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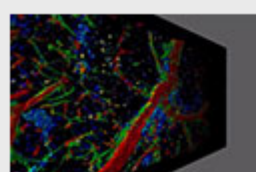
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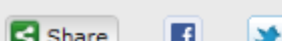
Thursday, October 9, 2014

3-D Imaging Platform Studies Cells in Action



Researchers at Drexel University are developing a 3-D software program — Lineage Editing and Validation (LEVER 3-D) — to identify, tag and track live cells, as well as capture patterns of motion and cell division, using sequences of microscopic time-lapse images.

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Washington Launches Integrated Photonics Manufacturing Initiative

The White House has announced a \$200 million competition to create an integrated photonics manufacturing institute.

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Photons Ride Optomechanical 'Seesaw'

A nanoscale "seesaw" that shuttles photons back and forth could present an optomechanical alternative for computing and sensing applications.

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Products on PhotonicsBuyersGuide.com



Opto Mechanical Integration

B-Con Engineering
B-con has earned its reputation in aerospace optics because of its depth of experience in the fields of laser systems integration, optical design and fabrication.

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Optical Digital Laser Rotary Encoder

Canon U.S.A.
Canon R-1 series Laser Rotary Encoders offer high performance (high resolution, accuracy, and precision) in a very compact 36mm diameter body.

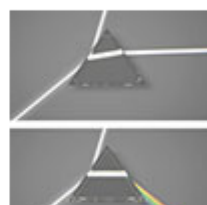
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High-Voltage Diodes

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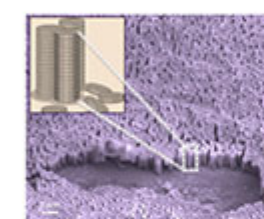
N-FK58 XLD Optical Glass

Schott North America, Advanced Optics
With its optical glass called N-FK58 XLD (XLD = extremely low dispersion), the international technology group SCHOTT has now launched a high-quality type of glass that offers extremely low dispersion and excellent processing characteristics.

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Nanopillars Enhance Solar Efficiency



Mimicking the highly efficient light-harvesting structures of blades of grass could boost power-conversion efficiency in solar panels.

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Laserage Acquires DLI Laser Processing Division

Laserage Technology Corp. has acquired the laser processing and contract manufacturing divisions of Directed Light Inc.

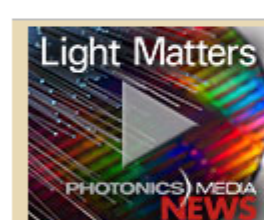
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Head-Up Display Augments Helicopter Pilot Vision

Recent testing of a new head-mounted display system has shown that helicopter pilots may be able to navigate without being able to see through the cockpit window.

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In this edition of the industry's **premier weekly newscast**: Government officials announce an integrated photonics manufacturing competition, nanocavities increase LED display outputs, a thermophotovoltaic system exhibits better absorption, and another edition of our EDU Spotlight.

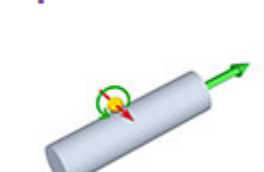
Nanocavities Increase LED Display Output, Contrast

Nanocavities can help light escape from LEDs to produce brighter, clearer and more efficient displays.

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Optical Switch Turns Polarization Into Direction



A single gold nanoparticle can translate light polarization into direction of propagation within ultrathin glass fiber.

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Blue LED Inventors Win Nobel Prize

Three LED developers have been awarded the 2014 Nobel Prize in physics.

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WHITE PAPER

Narrow Line Diode Stacks for DPAL

DILAS Diodenlaser GmbH

Diode pumped alkali metal vapor lasers (DPALs) offer the promise of scalability to very high average power levels while maintaining excellent beam quality, making them an attractive candidate for future defense applications. A variety of gain media are used and each requires a different pump wavelength: near 852nm for cesium, 780nm for rubidium, 766nm for potassium, and 670nm for lithium atoms. The biggest challenge in pumping these materials efficiently is the narrow gain media absorption band of approximately 0.01nm.

[DOWNLOAD WHITE PAPER >>](#)

WEBINAR

Camera Solutions to Increase the Bottom Line: Web Inspection/Print Control

Wednesday, October 15, 2014 1:00 PM - 2:00 PM EDT

FREE WEBINAR



Kelly Hanaway

Kelly Hanaway, director of engineering at QuadTech Inc., will share insights into what is needed from next-generation cameras and sensors for automated inspection. The webinar will discuss automated camera systems in industrial settings, as well as existing system limits and new ways such systems are being pushed by state-of-the-art printing and web processes.

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Industry Events

OSA Frontiers in Optics 2014 - Oct. 19-23, 2014 · Tucson, Ariz.



Frontiers in Optics is the annual Optical Society meeting and conference, held alongside the American Physical Society's Laser Science conference. The event brings together the two organizations to offer cutting-edge presentations, speakers and other events, all of which span a range of topics in optics and photonics.

Discussions and lectures will be featured, as well, on topics including Optical Design, Fabrication and Instrumentation; Optical Sciences; Optics in Biology and Medicine; Optics in Information Processing; Integrated Photonics; and Laser Science.

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THE PULSE OF THE INDUSTRY



FEATURED VIDEO



Michael Allen Director of Marketing & Product Development at Ocean Optics

Ocean Optics - IDRaman mini

Michael Allen, Director of Marketing and Product Development at Ocean Optics, talks about the Prism nominated IDRaman mini. The IDRaman mini is the smallest, most powerful handheld Raman instrument available today. It is designed to make rapid and accurate measurements that identify, authenticate and verify samples in the field.

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