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Thursday, March 5, 2015

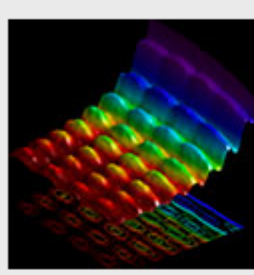
CALLING ALL BIOPHOTONICS INNOVATORS!

Call for Presentations
Biophotonic Imaging for Medicine:
A Digital Conference



ABSTRACT DEADLINE APPROACHING
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.

Light's Wave-Particle Duality Visualized (with video)



The wave-particle duality of light is well known, though experiments to date have only been able to observe one property at a time. But now a team of researchers in Switzerland and the U.S. has used a specialized electron microscope to capture light behaving as a particle and as a wave simultaneously.

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Tyndall to Lead \$6M Project on Photonic Circuits for Data Transmission

The Thermally Integrated Smart Photonics Systems (TIPS) project is funded under the EU's Horizon 2020 program and includes industry and research partners from Ireland, Germany, the Netherlands and France.

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Germany Opens Digital Photonic Production Research Campus

Alongside laser additive manufacturing methods, work at the DPP research campus will also harness manufacturing techniques that use ultrafast lasers, as well as new kinds of vertical-cavity surface-emitting laser (VCSEL) beam sources.

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Featured Products



pco.edge gold 4.2

PCO AG
The PCO group expands their scientific CMOS family pco.edge with another model. The brand new member with deep cooling is called pco.edge gold 4.2 and convinces with outstanding features.

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Ultra-Narrow Filters

Alluxa
Alluxa's ultra-narrow filters, for applications such as laser clean up, LIDAR, telecommunications and instrumentation, offer the narrowest and "squarest" filter profiles in the visible and NIR.

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Dynamic Laser Interferometer

4D Technology Corp.
The PhaseCam® 6000 is an extremely compact and lightweight laser interferometer for measurement of optics and optical systems.

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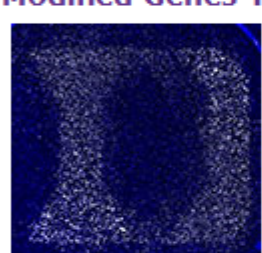
Laser Diode Test System

Yelo Limited
The Y1000L is a universal tester capable of burn-in aging and lifetime testing of multiple photonic devices at the same time. This means any photonic device, any package style and using any test recipe.

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Modified Genes Triggered by Blue Light



This type of control could enable deeper study of specific genes' functions, create complex systems for growing tissue and perhaps healing technologies, according to researchers at Duke University.

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Printable Filters Manage THz Communications

Plasmonic filters created with an off-the-shelf inkjet printer could enable blazing-fast wireless downloads and clearer cellphone calls using the terahertz spectrum.

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Profitable Faro Pushes Further into Law Enforcement

Faro Technologies Inc. said its newest laser 3-D scanning products performed well as it closed the books on 2014 and announced a new acquisition.

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On this week's edition of the industry's **premier weekly newscast**: A researcher on the cutting edge of a totally new approach to optics unveils an achromatic metasurface, standard printers help advance terahertz communications and two European photonics research projects get underway. We also get a new perspective on Rochester, N.Y., and how it's celebrating the International Year of Light.

Ferro Acquires Laser Marking Firm TherMark for \$5.5M

TherMark's technology uses lasers to permanently fuse marking materials to metals, ceramics, glass, plastics and other hard surfaces. The process creates high-contrast, high-resolution marks for purposes of decoration and identification.

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Nanostructures Enable Step Toward OLED Lasers



Organic LEDs made with finely patterned nanostructures can produce bright, low-power light sources, a key step toward making organic lasers.

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JDSU Reveals Spinoff Names: Lumentum and Viavi

Lumentum will develop optical components and subsystems for the data communications market, as well as lasers for both macro and micro materials processing applications. It will focus on growing its 3-D sensing and commercial lasers business and expanding into other market segments that can benefit from optical and laser technologies.

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WHITE PAPER

Narrow-Line Fiber-Coupled Modules for DPAL Pumping

DILAS Diodenlaser GmbH

A new series of fiber coupled diode laser modules optimized for DPAL pumping is presented, featuring greater than 400W from a 600µm core fiber of 0.22NA. Addressing one of the key challenges in DPAL pumping, the modules achieve a spectral width of <<0.1 nm and wavelength tunability of +/- 0.15 nm. A limiting factor in the reduction of the spectral line width is the optical absorption induced thermal gradient inside the VHG. Simulated profiles and demonstrated techniques to minimize thermal gradients will be presented. Data is shown for potassium pumping at 766 nm, with full applicability to other wavelengths of interest.

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WEBINAR

Nanometer-Level Positioning: A Mechatronic & System Design Approach

Wed, Mar 11, 2015 1:00 PM - 2:00 PM EDT

FREE WEBINAR



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Brian O'Connor

Nanopositioning, or moving objects with atomic-scale precision, is a key enabling technology in areas such as semiconductor processing, microscopy and nano imaging, hard-drive and electronics manufacturing, and medical device manufacturing. The ability to reliably position a sensor, tool, or part to nanometer-level tolerances requires a deep understanding of all components in a motion system.

Industry Events

Pittcon 2015 - March 8-12, 2015 · Ernest N. Morial Convention Center, New Orleans, La.



Pittcon 2015, the 66th annual Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, will cover of all aspects of analytical science and instrumental analysis. Scientists and educators will have the opportunity to hear about recent scientific advances, get updated on leading edge applications and techniques and network with world-class researchers.

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FEATURED VIDEO



John Wilson
VP Sales & Marketing



DataRay - BeamMap2

The patented BeamMap2 multi-plane scanning slit profiler uniquely speeds measurement and adjustment of focused and divergent laser beam assemblies, either as a standalone instrument, or interfaced to automated adjustment systems. This brief video describes the BeamMap2 operating principles and shows example measurements on actual focused and diverging beams.

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