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Thursday, October 8, 2015



**Light Matters**  
PHOTONICS MEDIA NEWS  
10.07.15

**For all their precision of movement, we can't always count on robots to handle objects with care. But fiber optic sensors could give machines a more human sense of touch.**

FEATURED VIDEO



**WILLIAM MACKENZIE**  
MANAGER OF SALES

**Necsel's Green Laser Technology**

Necsel's green laser technology has enabled a creation of ultra-high brightness laser projectors aimed at large venue and 3D digital cinemas. Winning a PRISM Award in 2014, Necsel Green Laser provides the wavelength range necessary to produce 6 primary 3D with low speckle and twice the brightness of a halogen lamp projector.

**January Start Eyed for National Integrated Photonics Institute**



The American Institute for Manufacturing Integrated Photonics — AIM Photonics for short — already has an 11-member management team in place, and that group is moving rapidly to bring industrial partners into the fold and chart a course for the organization.

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**Precision Biopsy Raises \$33.6M for Prostate Tissue Biopsy System**

The company's ClariCore system is designed to provide accurate, real-time classification of prostate tissue during biopsies. The funds will also accelerate development of the company's focal therapy program, which seeks to provide targeted, localized therapy to the prostate gland by using the same optical tissue-targeting technology found in the ClariCore system.

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**Prior Scientific Changes Leadership**

Dr. Monika Maintz will step down as managing director of Prior Scientific Ltd., while Tom Freda has been named CEO of the Prior Scientific Group.

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## Featured Products

**Custom Optical Filters**

Sydor Optics, Inc.

There are about as many types of glass filters as there are perhaps applications for them. Yet despite all the variety, one thing is clear: Sydor Optics offers exceptional manufacturing capabilities when it comes to custom optical filters.

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**Photon Detection Photodiodes**

Opto-Diode

Opto Diode offers an expanded line of semiconductor radiation sensors for detecting photons and other particles. The devices feature unparalleled quantum efficiency stability and radiation hardness.

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**GONIOMAT for Prism Angle Testing**

Vermont Photonics Technologies

The GONIOMAT M is a semiautomatic goniometer with robust, innovative, and easy to use software. Perfect for quickly and easily measuring the geometry of prisms, polygons, wedges, angle gauges, and more.

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**Tailor Made sCMOS Camera Modules**

PCO-TECH, Inc.

PCO offers board level pco.edge series camera modules for OEM customization. The modules can be equipped with different sCMOS sensors, different interfaces and various features such as special read out modes.

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**UV Catheter Plugs Holes in Hearts**



With help from UV light, a catheter device could provide a way to repair defects in hearts and other organs without surgery. The device has already been used successfully in animal studies.

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**Teledyne Dalsa Secures Contract for Multispectral Satellite Imagery**

The multimillion-dollar development project will return high-resolution images and data for applications in agriculture, crop and forestry management, urban planning, and environment and disaster monitoring. It will support the African Resource Management Constellation forged between Algeria, Nigeria, Kenya and South Africa.


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**Purdue University to Launch Quantum Photonics R&D Center**

Potential applications for technology to be developed at the Purdue Quantum Center include advanced quantum computers and Internet technology, compact and ultraprecise sensors for medical diagnostics and homeland security, and miniature chip-based devices for positioning and navigation instruments.

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**Panasonic Overcomes Blue-Violet Laser Heat Limitation**

An advance in heat-dissipation technology has enabled development of a 4.5-W blue-violet semiconductor laser that could help make lighting and laser-machining systems smaller and more efficient.

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**Cloaking Principle Could Boost Solar Cell Performance**



In a series of simulations, researchers at the Karlsruhe Institute of Technology have demonstrated how cloaks made of metamaterials or freeform surfaces could eliminate shadows cast by energy-harvesting components onto the active surfaces of solar cells.


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**Far-Red Stain Safer for Live-Cell Imaging**

Live-cell imaging can help scientists track key biological processes such as cell division. But most fluorescent stains that light up DNA within cells are toxic, or require blue or UV light that can damage cells. In addition, many DNA stains are not compatible with superresolution microscopy techniques.

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## Industry Events

**The Optics Valley of China International Optoelectronic Exposition and Forum** - Nov. 12-14 · Wuhan, Hubei, China



The main purpose of OVC Expo is to offer a gateway for foreign organizations to develop a Chinese market. Exposition categories include lasers, optical components and measurement instruments; 3D printing; optical communications and fiber optics; and smart city and cloud computing applications.

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