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PHOTONICS.com

PHOTONICS MEDIA
THE PULSE OF THE INDUSTRY

Thursday, November 5, 2015

As a number of startups introduce unique bioimaging technologies, several research groups are doing exciting work to make microscopy more useful and life-saving.

Lasercom System Also Measures Distance, Speed

The Space Optical Communication and Navigation System recently demonstrated in laboratory testing that it could provide micron-level distance and speed measurements over a 622-Mb/s laser communications link.

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KMLabs Secures $5.5M Investment from Intel, Equity Fund

The company plans to accelerate product development efforts for ultrashort-pulse and extreme-ultraviolet (EUV) laser sources. The funding will go toward strengthening engineering capabilities to enhance the core business, while simultaneously building a more commercially focused portfolio and manufacturing infrastructure.

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Resonetics Expands Materials Processing Capabilities with Acquisition of Mound Laser

"The team at Mound Laser has made impressive strides in recent years, taking on very difficult-to-manufacture components in the neurovascular, structural heart and peripheral vascular markets in particular," said Resonetics CEO Tom Burns.

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Featured Products

Quantum Efficiency Measurement Solution

Newport Corporation

Oriel Instruments, a Newport Corporation brand, introduces the next generation of photovoltaic measurement instruments in the IQE 200B Quantum Efficiency Measurement Solution.

More info >>

Custom Polymer Optics

Diverse Optics

Looking for consistently repeatable precision polymer optics to reduce cost, trim weight, simplify design, and improve performance?

More info >>

ITS/Starlight Lenses

FOCtek Photonics

FOCtek Photonics has developed a series of new products -- ITS/Starlight Lenses which are used for matching 2/3", 1", 4/3"CCD and CMOS in intelligent transportation systems.

More info >>

PhaserCam Laser Interferometers

4D Technology Corp.

PhaseCam® laser interferometers are compact and lightweight for highly accurate measurement of precision optics and optical systems.

More info >>

More Articles on Photonics.com

German Partnership to Modify Laser Welding for Shipbuilding

Weld-seam characteristics and weld-penetration depth can be optimized based on the mix ratio of the metals. Project partners plan to control weld-penetration depth by analyzing the spectral process emissions using short-coherence interferometry.

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OLEDWorks Acquires Assets, German Factory from Philips

Manufacturing will continue in Philips' existing facility in Aachen, Germany, with the establishment of OLEDWorks GmbH.

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ASE Optics Europe to Design Metrology System for Nuclear Fusion Experiment

Primary contractor Oxford Technologies Ltd. is developing a robot device to be used for inspection and maintenance inside the reactor. As a subcontractor, ASE will be responsible for design, mockup and testing of an in-vessel viewing and metrology system.

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Join Photonics Media's discussion group on **LinkedIn!** It's a forum for all things photonics, where you can keep up with the latest industry happenings and post your own company news and product announcements.

Entanglement Effect Doubles Laser Beam Data Capacity

Beams from ordinary laser pointers can be made to mimic the phenomenon of quantum entanglement, potentially doubling the amount of data they can carry.

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Efficient Spectroscopic Imaging Demonstrated In Vivo

The technique works by coding individual photons from a pulsing laser with a megahertz radio frequency and then collecting those photons with a detector after they have interacted with tissue. The system was demonstrated in human breast cancer detection.

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Record-Setting Phototransistor is Flexible and Sensitive

Inspired by mammals' eyes, a record-setting phototransistor could improve the performance of myriad products — from digital cameras, night-vision goggles and smoke detectors to surveillance systems and satellites — that rely on electronic light sensors.

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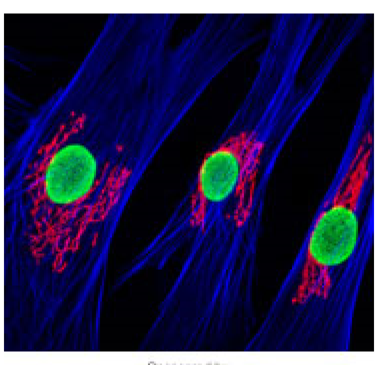
WEBINAR



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REGISTER NOW

How Can I Build a Microscopy System for Optogenetics?

Thursday, Nov. 12, 1 p.m. EST

FREE WEBINAR

Kavita Aswani Ryan Geil

Optogenetics is a technique that uses light to activate or inhibit cellular activities. Most researchers are interested in using this technique, but are apprehensive about the setup and not sure where to start. This webinar will educate users about optogenetics and its applications, and describe how to set up systems that use this powerful technique.

Industry Events

American Society for Cell Biology Annual Meeting - Dec. 12-16 · San Diego

The 2015 ASCB meeting theme is about making connections at different scales, from the intracellular level to the tissue level, and from the organism level all the way up to the macrocosmic level. This integration will help us ask the right questions and find answers to challenging problems in medicine, living systems and ecosystems.

More info >>

CALL FOR ARTICLES!

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *Industrial Photonics*, *BioPhotonics* and *EuroPhotonics*). Please submit an informal 100-word abstract to Group Publisher Karen Newman at **karen.newman@photonics.com**

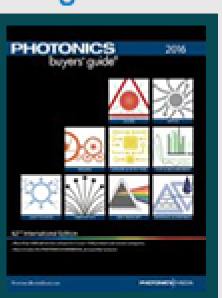
FEATURED VIDEO

Laser Quantum – CW and Ultrafast Photonics

Watch the Laser Quantum short film showing the breadth and range of products manufactured by Laser Quantum. With industry experts presenting: Discover the benefits of Laser Quantum's CW range; How Terahertz spectroscopy works in the HASSP; Applications of the unique GHz repetition rate of the taccor and the Shortest pulse commercially available in the venteon ultra.

PHOTONICS buyers' guide

Looking for **Imaging and sensing products?** **Search** the Photonics Buyers' Guide or Browse these product categories:



Color CCD Cameras
Diamond Machining Services
Fiber Optic Sensors
Image Analysis Software
Infrared Imaging Systems
Laser Scanners