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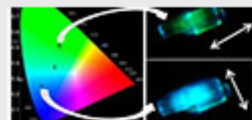
[www.lightmachinery.com](http://www.lightmachinery.com)



# PHOTONICS.com

Thursday, May 8, 2014

## Fluorescent Hybrid Changes Color with Polarization



A fluorescent hybrid material that changes color based on light polarization could enhance a number of applications in nanotechnologies. Creating this material required a host inorganic material of crystalline structure with parallel nanochannels and pore size of less than 1 nm, as well as two dyes of similar size and shape with complementary optical properties that would respond differently when stimulated by light.

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## Photoactive Material Could Ease Dental Woes

A new generation of dental filling materials that harden more quickly under blue light has been developed by a team at the Vienna University of Technology.

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## Bug Sensors Could Slow Infection, Defend Crops

A team from the University of California, Riverside has developed an optical technique to differentiate species of insects with up to 99 percent accuracy.

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## Products on PhotonicsBuyersGuide.com



### Streampix 5 Recording Station

**NorPix Inc.**  
Streampix 5 recording station records from multiple cameras simultaneously at up to 2 Gigabyte per second. Compatible with camera link, HD-SDI, GigE, USB3 cameras.

[More info >>](#)



### Laser Rotary Encoder

**Canon U.S.A., Inc.**  
Canon R-1 series Laser Rotary Encoders offer high performance (high resolution, accuracy, and precision) in a very compact 36mm diameter body.

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### Pellide Technical Information

**National Photocolor Corp.**  
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.

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### Custom Optics

**Janos Technology LLC**  
Janos Technology's custom optics and lens designs are optimized for manufacturing, often utilizing aspheric and diffractive optics.

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## More Articles on Photonics.com

### Fiber Lasers Drive Revenue Growth at IPG Photonics

IPG Photonics Corp. saw a 15.4 percent increase in profits last quarter over the same period last year, powered by demand for high-power fiber lasers.

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### UV Takes Water Treatment Chemical-Free

A new UV process quickly breaks down pollutants in wastewater without help from chemical catalysts.

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### Portable Retinal Scanner Could Aid Transactions

A retinal scanner small enough to fit in a purse incorporates optical components, including an eye-safe infrared laser and MEMS scanning mirror.

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In this edition of the industry's **premier weekly newscast**: An LED device simulates sunlight, doctors monitor nanoparticles in living tissue, and a photomultiplier gauges the ocean's color even at night.

### Brookhaven Scientist Honored For Work on Solar Nanostructures

Brookhaven National Laboratory physicist Charles T. Black has been named "Inventor of the Year" for his work on self-assembling nanostructures for solar energy collection.

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### Raman Spectroscopy Allows More Accurate Cell Analysis

A noninvasive procedure using Raman spectroscopy can analyze living cells more quickly and accurately, which could enable rapid cancer screenings.

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### Thorlabs Expands Global Operation to Canada

Thorlabs has expanded its global operations with a new R&D and manufacturing site in Montreal.

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## WHITE PAPER



### High Volume Optical Component Testing Using an Agilent Cary 7000 Universal Measurement Spectrophotometer (UMS) with Solids Autosampler

Agilent Technologies, Inc.

In this study, we demonstrate increased productivity and reduced cost-per-analysis with automated, unattended multi-angle R/T analysis for multiple samples of uncoated fused silica using an Agilent Cary 7000 UMS fitted with an Agilent Solids Autosampler.

[DOWNLOAD WHITE PAPER >>](#)

## Industry Events

### Optatec 2014 - May 20-22, 2014 - Frankfurt, Germany

This international trade fair for optical technologies, components and systems provides the optical industry with important information, communication and business platforms.

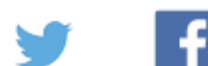


The event will focus fiber optics, photovoltaics, LED solutions and safety systems, as well as production and medical technology. Other topics to be addressed will be energy and material efficiency, conservation of resources and environmental protection.

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## PHOTONICS MEDIA

THE PULSE OF THE INDUSTRY



## FEATURED VIDEO



**Michael Allen**  
Director of Marketing & Product Development



**IDRaman Mini**  
Category of Defense and Security

### Ocean Optics – IDRaman mini

Michael Allen, Director of Marketing and Product Development at Ocean Optics, talks about the Prism nominated IDRaman mini. The IDRaman mini is the smallest, most powerful handheld Raman instrument available today. It is designed to make rapid and accurate measurements that identify, authenticate and verify samples in the field.

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