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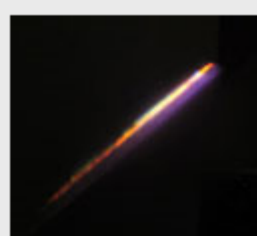
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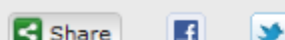
Thursday, October 30, 2014

Video Captures Laser Pulses at '1 Billion FPS'



Hollywood laser blasts give off bright colors and are easy to track with the eye. In real life, laser pulses flash by faster than the eye — or even the fastest camera — can follow. To visualize the propagation of a roughly 12-fs pulse, researchers from the Polish Academy of Sciences and the University of Warsaw used a clever trick to approximate a frame rate of 1 billion fps.

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Berthold Leibinger Foundation Names 2014 Prize Winners

Dr. Alexander Oraevsky has received first prize in the 2014 Berthold Leibinger Innovations award program, presented by the Berthold Leibinger Stiftung Foundation.

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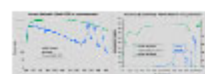
Blue LED Controls New Diabetes Drug

A new drug for Type 2 diabetes can be controlled with violet-blue light to more effectively release insulin from the pancreas.

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Products on PhotonicsBuyersGuide.com



Improve UV-Vis-NIR Spectrophotometer Performance

MOXTEK

The Moxtek® Proflux® UVD260 and UVD240 analyzers improve UV-Vis NIR Spectrophotometer performance. The graph shows how a GTN polarizer can absorb water and produce erroneous measurements in the IR.

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Mid-IR Bandpass Filters

Alluxa

Alluxa announces a new line of high performance durable hard coated, mid-IR bandpass filters and multi-bandpass filters featuring ultra-high transmission and no measurable absorption in the water band.

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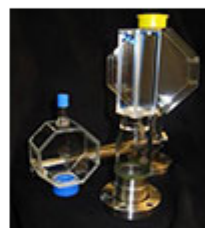


YAG Series and NLO Laser Crystals

Cryslaser, Inc.

Manufactures laser crystals including YAG series and NLO. Cryslaser offers 40+ years experience in the growth of YAG crystals and provides diffusion bonding crystals, and Nonlinear crystals including BBO, LBO, and KTP.

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Cold Atom Cells

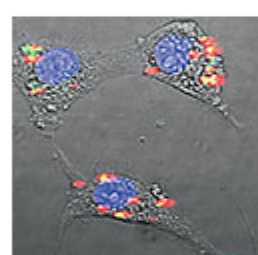
Triad Technology

The field of cold atom physics deals with cooling collections of atoms to sub-milli-Kelvin temperatures using laser cooling techniques. The study of cold and ultracold atoms offers insight into the laws of physics.

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Grant Award Furthers Study of SWIR Light for Detecting Cancer



A research team is continuing to develop a new medical imaging method that would reduce, or even eliminate, the need for invasive cancer biopsies.

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Laser Scanner Captures 3-D Info in Real Time

A 3-D laser scanner based on the human eye can focus on key sections of an image, capturing it with correspondingly higher resolution.

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Algae Carbon Flow Controlled by Changing Light Colors

Researchers have found that blue and red light-sensing photoreceptors can be used to control the carbon flow in diatoms.

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In this edition of the industry's **premier weekly newscast**: We feature an interview with the inventors of a laser-based approach to combatting malaria, a talk with Rice University spectroscopy and imaging professor Dr. Rebecca Richards-Kortum, and other highlights from the recent Frontiers in Optics and ICALEO conferences.

Laser Combiner a Compact Solution for Wearable Displays

A laser beam combiner no larger than a grain of rice can enable laser-scanning displays in wearable computer systems.

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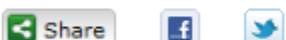


OSA Elects 2015 Vice President



Professor Dr. Eric Mazur of Harvard University has been named the 2015 vice president of The Optical Society (OSA).

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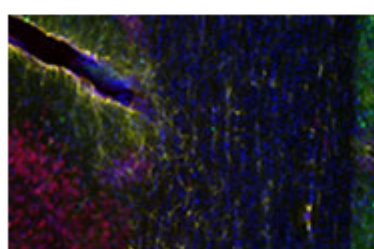
Nanoconstructs Aid Ovarian Cancer Targeting

Newly developed nanostructures have proven to be effective vehicles for laser imaging and ablation of ovarian cancer cells.

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WEBINAR



Time-Lapse Imaging with Lamp and LED – Stability vs Repeatability

Wednesday, November 5, 2014 2:00 PM - 3:00 PM EST

FREE WEBINAR



Kavita Aswani

Dr. Kavita Aswani, Senior Applications Scientist for the Life Sciences products at Excelitas Technologies, will discuss the differences in stability between Lamps and LEDs, and also explain the importance of repeatability when comparing images taken between time points, whether this is within the same short experiment or a longer time-lapse experiment.

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Industry Events



Vision 2014 - Nov. 4-6, 2014 - Stuttgart, Germany

The Vision 2014 machine vision trade fair offers a look at the latest developments and applications in machine vision, as well as advances in traditional processes.

Targeting OEMs and mechanical engineering companies, the event will feature the latest innovations from the world of machine vision components. It also provides end users with information for specific machine vision solutions and the opportunity to meet numerous system integrators.

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THE PULSE OF THE INDUSTRY



FEATURED VIDEO



Paul Corr

President

Arroyo Instruments

Arroyo Instruments - 4400 LaserSource and 5400 TECSOURCE

Arroyo President, Paul Corr, talks about two new products, the 4400 LaserSource and the 5400 TECSOURCE. He also discusses the 286 Mount with a standard breadboard plate which can be paired with either the 4400 or 5400 models.

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