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Thursday, September 3, 2015



Light Matters

The Nobel Prize was just the beginning. Find out about the new frontiers of superresolution microscopy this week on Light Matters!

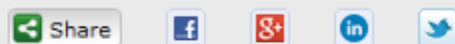
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Feedback Provides Better Optogenetics Control



Feedback control could give optogenetics the specificity it needs to fight neurological disorders like epilepsy, chronic pain and depression.

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Northrop Grumman Wins \$50M in US Military Contracts for IR Countermeasures

Also taking part in one projects are Daylight Solutions Inc. of San Diego and Selex ES of Edinburgh, Scotland.

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Plessey Granted £6.7M to Expand LED Factory

The company will increase its manufacturing capacity from more than 100 million mm² of GaN material per year to more than 3 billion mm².

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Featured Products



Optical Wavelength Meter

Bristol Instruments
Able to measure absolute wavelength to an accuracy of 1 pm, the 828B optical wavelength meter from Bristol is suitable for use with wavelength-division multiplexing (WDM) lasers.

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Laser Rotary Encoders

Canon U.S.A.
Canon R-1 series Laser Rotary Encoders offer high performance in a very compact 36mm diameter body. All models utilize semiconductor laser diode, high precision grating disk, and diffraction and interference position sensing methodology.

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Mini and Micro Lens Elements

Argyle International
Argyle International has added a new series of miniature and micro lens elements to its diverse line of custom optics. Precise control of surface quality and centering make these lenses a good choice for your design.

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AccuFiz IR Laser Interferometers

4D Technology Corp.
AccuFiz® IR laser interferometers operate at wavelengths of 1.55 micron (SWIR), 3.8 micron (MWIR) and 10.6 micron (LWIR), for accurate measurement of polished or rough-ground optics and metal surfaces.

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More Articles on Photonics.com

Marines Use Augmented Reality in Live-Fire Testing



The new system is intended to support an array of training scenarios by injecting virtual images, indirect fire effects, aircraft, vehicles, simulated people and more onto the real-world view of a soldier's surroundings.

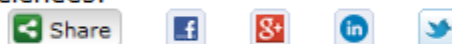
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Laser Diode Micro-Optics Enhance Cutting

Although a high-power diode laser operates at a relatively modest brilliance, optimized micro-optics make it well-suited for the rapid and precise cutting of 6-mm-thick stainless steel. That's the conclusion of Brilamet, a research project carried out by the German company Limo and the Münster University of Applied Sciences.

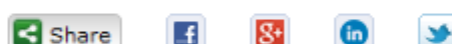
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Synopsys Recognizes Student Imaging Designs

The annual Robert S. Hilbert Memorial Optical Design Competition recognizes North American students working toward a degree who submit optical design papers using Synopsys' Code V or LightTools software.

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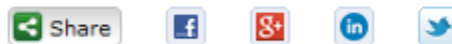


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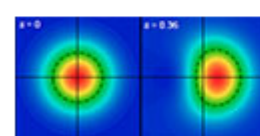
Pemamek System to Be Used in Laser-Arc Welding Study

Seam qualities will be studied from R&D and production points of view. Four midsize companies have joined the research project, led by Savonia University of Applied Sciences in Finland, which will continue through 2016.

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Individual Photons Squeezed by Quantum Dots



Squeezing is quantum phenomenon that produces an extremely low-noise signal potentially useful in technology designed to pick up faint signals, as well as in optical communications.

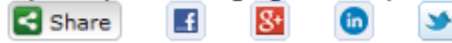
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Imaging to the Rescue in Fight against Invasive Bugs

Ravenous insects smaller than a penny continue to migrate from the Southeast, threatening to destroy millions of pine and ash trees in the Northeast. Now NASA has teamed with the U.S. Forest Service to combat the problem using an array of optical imaging techniques.

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Industry Events



2015 IEEE Photonics Conference - Oct. 4-8 · Reston, Va.

Previously known as the IEEE LEOS Annual Meeting, the conference offers technical presentations by the world's leading scientists and engineers in the areas of lasers, optoelectronics, optical fiber networks and associated lightwave technologies and applications. It also features compelling plenary talks on the industry's most important issues, weekend events aimed at students and young photonics professionals, and a manufacturers' exhibition.

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THE PULSE OF THE INDUSTRY



FEATURED VIDEO



Rüdiger Hack
Managing Director
LASER 2009

Admesy BV – Spectrometers and Spectrocolorimeters

At Laser world of Photonics Admesy showed their latest range of spectrometers and spectrocolorimeters aimed at the lighting industry. Admesy CEO, Steven Goetstouwers demonstrates the products and shows their ease of integration.

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