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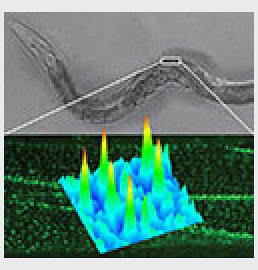
THE PULSE OF THE INDUSTRY

Thursday, September 25, 2014

Fluorescence Technique Probes Muscular Dystrophy



Scientists are gaining new insight into muscular dystrophy using a form of high-resolution fluorescence microscopy. The new technique, complementation-activated light microscopy, offers imaging resolutions an order of magnitude finer than conventional optical microscopy, and a better look at the behavior of biomolecules at the nanometer scale.

Read Article >>

Emcore to Sell Space PV Business for $150M

The business will be sold to an affiliate of private equity firm Veritas Capital, pending approval from Emcore's shareholders.

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Cell Phones Become Microscopes with 3-D Printing

3-D printing could help turn cellphones into high-powered microscopes, enabling them to identify biological samples in the field.

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Products on PhotonicsBuyersGuide.com

Flexible Microcircuits

Metrigraphics

Using additive photolithographic processes, extreme-resolution, microflex (ERMF) circuits can be manufactured with traces and spaces as small as five microns.

More info >>

Flow Sensors

First Sensor

First Sensor develops and produces state-of-the-art sensors for measuring mass and volumetric flow rates for medical technology or industrial applications.

More info >>

Taper Manufacturing Station

3SAE Technologies

The production-ready Taper manufacturing Station (TMS) with optional cleaving package is designed for use in the manufacturing of optical fiber tapers, bundles and couplers.

More info >>

Pellicle Technical Information

National Photocolor

Two of the most important attributes of pellicles are the elimination of secondary (ghost) reflection and the elimination of beam displacement and refractive error on transmission.

More info >>

More Articles on Photonics.com

Polarization Camera Sheds Light on Sea Life

A bio-inspired polarization camera has given marine biologists a better understanding of the mating rituals of the northern swordtail fish.

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Nuclear Spins Boost Electric Current in OLEDs

A spintronic approach has been used to power plastic organic LEDs at room temperature and without strong magnetic fields.

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Element Six Joins EU Disk-Laser Development Project

Element Six has been chosen to help develop a new ultrafast-pulse disk laser for the European Commission's Seventh Framework Program for Research and Technological Development.

Read Article >>

In this edition of the industry's **premier weekly newscast**: Squeezed light is transmitted through air, a color display technology mimics cephalopods' optical properties, and more!

'Electrode Barrier' Broken for Organic Solar Cells

A new organic solar cell has broken the "electrode barrier" known to hamper efforts to enhance efficiency.

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Photon State Teleported 25 km

Swiss physicists have attained quantum teleportation over more than four times the distance they achieved a decade ago.

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Optogenetic Tool Guides Brain Mapping

A new optogenetics technique could help map neural networks in living organisms.

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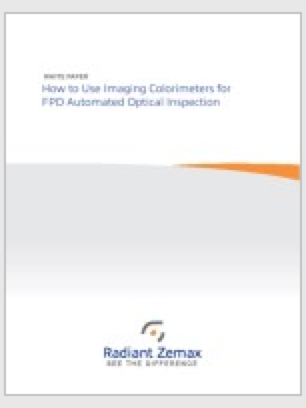
WHITE PAPER



How to Use Imaging Colorimeters for FPD Automated Optical Inspection

Radiant Zemax, LLC, Radiant Zemax Test and Measurement

The use of imaging colorimeter systems and analytical software to assess display brightness and color uniformity, contrast, and to identify defects in FPDs is well established. A fundamental difference between imaging colorimetry and traditional machine vision is imaging colorimetry's accuracy in matching human visual perception for light and color uniformity. This white paper describes how imaging colorimetry can be used in a fully-automated testing system to identify and quantify defects in high-speed, high-volume production environments.

DOWNLOAD WHITE PAPER >>

Industry Events

ICPEPA 2014 - Sept. 29-Oct. 3, 2014 · Matsue, Japan

The International Conference on Photo-Excited Processes and Applications features presentations by researchers and other experts on a range of topics, from fundamental laser-material interactions, theory and modeling to applications with nanoparticles and nanophotonics, as well as new trends in photo excitations.

Interactive sessions will feature plasmonics and nanoprocessing, ultrafast laser-induced nanostructering, and advanced laser processing for practical applications.

More info >>

CALL FOR ARTICLES!

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *Industrial Photonics*, *BioPhotonics* and *EuroPhotonics*). Please submit an informal 100-word abstract to Managing Editor Laura Marshall at **laura.marshall@photonics.com**

FEATURED VIDEO

AFL – LZM100 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 proprietary feedback system enables custom laser beam size, shape and power, while the proprietary software provides additional glass-shaping control and measurement.

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PHOTONICS buyers' guide

Looking for Fiber products? Search the Photonics Buyers' Guide or Browse these product categories:

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- Fiber Optic Sensors
- Infrared Coatings
- Laser-to-Fiber Couplers
- Optical Glass
- Tunable Diode Lasers

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