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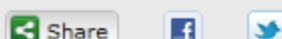
Thursday, January 29, 2015

Fluorometer Measures Glucose Levels Noninvasively



The Glucolight system is intended to help prevent hypoglycemia in babies born prematurely.

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FEATURED VIDEO



Jim Johnston
Automation Systems Group Manager

Aerotech – Q-Series Piezo Nanopositioners
Jim Johnston, Automation Systems Group Manager presents Aerotech's new QNP Piezo Nanopositioners and QLAB Piezo Controller. QNP stages offer sub-nanometer resolution and best-in-class stiffness and resonant frequency in a compact package, making them the ideal solution for high-performance, space-constrained applications such as interferometry, microscopy and precision alignment.

Corning Expands Hyperspectral Imaging Portfolio with NovaSol Acquisition

The combined expertise of the two companies will enable development of advanced spectral systems that address the needs of emerging industrial markets, Corning said.

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Shanghai Investors Increase Stake in LightPath Technologies

LightPath Technologies Inc. plans to use a \$1.3 million investment to support new product development, sales and marketing of its IR products and the acquisition of new equipment.

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Non-Contact Laser Beam Monitoring

Ophir Photonics Group Lasers are reaching incredible power levels...up to 100kW and higher. But high powers are difficult to profile by conventional techniques.


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Diamond-Turned IR Aspheres

Rainbow Research Optics Rainbow Research Optics, Inc. has added Infrared Diamond-Turned Aspheres to our product line. We are excited to offer this new capability to our customers.

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APDs for Rangefinders and LIDAR

First Sensor For high-performance laser rangefinders and LIDAR systems, First Sensor offers the Series 9 avalanche photodiodes (APDs) with fast rise times and excellent responsivity in the 900 nm range.

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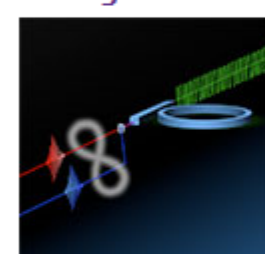
Short Coherence Laser Interferometer

4D Technology Corp. The new AccuFiz short coherence laser interferometer includes a second, external, short coherence laser source that lets you isolate and measure plane parallel optical surfaces.

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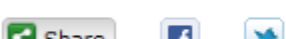
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Entangled Photons Emitted from Silicon Microring



"The rate at which the entangled photons are generated is unprecedented for a silicon integrated source, and comparable with that available from bulk crystals that must be pumped by very strong lasers," said professor Dr. Daniele Bajoni of the University of Pavia in Italy.

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EOS, MTU Partner on Laser Additive Manufacturing Quality Control

Quality assurance is especially important in the field of serial production, the companies said, because it is vital for ensuring repeatable component quality and for continually reducing quality control costs.

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MEMS-Based QCL Spectrometer Aims at Hazardous Materials Detection

"Electrostatically driven MEMS grating mirrors are much more compact than galvanometer scanners, make almost no sound and allow for very high scanning frequencies due to their low weight," said Fraunhofer IPMS project manager Dr. Jan Grahmann.

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In this edition of the industry's **premier weekly newscast**: We learn about a new approach for creating arbitrary laser pulses, and a new type of nanoparticle that enhances six different kinds of bioimaging. Plus a look at the opening ceremonies for the International Year of Light and the finalists for the Prism Award for metrology instruments.

DOE Announces Solid-State Lighting Development Grants

Four companies have received U.S. Department of Energy grants for development of solid-state lighting technology.

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Fiber Sensors Go Inside Hot Machining Processes



Fiber optic pyrometers that can get into places that other heat sensors cannot could help metal parts manufacturers cut down defects and breakdowns.

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Laser Components Expands Arizona Facilities for Production of Lead Salt IR Detectors

The PbS and PbSe detectors are sensitive in the 3- to 5- μ m range and may be used in gas measurement and other applications.

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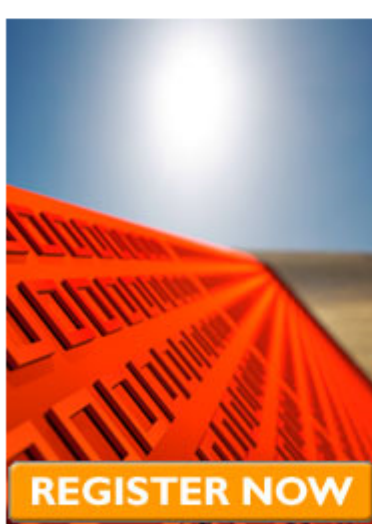


WEBINAR

Enabling Nanophotonics, Data Storage and Energy Conversion with New Plasmonic Materials

Wednesday, February 4, 2015 1:00 PM - 2:00 PM EST

FREE WEBINAR



Vlad Shalaev

Designing plasmonic metamaterials with versatile properties that can be tailored to fit almost any practical need promises a range of potential breakthroughs. However, to enable these new technologies based on plasmonics, grand limitations associated with the use of metals as constituent materials must be overcome. In the structures demonstrated so far, too much light is absorbed in the metals (such as silver and gold) commonly used in plasmonic metamaterials. The fabrication and integration of metal nanostructures with existing semiconductor technology is challenging, and the materials need to be more precisely tuned so that they possess the proper optical properties to enable the required functionality.

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The latest work on biomedical optics, diagnostics and therapeutics, biophotonics, new imaging modalities, optical coherence tomography, neurophotonics, optogenetics, tissue optics. Hosted by SPIE, the event precedes Photonics West.

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