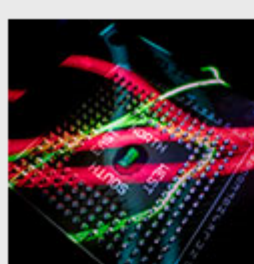




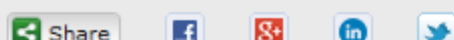
Thursday, December 24, 2015

Microprocessor Integrates Silicon Photonics

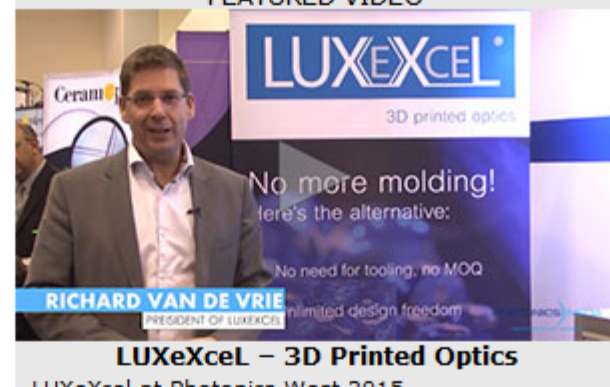


Made from silicon using conventional fabrication methods, a microprocessor that integrates multiple photonic components is said to be the first to communicate directly with other devices using light.

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FEATURED VIDEO



LUXeXcel – 3D Printed Optics
LUXeXcel at Photonics West 2015

Carbon Sciences Funds UCSB Research into Graphene Optical Modulators

The company believes that new materials such as graphene must be developed to increase optical data speeds for high-resolution video on demand, high-fidelity music streaming, high-volume e-commerce and other cloud-based services.

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Dutch Nanophotonics Foundry Launches with University Partner

The foundry will produce nanoscale-feature photonics products with advanced light-emitting materials such as the III-V semiconductor materials GaAs, AlGaAs, InP and InGaAs. It will also leverage its relationship with Eindhoven University to access 800 m² of cleanroom facilities and other services for the first phase of development.

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Featured Products



Taper Manufacturing Station

3SAE Technologies
The production-ready Taper Manufacturing Station (TMS) with optional cleaving package is designed for use in the manufacturing of optical fiber tapers, bundles and couplers.

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MTF Measurement Systems

Image Science Ltd.
Image Science provides custom MTF systems for the Visible, SWIR, MWIR, LWIR and UV wavebands. Our systems combine high accuracy with fast measurement speed.

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Photonic Detectors & Integrated Modules

Opto Diode Corporation
Opto Diode offers a new expanded line of silicon photodiodes and IR detectors for applications requiring a higher level of integration.

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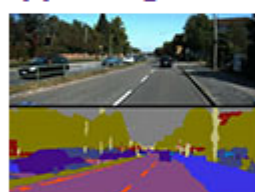
Optical Prisms

A.R.W. Optical Corporation
ARW Optical manufactures custom, standard and OEM optical prisms for the UV to IR region. Provides rapid prototyping through volume production for all.

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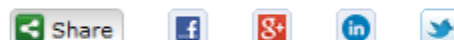
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App Categorizes Road Scenes in Real Time



SegNet can take an image of a street it hasn't seen before and classify it, sorting objects into 12 different categories — such as roads, signs, buildings, pedestrians and cyclists. It can deal with light, shadow and nighttime environments, and labels more than 90 percent of pixels correctly.

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Microscopic Laser Printing Method Could Hide Data, Simplify Production

A printing method using nanostructured surfaces and laser pulses has yielded a microscopic image with a resolution of 127,000 dots per inch. The reproduction the "Mona Lisa," created by researchers from the Technical University of Denmark (DTU), is smaller than one pixel on an iPhone Retina display.

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VECSEL Eyed for Terahertz Sensing Applications

The first vertical-external-cavity surface-emitting laser (VECSEL) capable of operating in the terahertz range, the device achieves output power >5 mW. For amplification it uses a metasurface mirror composed of subwavelength antenna-coupled quantum-cascade subcavities.

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Metal Labels Produce 3D Images of Neurons

Spectral confocal microscopy has been used to visualize neurons with the help of silver- and gold-based cell labeling. The development enables imaging of archived tissue samples, which could aid long-term clinical research efforts and diagnostics for cancer and neurological disorders.

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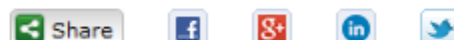


2016 Prism Awards Finalists Announced



The awards are sponsored by Photonics Media and SPIE, the international society for optics and photonics. Winners will be announced Feb. 17 during SPIE Photonics West in San Francisco.

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Application Note: OCT System Captures 'Internal' Fingerprints

Full-field optical coherence tomography can use a spatially and temporally incoherent light source and is based on a 2D detector. The technique works by analyzing the interference patterns created when light coming from a predetermined depth of a biological sample is recombined with a reference beam.

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Industry Events



A3 Business Forum - Feb. 3-5 · Orlando, Fla.
An annual networking event for professionals in the fields of robotics, vision and imaging, motors, and motion control.
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