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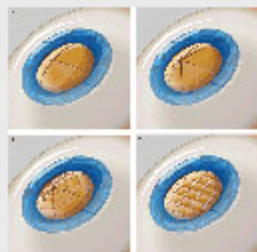
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# BIOPHOTONICS

BRINGING LIGHT TO THE LIFE SCIENCES

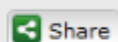
Wednesday, April 23, 2014

## Seeing the Light: How Photonics Continues to Improve Eyesight



The latest laser technologies are advancing the treatment of cataracts, macular disease and other eye conditions. Ophthalmology uses numerous photonic technologies to diagnose and treat eye diseases and vision problems. Today, these techniques are being combined into systems that are revolutionizing the eye surgeon's job.

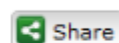
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## FRET Pursues Affordable, Robust, User-Friendly Instruments

Upgrades to this versatile spectroscopy technique would make it easier to use and more widely applicable. Although FRET (Förster resonance energy transfer) is now a mature and established technique, it can always be faster, brighter, more sensitive, more multiplexed and more selective.

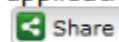
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## Software Enhances Life Sciences Applications, Biomedical Simulations

To advance fundamental research and realize product innovation in biomedical optics, software tools can not only facilitate biomedical optical design, but also instill an iterative process allowing engineers to optimize products for the best application-specific results.

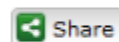
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## Superresolution Imaging Adds another Dimension

Superresolution techniques have already made important contributions in biological research. Now, with the introduction of 3-D capabilities, they have the potential to make an even greater impact.

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## Light-Emission Studies May Improve Bioimaging

New understanding of secondary light emission by plasmonic nanostructures could lead to improvements in medical imaging.

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## Biophotonics Products



### Compact Spectrometer

**Princeton Instruments**  
The new IsoPlane 160 spectrometer brings Princeton Instruments' award-winning IsoPlane SCT-320 performance to a new, smaller platform.

[More info >>](#)



### CCD Cameras

**Raptor Photonics Ltd.**  
Raptor Photonics Ltd.'s CCD cameras, developed using Sony ExView HAD II sensor technology, offer a choice of 2.8-, 6- or 9-MP resolution and are available in both mono and RGB. Pixel size is 4.54 µm.

[More info >>](#)



### X-Ray Detectors

**Teledyne DALSA, Machine Vision OEM Components**  
Teledyne Dalsa has added two new models to its Shad-o-Box x-ray detector line, the 3K and 6K HS.

[More info >>](#)



### LED Light Engine

**Innovations in Optics, Inc.**  
Model 2400B-510, the latest addition to Innovations in Optics Inc.'s line of LumiBright FC fiber-coupled LED light engines, was designed for fiber and lightguide input apertures from 1 to 3 mm in diameter.

[More info >>](#)

## Industry Events

**SPIE Translational Biophotonics 2014** - May 19 - 20, 2014 · Rice University, Houston, TX



Primary topics include diagnostic imaging and detection with applications in cancer diagnostics, cardiovascular imaging, infectious disease, new techniques in microscopy and other emerging technique, analytical systems, MD perspectives, industry perspectives.

[More info >>](#)

**PHOTONICS** MEDIA

THE PULSE OF THE INDUSTRY



## FEATURED VIDEO



### Optimax - Prototype Optics

Optimax is America's largest prototype optics manufacturer. Partnering to develop innovative solutions for tomorrow's optics needs, Optimax remains an influential adopter. With lean principles and a responsive process, Optimax is able to commit to small volume, high quality, and quick delivery. We can make prototype optics in one week!

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For scientific, medical & industrial illumination applications



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### OBLIQUE SINGLE PLANE ILLUMINATION MICROSCOPE (OSPIM)

The oSPIM is two microscopes in one. The lower microscope can be used for conventional fluorescent imaging including WF, confocal, and TIRF. The bottom objective is also used for light sheet (SPIM) illumination, with light sheet imaging from the tilted top objective.

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



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