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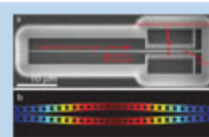
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Squeezed Light Created On-Chip

A microchip-based way to create squeezed light could assist a range of precision measurements and provide a viable route toward real-world on-chip sensor applications and technology. "Our experiment brings together, in a tiny microchip package, many aspects of work that has been done in quantum optics and precision measurement over the last 40 years," said Caltech applied physics professor Oskar Painter.

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Mechanical Pressure Converted to Light Signals

A new sensor device created at Georgia Tech uses thousands of nanometer-scale wires to convert mechanical pressure into light signals that can be captured and processed optically.

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Flir Acquires DigitalOptics' Micro-Optics Assets

The sensor maker acquired DigitalOptics Corp.'s Charlotte, N.C.-based micro-optics business for \$14.9 million, the company announced this week.

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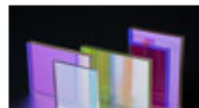
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MLR-10K Laser Rangefinder

FLIR Systems, Inc.
FLIR's MLR-10K laser rangefinder is the smallest and lightest solid-state laser 10,000 meter class laser rangefinder available.

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Next Generation Optical Filters

Alluxa
Alluxa, an emerging leader in next generation optical filters is pleased to announce ultra-flat dichroic and polychroic filters with very high levels of in band transmission.

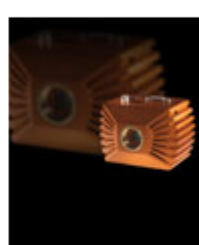
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Illuminance Spectrophotometer

Allied Scientific Pro
Our spectrophotometer has a cosine corrector and is calibrated to measure illuminance and spectral response of light sources. It can be used as a quick, handheld device to verify center, dominant, and centroid wavelengths, intensity, and color of LED and other light sources.

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FALCON EMCCD Camera

Raptor Photonics Ltd.
The digital FALCON EMCCD camera, model FA285-CL, combines high sensitivity, speed and high resolution. It uses a peltier cooled Texas Instruments' 1MegaPixel Frame Transfer Impactron device which provides QE up to 65%. It uses a 16 bit A/D converter and offers a standard CameraLink output.

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Nanodiamonds Optically Levitated

A technique using two lasers — one to trap nanodiamonds in space and the other to cause them to emit light at given frequencies — could prove invaluable in high-sensitivity nanoscale force sensing.

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Michigan Powers Up Photonics Program

Michigan's first photonics and laser technology associate degree program will launch Sept. 30 at Baker College of Flint under a \$200,000 grant from the National Science Foundation.

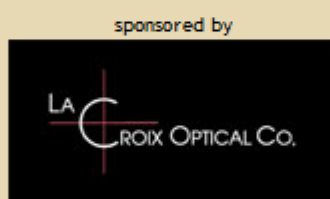
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Pflueger to Give Keynote at LME 2013

Laser industry expert Silke Pflueger will be a keynote speaker at the Laser Institute of America's third annual Lasers for Manufacturing Event (LME 2013), which will be held Sept. 11-12 at the Schaumburg Convention Center.

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On this edition of the industry's **only weekly newscast**: squeezed light is created on silicon, a laser inserts DNA into cells with a light touch, and invisible air turbulence is detected with lasers. Hosted by Photonics Media's Laura Marshall and Melinda Rose.

Samsung to Acquire Novald

Cheil Industries, a Samsung affiliate that supplies electronic materials to display makers, and Samsung Electronics will co-own Germany-based OLED maker Novald AG under a deal announced last week.

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Detecting Aircraft Turbulence with Laser Radar

A laser-based method of detecting unsteady airflow could provide a solution to sudden airplane turbulence.

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Fujimoto Receives IEEE Photonics Award

The Institute of Electrical and Electronics Engineers (IEEE) awarded MIT's James Fujimoto the 2014 IEEE Photonics Award for his pioneering work in the development of OCT for medical diagnostics.

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Industry Events

Lasers for Manufacturing Event (LME 2013) - September 11-12, 2013 · Schaumburg, Ill.

Visit Photonics Media at Booth 1026



The mission of the Laser Institute of America's (LIA) Lasers for Manufacturing Event (LME®) 2013 is to provide a one-stop event for companies interested in integrating laser technology into their production. LME is the place to view the most up-to-date laser equipment and find information about automation equipment, laser choices, beam delivery, safety considerations, applications development. Attendees also have the opportunity to meet exhibitors that supply these products and services.

Keynote sessions, open to all attendees, will cover: Ultra-high Brightness Direct Diodes, The Range of Laser Processing Applications in Industry, The Market for Industrial Lasers and Applications and Ultrafast Lasers - Are we There yet? Free educational courses include Main Laser Types Used for Manufacturing - Key Properties and Key Applications, Laser Safety for Industrial Laser Systems, Design Considerations for Industrial Laser Systems and Economic Justification for Laser Applications.

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IEEE Photonics Conference 2013 - September 8 - 12, 2013 · Seattle, WA



The unveiling of breakthroughs in photonics will top the agenda when the world's leading technologists in the field convene in the Seattle area in September for the annual IEEE Photonics Conference (IPC-2013), formerly called the IEEE LEOS Annual Meeting.

Some 600 scientists, engineers and technical managers will gather from September 8-12 at the Hyatt Regency Bellevue Hotel for an IPC-2013 program of invited talks, paper presentations, panel sessions, special symposia, networking opportunities, and a product showcase.

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MLR10K Laser Rangefinder

Leader in SWAP Range Finders



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