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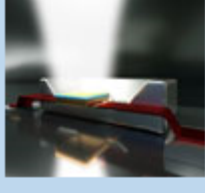


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### Phosphors Optimized for Better, Brighter LEDs

New guidelines for optimizing phosphors — a key component in white LEDs — could lead to brighter and more efficiently produced solid-state lighting. “So far, there has been no complete understanding of what make some phosphors efficient and others not,” said Ram Seshadri, a University of California, Santa Barbara professor. “These guidelines should permit the discovery of new and improved phosphors in a rational rather than trial-and-error manner.”

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### Method to Change Skin-Color Perception is Patented

An approach based on quantum and optical principles for changing the perception of skin tone has garnered a patent for physicists at The City College of New York, including professor Robert R. Alfano.


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### Superconducting Detector Measures Single Photons

A new superconducting detector array that measures the energy of individual photons is seen as a likely successor to CCDs and other semiconductor-based detectors for the visible and near-infrared regions, which are starting to hit performance limits.

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<div style="display: flex; align-items: flex-start;">  <div style="margin-left: 10px;"> <h4>3D PRO Structured Light Laser</h4> <p><b>ProPhotonix Ltd.</b> The 3D PRO Laser from ProPhotonix has been designed specifically for the demanding requirements of machine vision applications.</p> <p><a href="#">More info &gt;&gt;</a></p> </div> </div>	<div style="display: flex; align-items: flex-start;">  <div style="margin-left: 10px;"> <h4>Optical Thin Film Coatings</h4> <p><b>Guernsey Coating Laboratories</b> Optical thin-film coatings from research and development to high volume production. Resistance source thermal deposition, e-beam, ion assisted electron beam and ion beam sputtering.</p> <p><a href="#">More info &gt;&gt;</a></p> </div> </div>
<div style="display: flex; align-items: flex-start;">  <div style="margin-left: 10px;"> <h4>New High-Speed USB 3.0 CCD Camera</h4> <p><b>Lumenera Corp.</b> Now Sampling: Lumenera's compact, high performance Lt365 is designed for high-speed video and image capture featuring a USB 3.0 interface and high-speed global shutter.</p> <p><a href="#">More info &gt;&gt;</a></p> </div> </div>	<div style="display: flex; align-items: flex-start;">  <div style="margin-left: 10px;"> <h4>Nanopositioning Stages and Piezo Mechanisms</h4> <p><b>PI (Physik Instrumente) L.P.</b> PI is the global leader in nanopositioning equipment and piezo mechanisms. Piezo positioners are essential tools for semiconductor test and measurement, photonics imaging, super resolution microscopy, biotechnology and nanotechnology.</p> <p><a href="#">More info &gt;&gt;</a></p> </div> </div>

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### Schmidt Joins Edmund Optics' European Sales Team

Former Schott executive Volker Schmidt has joined the optical components provider's European sales team.


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### THz Lens a New Tool for Biology

A new terahertz lens made of plastic and metal has 10 times the resolution of any current metamaterial lens, making it a powerful tool for biological imaging, its creators say.


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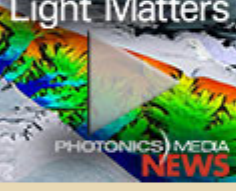


### Can Lasers Cure Alzheimer's Disease?


The malfunctioning protein structures that cause diseases such as Alzheimer's and Parkinson's can be found using just laser light, a team in Sweden and Poland discovered.

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On this edition of the industry's **only weekly newscast**: phosphors are optimized for better and brighter LEDs, lasers might cure brain diseases, and NASA uses lasers to map Greenland's summer ice melt for the first time. Hosted by Photonics Media's Laura Marshall and Melinda Rose.

### Newport Inks \$14M Deal for Optomechanical Subsystems

Newport will collaborate with an unnamed OEM customer to develop optomechanical subsystems for a next-generation semiconductor equipment application.

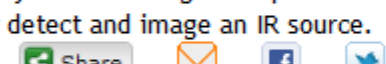
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### IR Remote Sensor Combines Detection, Imaging

A new dual-band remote sensor splits the infrared radiation given off by an object into a long-wave portion for detection and into a mid-wave portion for spectral analysis to simultaneously detect and image an IR source.


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### Medical Implants, Micromachined with FS Laser

Spectra-Physics, Innovative Laser Technologies (ILT) and Palmaz Scientific demonstrated femtosecond laser micromachining of next-generation implantable medical devices.

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### The Perfect Solution for Photoluminescence Studies of Lanthanide-Doped Semiconducting Nanocrystals

Optical Building Blocks Corp.

Photoluminescence (PL) studies of lanthanide-doped semiconducting nanocrystals have become very common in materials science. The increased research interest in such materials is prompted by applications in solar energy conversion devices, lasing media, LED technologies and development of upconversion-based luminescent labels for biomedical analyses and bioimaging. The new Quattro™ bench-top luminescence spectrometer is the ideal tool to fully characterize the PL properties of such materials in the UV-VIS range.

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WEBINAR

## The Past, Present and Future of Freeform Optics

Wednesday, November 13, 2013 - 1:00 PM EST

FREE WEBINAR

Speaker: Jannick P. Rolland  
The Institute of Optics, University of Rochester



Jannick P. Rolland

The emerging, transformative area of freeform optics could allow for a wider range of lens and mirror shapes than strictly spherical, and for more targeted applications. In this one-hour webinar, Professor Jannick Rolland will provide a short historical context to this emergence and discuss the challenges as well as the rapidly emerging knowledge that spans from the mathematics of freeform surfaces to the implementation of freeform optical systems.




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**Meadowlark Optics - Mid-Wave IR Liquid Crystals**  
Meadowlark Optics' founder Tom Baur and Optical Engineer Erika Petrak giving a quick overview of the latest and greatest MWIR products and mentioning some LC filters too.  
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