, and expanded in 2007 to meet market demands. They began work on the new factory in 2012 in the Maslovski Industrial Zone of Voronezh, which is about 320 miles south of Moscow.

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DEADLINE FOR ABSTRACTS APPROACHING!

Call for Presentations Biophotonic Imaging for Medicine: A Digital Conference



Photonics Media is seeking presenters for "Biophotonic Imaging for Medicine," a free digital conference to be held June 11. We invite presentations from researchers, clinicians and engineers working at the graduate, doctoral and professional levels. Topics of interest include light-sheet microscopy, optical coherence tomography, photoacoustics, computational imaging and more. Visit www.photonics.com/bioconference to find out more and submit an abstract.

Pairing of Silicon, Perovskite Promising for Solar Efficiency

The prototype's a 13.7 percent power-conversion efficiency still leaves much to be desired. But in this first step the researchers overcame problems around pairing silicon with perovskite that could enable efficiencies greater than the peak 25.6 percent of standard silicon cells.

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Optogenetics Could Counteract Erectile Dysfunction



A gene construct that reacts to blue light could offer a drug-free remedy for men with erectile dysfunction.

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Teledyne Judson Expands Lead Salt IR Detector Fabrication Facility

Detector applications include nondispersive IR spectroscopy, optical pyrometry, flame spectroscopy, moisture analysis, environmental gas analysis, medical gas analysis and inspection of grain and feed.

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Industry Events

SPIE Optics & Optoelectronics - April 13-16, 2015 · Clarion Congress Hotel, Prague

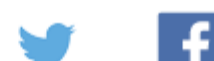


SPIE Optics & Optoelectronics is a meeting that highlights the technologies that drive Europe's largest optoelectronic infrastructure projects, such as HiPER, HiLASE, ELI Beamlines, plus conferences and workshops on laser acceleration, free-electron lasers, x-ray and extreme UV optics, nonlinear optics and more.

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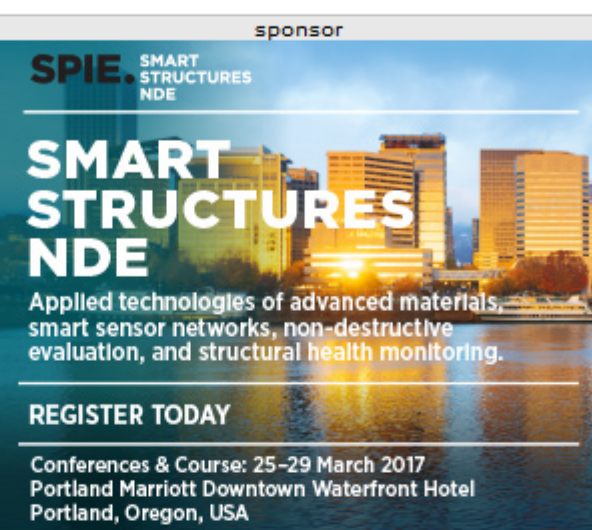
FEATURED VIDEO



Renishaw – Innovative Encoder Systems

Renishaw's Corrie Fearon and Sandeep Raja discuss the innovative encoder systems: RESOLUTE™ - absolute optical linear and absolute optical rotary (angle) encoder system (www.renishaw.com/resolute) and ATOM™ - optical incremental miniature encoder system (www.renishaw.com/atom). Learn more about unrivalled metrology performance from Renishaw at www.renishaw.com.

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