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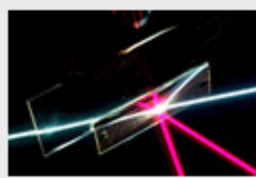
www.lightmachinery.com



PHOTONICS.com

Thursday, April 3, 2014

System Pushes Better Light Control



More precise control of light could be on the horizon, prompting advances in solar photovoltaics, among other applications. Researchers from MIT have developed the first system that allows light of any wavelength to pass through from a specific direction, and that reflects all light coming from other angles.

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Optical Pulses to Deflect Asteroids

A team of researchers has found that optical energy shaped by quantum phenomena, used in conjunction with the microgravity and vacuum of space, could deflect asteroids from a collision with Earth.

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Rutgers Professor Takes Top SPIE Prize

James Harrington, a professor at Rutgers University, has received SPIE's 2014 Gold Medal Award for his pioneering research on fiber optics and IR optical materials.

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Products on PhotonicsBuyersGuide.com



Precision Laser Diode Driver

IXYS Colorado

The PCX-7401 is an air-cooled, benchtop pulsed and CW laser diode driver current source featuring separate pulse and bias current adjustment designed.

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Photodigm distributed Bragg reflector lasers are the architecture of choice where high power within a well-defined operating range is essential.

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Cryslaser Inc.

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3-D Cell Imaging Through Microfluidic Channels

A microscopy technique developed in 2007 by scientists at MIT enabled 3-D imaging of the interior of living cells without using fluorescent or other markers. Recent adaptations have taken this a step further.

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Combining Technologies Creates Ultrathin Light Detectors

A first-ever combination of technologies has resulted in the creation of an extremely thin light detector.

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FBGS, 4DSP Enter Strategic Partnership

FBGS and 4DSP have joined forces to enhance the field of fiber optic sensing technology.

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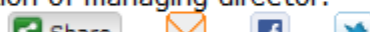


In this edition of the industry's **premier weekly newscast**: IR technology spots nuclear weapons sites, a new light-control system could spark advances in solar photovoltaics, and lasers could be used to blast asteroids.

Wilmot to Head Andor Technology

Andor Technology plc has promoted Gary Wilmot to the position of managing director.

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Guide Star Set for VLT

A new solid-state laser aims to give giant Earth-bound telescopes better vision by reducing atmospheric distortion.

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Superabsorbing Method Improves Solar Cell Efficiency

A newly designed superabsorbing solar cell has the potential to significantly improve the light absorption efficiency of thin-film solar cells without compromising solar light absorption capabilities.

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WHITE PAPER

Power Technology's iMAT® DPSS Laser Platform Ideal for Raman Spectroscopy

Power Technology, Inc.

Power Technology's iMAT® series of DPSS lasers are inherently beneficial to the Raman Spectroscopy industry because of its patented technology which inherently produces actively stabilized single frequency wavelengths at 532 nm and 1064 nm. This revolutionary technology earned international recognition by winning the Frost & Sullivan European Diode-Pumped Solid State Laser Technology Innovation of the Year award in 2009.

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WEBINAR

Light Advances in Biomedicine

Wednesday, April 9, 2014, 1 - 2 PM EDT

FREE WEBINAR



Dr. Robert Alfano

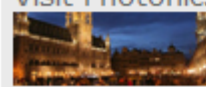
Photonics Media will host Dr. Robert R. Alfano, distinguished professor of science and engineering at The City College of the City University of New York, who will present major advances in optical biopsy and imaging spectroscopy. Alfano will discuss the key fingerprints to detect aggressive cancer cells; two new NIR spectral windows for imaging with less scattering of light in tissue; the use of upper singlet S2 for dyes to increase imaging depth using two-photon techniques; the use of spatial frequency spectra to detect structure in cancerous tissues and the brain; and, most of all, the use of supercontinuum - the ultimate white light - in biomedicine applications.

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Session topics to be featured include metamaterials, nanophotonics, photonic crystal materials and devices, micro-structured and specialty optical fibers, silicon photonics and photonic integrated circuits, and photonics for solar energy systems.

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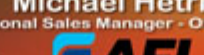
THE PULSE OF THE INDUSTRY



FEATURED VIDEO



Michael Hetrick
Regional Sales Manager - OEM Market



AFL - LZM 100 LAZERMaster

The LZM-100 LAZERMaster produces a clean and stable heat source via a CO2 laser to perform splicing, adiabatic tapering, lensing or other glass-shaping operations. The LZM possesses large-diameter capabilities up to 2.3 mm and long tapering capabilities up to 150 mm. Company: AFL* (South Carolina, US) Product: LZM-100 LAZERMaster Website: www.AFLglobal.com

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