

sponsor

LightMachinery
Excellence in Lasers and Optics

A better excimer laser. The IPEX-700.

www.lightmachinery.com



PHOTONICS.com

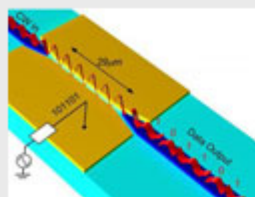
PHOTONICS MEDIA

THE PULSE OF THE INDUSTRY



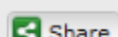
Thursday, February 27, 2014

Fast Phase Modulator Is World's Most Compact



Using electro-optical signals rather than traditional electrical signals could make the exchange of digital information more efficient. Researchers from the Karlsruhe Institute of Technology in Germany have developed an electro-optical device 29 μm long that converts signals at a rate of about 40 Gb/s, making it the world's most compact high-speed phase modulator.

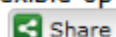
[Read Article >>](#)



New Approach to Creating Flexible Waveguides

A new fabrication technique, developed by Iowa State University researchers, has been found to alleviate challenges typically faced when creating flexible optical waveguides.

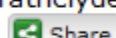
[Read Article >>](#)



Royal Academy Names First Fraunhofer UK Research Chair

The Royal Academy of Engineering has appointed Alan Kemp of the Institute of Photonics the first Fraunhofer UK research chair at the University of Strathclyde.

[Read Article >>](#)



Products on PhotonicsBuyersGuide.com



Necsel Blue Laser

Necsel

Necsel holds key patented technology to be the premium worldwide supplier of high-power red, green and blue lasers with price points that enable the targeted display and lighting markets.

[More info >>](#)



Plastic Sheet Lenses and Molds

RHK Japan

NTKJ's product line includes linear prisms, Fresnel, linear Fresnel, lenticular, fly's eye and customized lenses and is capable of manufacturing Fresnel lenses up to 5000mm in diameter and 2000mm x 2000mm.

[More info >>](#)



Gobi-640 GigE Camera

Xenics

Xenics' Gobi-640 uncooled thermal camera is ideal for use in medical imaging, non-destructive testing, temperature measurement, quality control and assurance, real-time process control and monitoring.

[More info >>](#)



OPAL IR Systems

Image Science Ltd.

The OPAL IR system is a very fast and accurate system for measuring MTF and other optical parameters in the infrared spectral region. A single-element MCT detector is used to scan the image of slit target at a constant speed.

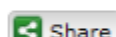
[More info >>](#)

More Articles on Photonics.com

PHOQUS to Focus on Cells and Disease

The European Commission (EU) has awarded the University of Dundee in Scotland nearly €4 million in funding for investigations on the relationships between cellular processes and disease.

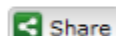
[Read Article >>](#)



Photonics Could Replace Electronics for Computing

As part of DARPA's Photonically Optimized Embedded Microprocessors project, researchers from the University of Colorado-Boulder, MIT and the University of California-Berkeley are working to demonstrate that low-power photonic devices can be fabricated using standard chip-making processes.

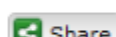
[Read Article >>](#)



Optical Circuit Uses Stretchable Interconnections

A team of Belgian researchers is developing the first optical circuit to use stretchable, bendable interconnections.

[Read Article >>](#)

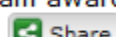


In this edition of the industry's **premier weekly newscast**: An optical circuit uses stretchable interconnections, a graphene sandwich improves biomolecule imaging, and we introduce the Ocean Optics 2014 Young Investigator Award recipient.

Goetz Instrument Support Awards Announced

Innovative research projects based on spectroscopy and remote sensing have been recognized by the Alexander Goetz Instrument Support Program awards for 2014.

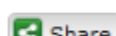
[Read Article >>](#)



THz Laser Chip Sets Power Records

A newly developed terahertz laser chip, engineered by a team at the University of Leeds in England is setting records as the most powerful in the world.

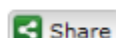
[Read Article >>](#)



Superbright X-Ray Free-Electron Lasers Find Missing Proteins

The Department of Energy's Pacific Northwest National Laboratory and Lawrence Livermore National Laboratory have begun using exceptionally bright and fast x-rays to capture images that rivals those taken with conventional methods.

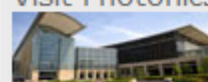
[Read Article >>](#)



Industry Events

PITTCON 2014 - March 2-6, 2014 · Chicago, IL

Visit Photonics Media at Booth 3844



More than 2,000 technical sessions will be offered at this year's PITTCON. The 2014 comprehensive technical program will include areas of analytical chemistry, applied spectroscopy, life sciences, bioanalysis and food sciences.

Related topics such as instrumental analysis-chromatography, molecular and atomic spectroscopy, portable instruments, electrochemistry, mass spectrometry and lab-on-chip technology will also be covered, in addition to sessions relating to nanotechnology, shale energy, genomics/proteomics and metabolomics/metabonomics.

[More info >>](#)

FEATURED VIDEO



Sydor Optics - Our World is Flat

Manufacturing precision, flat-surfaced, parallel and wedged optics and specializing in double-sided grinding and polishing for over 40 years. Products include: beamsplitters, color filters, debris shields, glass wafers, grating substrates, light pipes, light-weighted substrates, mirrors, optical flats, wedges, and windows in addition to laser optics and laser machining.

sponsor

SPIE. SMART STRUCTURES NDE

SMART STRUCTURES NDE

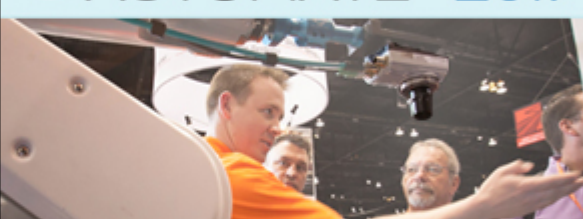
Applied technologies of advanced materials, smart sensor networks, non-destructive evaluation, and structural health monitoring.

REGISTER TODAY

Conferences & Course: 25-29 March 2017
Portland Marriott Downtown Waterfront Hotel
Portland, Oregon, USA

sponsor

APRIL 3-6, 2017 | CHICAGO
AUTOMATE • 2017



Connect with leading suppliers and experts in vision!

REGISTER TODAY!

PHOTONICS buyers' guide

Looking for **Optics and Optical Components** products? Search the Photonics Buyers' Guide or Browse these product categories:

- [Absorption Filters](#)
- [Diffraction Gratings](#)
- [Infrared Optics](#)
- [Laser Lenses](#)
- [Polarizing Coatings](#)
- [Surface Quality](#)
- [Measuring Equipment](#)

sponsor

Questions: pr@photonics.com

Unsubscribe: <http://www.photonics.com/Newsletter/EmailUnsubscribe.aspx>

[Subscribe](#) | [Manage Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)