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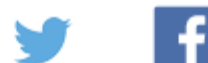
[www.lightmachinery.com](http://www.lightmachinery.com)



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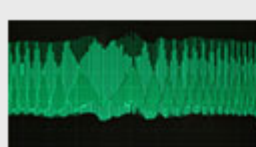
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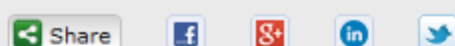
**Thursday, July 2, 2015**

## Frequency Combs Reverse Crosstalk, Extend Range of Fiber Transmission



In laboratory experiments, researchers successfully deciphered information after it traveled a record-breaking 12,000 km through fiber optic cables with standard amplifiers and no repeaters.

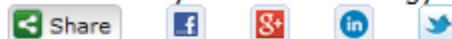
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## €6.2M Project Aims for 25% Efficiency from Thin-Film Solar Cells

A consortium of 11 European universities, research facilities and businesses has set out to create thin-film solar cells to rival the efficiency and cost of multicrystalline technology.

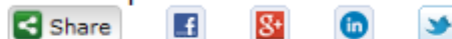
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## Konica Minolta Eyes Automated Inspection Market with Acquisition of Radiant Vision Systems

Konica Minolta said the acquisition will strengthen its position in the display and light source color measurement sectors, and allow it to enter the growing market for automated inspection systems in manufacturing, including visual surface inspection.

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### Featured Products



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Angstrom Precision Optics APO is proud to be a leading global manufacturer of high quality precision optical and photonic components with over 30 years of optics experience, we have the expertise to support customers in a range of fields.

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**Spectroscopy-Certified Laser Diodes**

Photodigm Inc. Photodigm's latest advances in DBR lasers have led us to the development of advanced packaging. Thermal management of the high power was among our first considerations followed by small volume, rapid tuning, and volume manufacturing.

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**Blue Laser Modules**

Laser Components USA The Flexpoint laser-module series from Laser Components USA Inc. now includes dot and line lasers emitting at 488 nm.

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**CMOS Cameras**

PixelINK PixelINK has announced the PL-D752 and PL-D792 CMOS cameras, two new, 2.3-MP global shutter CMOS models for its family of USB 3.0 vision cameras.

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#### Optical Cavity Allows Measurement of Nanosystems



"For an ordinary microscope, the signal would be only a millionth of the input power, which is hardly measurable," said David Hunger, who led the German team that built the microscope. "Because of the resonator, the signal gets enhanced by a factor of 50,000."

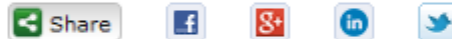
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#### Continuously Disinfecting Light Fixtures Commercialized

Indigo-Clean emits high-intensity narrow-spectrum (HINS) visible light at 405 nm, which produces a chemical reaction that kills bacteria from the inside, as if common household bleach had been released within the bacterial cells.

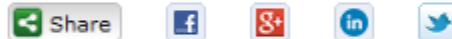
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#### Lasers Improve Blade Maintenance for Stone Cutting

A new mobile, laser-based process for attaching and removing cutting segments virtually eliminates the thermal stress caused by soldering, which can warp blades and degrade cutting quality.

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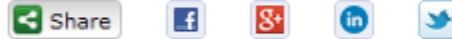
This week on *Light Matters*:

**The world's biggest players laser lighting, welding, surgery and more gather in Munich.**

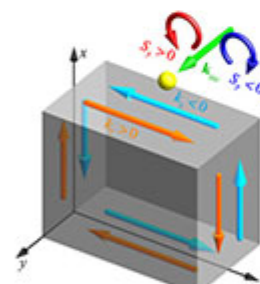
#### Strain Measurement Optimizes Nanowire LEDs

Tiny defects can affect the performance of nanowire LEDs. Now researchers have a way to detect these defects and potentially correct them.

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#### Spin Hall Effect Called Fundamental Property of Light



"On a purely scientific level, this research deepens our understanding of the classical theory of light waves, developed by James Clerk Maxwell 150 years ago, and it could also lead to applications using optical devices that are based on the direction of spin," said Konstantin Bliokh of the Riken Center for Emergent Matter Science.

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#### Flexible Film Creates Colors from Reflected Light

From couture to camouflage, a new ultrathin color-changing film could one day change what we wear.

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### WEBINAR

#### Laser Illuminated Maskless h-line Lithography

Wed, Jul 8, 2015 1:00 PM - 2:00 PM EDT

FREE WEBINAR



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Walter Burgess

Power Technology will present new options for h-line lithography. Laser light sources have become a viable alternative to LED illuminated maskless lithography systems. Laser technology has several key advantages that promote throughput and increase production rates. This advantage is most visible at higher optical power levels.

Walter Burgess, VP of Sales & Engineering at Power Technology, Inc., is a Central Arkansas native with over 18 years of experience in the laser and photonics industry.

### Industry Events

#### SPIE Optics & Photonics - Aug. 9-13, 2015 · San Diego Convention Center



This international, multidisciplinary optical sciences and technology meeting features the latest research in optical engineering and applications, sustainable energy, nanotechnology, organic photonics and astronomical instrumentation.

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FEATURED VIDEO



#### New Scale Technologies – Mini Focus Module

New Scale Technologies demonstrates the developer's kit for the M3-FS focus module, a miniature focus system for use in handheld and portable instruments. No larger than a fixed lens holder, the M3-FS moves M16x1 mm lenses with 0.5 micron resolution and high dynamic stability. It runs on battery power with integrated controller.

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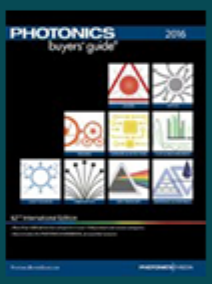
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