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Thursday, March 12, 2015

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.

Black Phosphorus Shows Promise in Optical Circuits



With a tunable bandgap, black phosphorus could be used to make better optical communications circuits than graphene and even germanium.

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133-MP CMOS Image Sensor Eliminates Bulky Optics for 8K Broadcasting

An unprecedented 133-MP, 60-fps CMOS image sensor is being eyed for ultrahigh-definition TV broadcasting.

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Laser Weapon Stops Truck in Field Test

Operating at the highest power ever documented for a system of its type, a laser weapon under development by Lockheed Martin disabled the engine of a small truck during a recent field test.

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Featured Products

 <p>Horizon Mid-Band OPO Continuum Inc.</p> <p>Continuum's Horizon offers up to 40% conversion efficiency, an extended tuning range into the vacuum ultraviolet (192-2750nm), narrow linewidth and active precision control throughout.</p> <p>More info >></p>	 <p>Spectroscopy-Certified Laser Diodes Photodigm Inc.</p> <p>Photodigm's latest advances in DBR lasers have led us to the development of advanced packaging. Thermal management of the high power was among our first considerations followed by small volume, rapid tuning, and volume manufacturing.</p> <p>More info >></p>	 <p>Mini and Micro Lens Elements Argyle International</p> <p>Argyle has added a new series of miniature and micro lens elements to its line of custom optics. Lens designs range from single and double convex, single and double concave, meniscus, rod lenses, and rod doublets and triplets.</p> <p>More info >></p>
 <p>High-Performance Nanopositioners Mad City Labs</p> <p>The Nano-MET series of high performance nanopositioning systems has been designed specifically for precision metrology applications. Products include Nano-METZ, Nano-MET10 & 20 and Nano-MET2 & 3.</p> <p>More info >></p>		

More Articles on Photonics.com

Narrower Lasers Could Yield Better Atomic Clocks



To achieve even better atomic-clock precision, researchers at the Niels Bohr Institute have devised a new way to narrow the linewidth of the red lasers that excite the electrons that function as the clock's pendulum.

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Nanowire Optical Properties Tuned by Alloy Catalyst

A new growth catalyst gives greater control over the colors of light emitted by gallium nitride nanowires.

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Chalcogenide Fibers Mimic Brain Functions

A variety of broadband photoinduced effects allow metal-sulfide fibers to be switched on and off. This optical switching can be exploited for a variety of next-generation computing applications capable of processing vast amounts of data in a much more energy-efficient manner.

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Light Matters



In this edition of the industry's **premier weekly newscast**: We drop by Abu Dhabi, where the Solar Impulse 2 recently took off on a solar-powered flight around the world. We also learn about the latest 2-D wonder material, a promising new approach to flexible displays, and an effort to recruit the next generation of photonics technicians.


Kopin Names VP for Defense Business Development, Unveils New Manufacturing Process

The NanoJet process releases tiny drops of liquid crystal material with variations in weight within a few nanograms. This allows highly controlled and uniform layering, yielding superior image quality and higher brightness in the company's transmissive CyberDisplay and reflective LCOS (liquid crystal on silicon) displays.

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Phase Encoding, Photon Counting Yield Secure QR Codes



Microscale QR codes coupled with optical phase and photon-counting encryption could be used to protect the integrity of microchips used in the most sensitive applications.

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MicroVision Sets Sights on Revenue Growth in 2015

Picoprojector firm MicroVision Inc. is eyeing revenue growth in 2015 as it moves from development mode into product sales and licensing mode.

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WEBINAR




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Concentrator Photovoltaics: Not Just Solar Cells

Wednesday, March 18, 2015, 1 p.m. EDT

FREE WEBINAR



Dr. Antonio Luque

An efficiency of 46 percent has recently been achieved with four-junction solar cells under a concentration on the cell of 508 times the normal solar power flux on the Earth's surface. Such high efficiencies are the driving force for the development of the concentrator photovoltaic (CPV) technology.

WEBINAR



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Light-Assisted 3-D Bioprinting of Micro- and Nanoscale Functional Biomaterials

Thursday, March 19, 2015, 1 p.m. EDT

FREE WEBINAR




Dr. Shaochen Chen

Femtosecond laser nanoprinting and projection 3-D bioprinting techniques allow the direct writing of 3-D designer scaffolds used for tissue engineering and regenerative medicine. These 3-D biomaterials are functionalized with precise control of micro-architecture, mechanical, chemical and biological properties.

Industry Events

Laser World of Photonics China 2015 - March 17 to 19, 2015 · Shanghai New International Expo Centre



Asia's largest trade fair for the photonics industry has taken place in Shanghai every year since 2006 and celebrates its 10th anniversary in 2015. It presents the entire range of photonics in an international setting, tailored to the specific needs of the Chinese market. The event coincides with Electronica China, Productronica China and Semicon China.


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THE PULSE OF THE INDUSTRY

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FEATURED VIDEO



New Scale Technologies – Developers Kit

New Scale Technologies demonstrates the developer's kit for the M3-FS focus module, a miniature focus system for use in handheld and portable instruments. No larger than a fixed lens holder, the M3-FS moves M16x1 mm lenses with 0,5 micron resolution and high dynamic stability. It runs on battery power with integrated controller.

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