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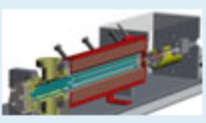
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Photonic FEL Enables Better Drug Profiling



The combination of a free-electron laser and a photonic crystal enables better "fingerprinting" of a drug than is possible via chemical analysis, according to its developer, doctoral student Thomas Denis of the University of Twente. While current terahertz lasers are very large, Denis' pFEL is not much bigger than a domestic microwave oven, thanks to the use of photonic crystals. Despite its small size, the source can still provide high power.

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Edmund Optics - Fluorescence Microscopy with Tunable Filters

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Coherent Acquires Lumera Laser for \$52M

The laser giant said the acquisition, its third in recent months, will provide customers with the broadest selection of ultrafast industrial solutions through the combined technologies of Coherent, Lumera, Innolight and Midaz.

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Silicon Photonics Panel Returns to Photonics West

Silicon photonics and photonic integrated circuit technology will be discussed by a panel of five industry leaders at SPIE Photonics West in San Francisco in February.

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Heraeus Noblelight Group Acquires Fusion UV

Spectris plc signed an agreement to sell its Fusion UV business group to Heraeus Noblelight, a unit of Heraeus Holding GmbH, for \$172 million.


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Products on PhotonicsBuyersGuide.com

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In this edition of the industry's premier weekly newscast, we bring you the top research stories of 2012, according to photonics.com readers. Hosted by Photonics Media's Melinda Rose and Laura Marshall.



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Testing for 100G?

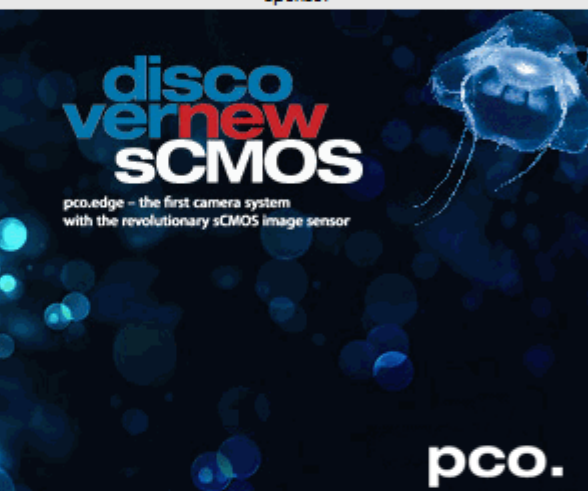




Tektronix Can Help with the Complexities



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Laser Technique Reveals How Ear Amplifies Sound

When illuminated by an ultraviolet laser, a new photonic drug has been shown to inactivate prestin, a motor protein in the ear, revealing how the cochlea amplifies sound, say Dr. Jonathan A.N. Fisher and colleagues at The Rockefeller University.

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Standardized Testing for Skin Damage

A laser microscopy technique can be used to gauge a person's true age from his/her most shallow layer – the skin. The method could provide a standardized way to measure the extent of skin damage and the effectiveness of anti-aging skin products.

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Photonic Innovations Among Lockheed Contest Winners

Among the five winners of Lockheed Martin's Innovate the Future challenge are two photonic innovations: an idea for enhancing solar cell efficiency, and a photonic sensor that detect tumors in the body.

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OFC/NFOEC Keynote Speakers Announced

High-speed broadband deployment challenges, software-defined networks and cloud services are keynote topics to be discussed by three industry leaders at the 2013 Optical Fiber Communications Conference and Exhibition/National Fiber Optics Engineers Conference (OFC/NFOEC) in Anaheim, Calif., in March.

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Industry Events

Automate 2013 - January 21 - 24, 2013 · Chicago, IL

Visit us at booth 127



Automate – formerly the International Robots, Vision & Motion Control Show – is the largest solutions-based showcase of automation technologies in North America. The biennial event demonstrates the latest robotics, vision, motion control and automation technologies and solutions for a broad array of industries. The 2013 event features four full days of classes taught by experienced industry professionals, Certified Vision Professional (CVP) basic and advanced certification opportunities, and keynote presentations on the impact of robotics on economic growth and navigating the new political climate for business growth and success.

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PHOTONICS buyers' guide

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- Optical Transfer Function Instrumentation
- Positioning Equipment
- Spectrofluorometers
- Wavefront Analyzers



Photonics West 2013 - February 2 - 7, 2013 · San Francisco, CA

Visit us at BIOS Booth 8600 and Photonics West Booths 600 & 601



Photonics West 2013, to be held at the Moscone Center, will feature more than 4450 technical presentations, 18 plenary talks, 40 technical events and 70 continuing education accreditation short courses. The technical conferences - up about 5 percent over last year - are organized around four symposia: BIOS (Biomedical Optics), LASE (Lasers and Applications in Science and Engineering), OPTO (Integrated Optoelectronic Devices) and MOEMS-MEMS (Micro- and Nanofabrication). A virtual symposium on Green Photonics also will be held. The trade show and conference kicks off with BIOS, where the latest optical and photonic technologies used in diagnostics, therapeutics, and imaging are presented and discussed.

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