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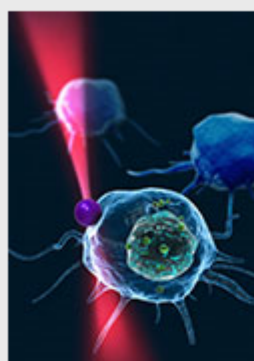
Thursday, May 7, 2015



This week on **Light Matters**:

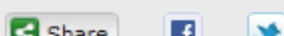
We challenge you to a game of chess where the pieces are burning candles!

ODT Enhances Optical Tweezer Capabilities, Holographic Bioimaging



A new optical diffraction tomography (ODT) technique can measure the positions of optically trapped particles in three dimensions at high speed.

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SPIE Calls for Community Input on Proposed ITAR Changes

The Commerce Department has opened a 60-day comment period on revisions to Category XII of the U.S. Munitions List, which governs commodities covered by International Traffic in Arms Regulations (ITAR). The proposal has broad implications for the U.S. optics and photonics industry, SPIE said.

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Chinese Consortium to Acquire OmniVision for \$1.9B

Yue Liu, a managing director at Hua Capital Management, said the deal will expand OmniVision's share of the mobile phone image sensor market in China and globally. He added that the company "is well positioned to capitalize on fast growing market opportunities in automotive, security, entertainment and the Internet of Things."

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Featured Products



LDC-3706 Series Laser Diode Controller

Newport Corporation/ILX
The LDC-3706 series of Laser Controllers consists of industry-leading combination laser current source and temperature controller specifically designed to control quantum cascade lasers and high-power single emitter laser diodes.

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Tamarisk Precision Radiometry

DRS Technologies
DRS Technologies evolves its popular Tamarisk®320 line of micro thermal imagers with the introduction of its Tamarisk® Precision Series for general purpose radiometric detection and imaging.

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Optical Digital Laser Rotary Encoder

Canon U.S.A.
Canon R-1 series Laser Rotary Encoders offer high performance (high resolution, accuracy, and precision) in a very compact 36mm diameter body.

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Spatial Light Modulators

Meadowlark Optics
Meadowlark Optics, Inc. manufactures and sells both transmissive and reflective liquid crystal on silicon (LCoS) Spatial Light Modulators (SLMs).

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More Articles on Photonics.com

DNA, Silver Used to Create Fluorescent Arrays



"Not only can the breadboard keep its shape when silver clusters are present, it can also position arrays of many hundreds of clusters containing identical numbers of silver atoms — a remarkable degree of control that is promising for realizing new types of nanoscale photonics," said Beth Gwinn, a professor at the University of California, Santa Barbara.

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Collaboration to Develop QCL Threat-Detection Systems with €3.35M EC Grant

A group of European companies and researchers will collaborate on a €3.35 million European Commission-funded project to develop quantum cascade laser systems to detect explosives and hazardous materials.

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Expanding into Australian Market, AFL Acquires AFC Group

With the addition of AFC, AFL's product offerings in the region now include fiber optic cable, fiber management systems, fiber assemblies and fiber enclosures, as well as splicers, test equipment and communication network products.

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WHITE PAPER



DRS Technologies' Patented Sensor Technology Revealed

DRS Technologies, Inc., Commercial Infrared Systems

Learn the truth about what's behind DRS Technologies' competitive advantage over thermal sensor manufacturers — the patented Advanced-Absorber Microbolometer Superstructure, providing better performance through superior image quality and enhanced sensitivity. Designed by DRS' Principal Staff Scientist, Dr. George Skidmore, PhD, the patented structure started with a simple question, "How could the common bolometer be redesigned to provide enhanced absorptivity and resistance for heightened performance?"

[DOWNLOAD WHITE PAPER >>](#)

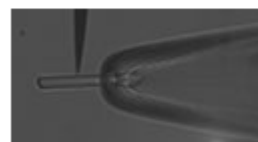
Meprolight, Rolta to Develop Imaging Optronics for Indian Defense Forces

Meprolight Ltd. of Israel is seeking to establish a joint venture with defense contractor Rolta India Ltd. of Mumbai to develop optronic devices based on image intensifier and thermal imaging technologies for India's defense and security forces.

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Fiber Tests Show Rods' Uneven Response to Light



To study the response of retinal cells to light, an team of researchers has developed a new technique involving tapered optical fibers that could also have applications in optogenetics.

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Lidar Firm Rechristened Teledyne Optech after Acquisition

Teledyne Technologies Inc. has taken full ownership of Optech Inc., a Canadian manufacturer of laser-based survey and digital imaging instrumentation.

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WEBINAR



Biophotonic Imaging for Medicine: A Digital Conference

Thursday, June 11, from 1 to 5 p.m. EDT

FREE WEBINAR

Researchers from around the world will present their latest work at "Biophotonic Imaging for Medicine: A Digital Conference." The online event will feature a series of 15- and 30-minute talks, each followed by a brief question-and-answer period. Presentations will focus on a range of light-based imaging and microscopy techniques for diagnosing and assessing illness, and for studying other attributes and functions of biological tissue in a medical context. Topics include wavefront engineering for in vivo deep tissue engineering, deep UV excitation microscopy for slide-free pathology, quantitative phase digital holographic microscopy, photoacoustic analysis, multimode fiber endoscopy, surface-enhanced Raman scattering (SERS), microscopy and lens-free microscopy.

Industry Events

CLEO Laser Science to Photonic Applications 2015 - May 10-15, 2015 · San Jose Convention Center - San Jose, Calif.



CLEO 2015 features breakthrough research and applied innovations. The event has been redesigned to include the same content under five core elements: QELS: Fundamental Science, Science & Innovation, Applications & Technology, Market Focus and Expo.

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