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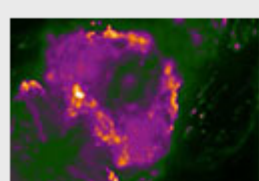
[www.lightmachinery.com](http://www.lightmachinery.com)



# PHOTONICS.com

Thursday, May 22, 2014

## Neuronal Imaging System Shows Bigger 3-D Picture



A new technique could lead to a better understanding of how neuronal networks process sensory information and even how behavior is created in the brain. Researchers have developed an imaging system that can show neural activity and generate 3-D movies of a living animal's entire brain at the millisecond timescale.

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## Broadening the Scope for Optically Active Compounds

Creating optically active chiral compounds, which are becoming more and more important in chemical manufacturing, just got a bit easier.

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## Metal Technology Now Using 3-D Printer

Metal Technology Inc. has purchased a direct metal sintering ProX 300 Production 3-D Printer to serve customers in the aerospace, defense and scientific industries.

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## Products on PhotonicsBuyersGuide.com



### ComboSource Laser Diode Controller

**Arroyo Instruments**  
The new 6300 Series ComboSource Laser Diode Controller offers the best of both worlds: a high accuracy, low noise laser driver and a powerful 60W temperature controller, all in one compact instrument.

[More info >>](#)



### Extreme™ Imaging Products

**Stanford Photonics**  
Stanford Photonics, Inc. designs and manufactures digital ICCD/ICMOS/CCD cameras for advanced imaging applications in the life sciences, commercial and military surveillance markets.

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### Optical Thin Film Products

**Keihin Komaku**  
Vacuum deposition technology requires advanced adjustment techniques. Everything from the selection of materials to the final product is examined and measured at various times throughout the process.

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### Time-Resolved Filter Fluorometer

**Optical Building Blocks**  
Optical Building Blocks announces the introduction of the EasyLife-X fluorescence lifetime system. The EasyLife-X is the simplest, smallest and least expensive fluorescence lifetime system commercially available.

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## More Articles on Photonics.com

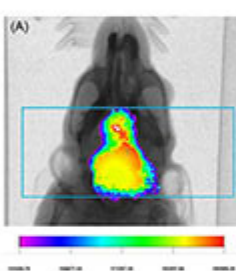
## Hyperbolic Metamaterials Advance Practical Applications

Optical imaging of objects as small as DNA strands could be possible using hyperbolic metamaterials.

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## Combined Imaging, Treatment Regime Targets Tumors



Researchers in Ohio have discovered a new approach to in vivo imaging of certain types of brain tumors using biofluorescent markers and an MAROI system.

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## Zeiss Profits Up 52% in First Half of Year

Carl Zeiss AG ended the first six months of its fiscal year with earnings up 52 percent from the first half of last year.

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In this edition of the industry's **premier weekly newscast**: A new imaging technique targets tumors, a laser mirror counteracts deformation, photodynamic therapy pushes deeper into body tissue, and I talk with Topotica Photonics President Mark Tolbert about the 2014 Technology Transfer program.

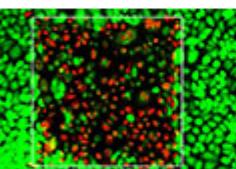
## Porous Silicon Uses Sunlight to Generate Hydrogen

A new porous silicon photocatalyst that generates hydrogen from water with help from sunlight could find applications in optical electronics, biosensors and batteries.

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## Light-Based Approach Pushes PDT Deeper into Body Tissue



A new technique uses NIR light to push photodynamic therapy treatment deeper into body tissue than ever before.

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## Avago Acquires LSI for \$6.6B

Avago Technologies Ltd. has completed its acquisition of LSI Corp. of San Jose, Calif.

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## WEBINAR



## Technology Transfer Program

Thursday, May 29, 2014 - 1 pm EST/10 am PST

**FREE WEBINAR**

Uta Stadermann, co-founder of the German startup StrataTherm, and Amy Phillips, senior licensing manager for the Technology Transfer program at the University of Arizona, will offer tips for researchers looking to turn their discoveries into marketable products. This offers a look at the Technology Transfer program that will be part of the annual CLEO conference next month in San Jose, Calif.

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## Industry Events

### Photonics North 2014 - May 28-30, 2014 - Montreal, Canada



The 16th annual conference combines theory, development and application, bringing together researchers, companies and the latest scientific developments in the photonics industry.

A number of course sessions will be offered on topics such as high-power laser technology, optoelectronics, photonic theory and design, nonlinear optics and nanophotonics. Speakers scheduled to present include Demetrios Christodoulides (CREOL), David Plant (McGill University), Mordechai Segev (Israel Institute of Technology) and Alain Villeneuve (Genia Photonics).

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## PHOTONICS MEDIA

THE PULSE OF THE INDUSTRY



## FEATURED VIDEO



Jim Johnston, Automation Systems Group Manager, Aerotech, Piezo Nanopositioners

## Aerotech - Q-Series Piezo Nanopositioners

Jim Johnston, Automation Systems Group Manager presents Aerotech's new QNP Piezo Nanopositioners and QLAB Piezo Controller. QNP stages offer sub-nanometer resolution and best-in-class stiffness and resonant frequency in a compact package, making them the ideal solution for high-performance, space-constrained applications such as interferometry, microscopy and precision alignment.

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