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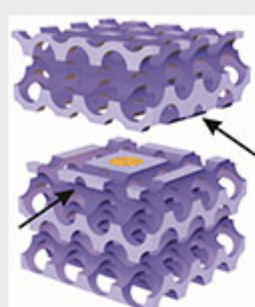
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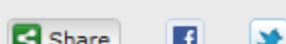
Thursday, October 2, 2014

## Existing Fab Methods Could Yield 'Light Prison'



A "prison for light" designed by Dutch theorists could be created using existing silicon-etching techniques and play a role in optical communications. An inverse woodpile photonic crystal, it has an atomic structure similar to diamond and incorporates arrays of perpendicular pores.

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## Edwards Joins AFL as EMEA President

AFL, a global provider of fiber optic solutions, has named Phil Edwards the new president of its Europe/Middle East/Africa (EMEA) division.

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## SWIR System Images Forest Fire from Orbit

A satellite-mounted shortwave infrared (SWIR) system has been used to image a forest fire through a thick cloud of smoke.

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## Products on PhotonicsBuyersGuide.com



### Multi-Channel Pulsed Laser Driver

**Necsel**  
The Necsel Intelligent Controller is a multi-channel laser driver that contains an integrated CPU and offers CW and pulsed operation modes.

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### Bi-Telecentric Lenses

**Daheng New Epoch Technology**  
Daheng Telecentric lenses are developed by using a pair of base lenses to achieve telecentricity required on object and image plane. The combined telecentric lens system is a focal lens system.

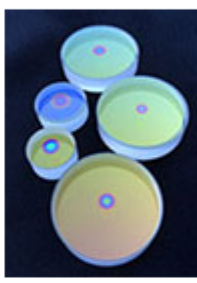
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### Ultra-Thin Glass and Coatings

**Abrisa Technologies**  
Abrisa Technologies now offers transparent conductive ITO, photopic AR and filter coatings on 50 to 100 micron thin, flexible glass to support ultra-thin and curved display needs.

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### Graded Reflectivity Mirrors

**BMV Optical Technologies**  
Graded Reflectivity Mirrors (GRM), also known as Gaussian mirrors, are used as cavity optics within unstable laser resonators. These mirrors are often used with Nd:YAG (1064nm) lasers.

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## More Articles on Photonics.com

### Advances in Blue OLEDs Increase Efficiency and Lifetime



A new configuration extends the efficiency of blue organic light-emitting diodes (OLEDs) from about 5 percent to 20 percent.

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### Plessey Expands with In-House LED Assembly Line

Plessey is expanding its facility here to include a new LED assembly line.

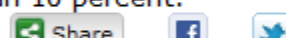
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### Gold Nanoclusters Enhance Solar Power

Gold nanoclusters could improve solar cell performance by more than 10 percent.

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In this edition of the industry's **premier weekly newscast**: Interferometry for diagnostics, advanced blue OLEDs, fiber optic landslide sensors, and our EDU Spotlight.

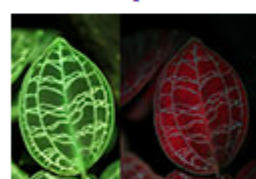
### Scallop Imaging Continues Rapid Growth

Scallop Imaging is continuing its growth with the expansion of its product distribution, partnerships and the addition of new personnel.

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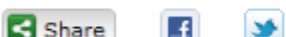


### Ocean Optics Names World Cup Contest Winners



Ocean Optics has named the winners of its World Cup of Applications contest.

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### Fiber Optics Provide Early Warning for Landslides

Fiber optic sensors could warn people of imminent landslides, potentially saving lives and reducing destruction.

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## WHITE PAPER



### Simultaneous Intensity Profiling of Multiple Laser Beams Using the BladeCam-XHR Camera

**DataRay Inc.**  
There are several applications where the parallel processing of multiple beams can significantly decrease the overall time needed for the process. Intensity profile measurements that can characterize each of those beams can lead to improvements in that application. If each beam had to be characterized individually, the process would be very time consuming, especially for large numbers of beams. This white paper describes how the BladeCam-XHR can be used to simultaneously measure the intensity profile measurements for multiple beams by measuring the diffraction pattern from a diffraction grating and the intensity profile from a 3x3 fiber array focused using a 0.5 NA objective.

[DOWNLOAD WHITE PAPER >>](#)

## Industry Events

### SEMIcon Europa 2014 - Oct. 7-9, 2014 · Grenoble, France



SEMIcon (Semiconductor Equipment and Materials International) Europa is an exhibition and conference that focuses on semiconductor technology, as well as MEMS, 3-D integration, nanoelectronics, imaging and more.

The event will feature speakers from countries worldwide, including ABB Semiconductors, Hamamatsu Photonics, and Universal Laser Systems.

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## FEATURED VIDEO



**Jim Johnston**  
Automation Systems Group Manager

**Aerotech** Piezo Nanopositioners

### Aerotech - Q-Series Piezo Nanopositioner

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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## SMART STRUCTURES NDE

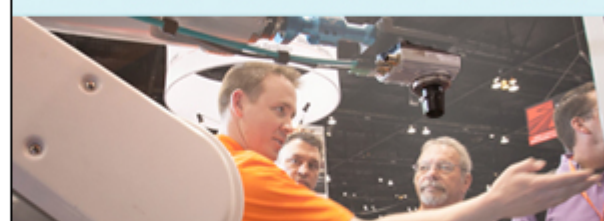
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