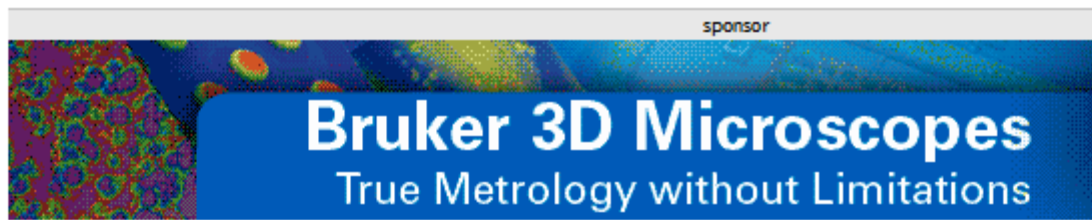


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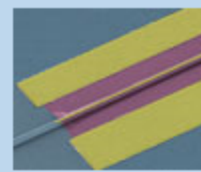


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### Graphene on Chip Closing the Gap with Germanium

Graphene-based photodetectors can efficiently convert infrared light into electrical signals. The work by three independent groups "makes it very likely that graphene will soon replace germanium and compound semiconductors in high-performance light detectors," said editors at *Nature Photonics*, which published all three papers.

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### Continuum - Vista Dye Laser

The Vista dye laser offers the highest resolution (<0.03 cm<sup>-1</sup>) with the highest conversion efficiency (>30%) and the finest precision scanning, all combined to deliver optimal performance with every scan. Continuum (408) 727-3240 [www.continuumlasers.com](http://www.continuumlasers.com)

### Tunable Polymer Could Make Truly White OLED

Doping an organic polymer with platinum atoms makes the light it emits tunable, which could lead to the realization of cheaper, more efficient and truly white OLEDs, says a physicist at the University of Utah.


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### Rochester Cluster Presents Business, Education, Achievement Awards

The Rochester Regional Photonics Cluster presented awards for entrepreneurship, leadership and education as well as a special lifetime achievement award at its annual meeting Sept. 5 at the Rochester Museum & Science Center.

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### Telecentric Lenses for Machine Vision

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CDHC designs and manufactures GCO series telecentric lenses, with its good performance, superior image quality, low distortion and competitive price, fully meet the requirements of machine vision systems in industrial measurement application.

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### Haptic Optical Tweezers Let Us 'Feel' Microstructures

A new technology called haptic optical tweezers allows microscope users to manipulate samples by sight and touch. The tweezers "will become an invaluable tool for force feedback micromanipulation of biological samples and nano- and microassembly parts," said Dr. Cécile Pacoret of Université Pierre et Marie Curie, a co-author of the study.

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### Oclaro Sells Zurich Laser Diode Biz to II-VI for \$115M


The optical communications provider sold its Zurich-based subsidiary and laser diode business to II-VI Inc. for \$115 million as part of its restructuring plan. Oclaro also received \$5 million for an option to sell its amplifier and micro-optics business to II-VI for \$88 million in cash.

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### Laser Spectroscopy Overcomes Measurement Challenge

A "remarkably simple" laser-based approach developed at Drexel University overcomes the challenge of measuring key aspects of electron behavior while designing ever-smaller components - which could allow cellphones, laptops and tablets to get increasingly thinner and more energy efficient.

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On this edition of the industry's **only weekly newscast**: A European group is working to take the "fry" out of skyscrapers, sculpted light captures brain activity, and a bioimaging laser branches out to bomb detection. Hosted by Photonics Media's Laura Marshall and Melinda Rose.

### Taking the 'Fry' Out of the Skyscraper

A pan-European consortium aims to give city planners key environmental analytic tools, something that could prevent the building of another Jaguar-melting, egg-frying, cornea-searing "fryscraper" like the 37-story tower now under construction in downtown London.

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### TeraXion, Canadian Fab Center Join Forces


The optical components maker and the National Research Council of Canada are partnering to develop and fabricate TeraXion's new modular products.

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### Gun Laser Presented at FEL Conference

A new concept for the SwissFEL laser based on a hybrid ytterbium oscillator and amplifier was presented at the Free Electron Laser Conference in late August by a team from Paul Scherrer Institute and France-based ultrafast laser maker Amplitude Systèmes.

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### Dynamic - Dynamic Range

#### PCO-TECH Inc.

The dynamic or dynamic range of a CCD-camera system is a widely used term to characterize the ability of a camera system to measure or image light/dark differences. In the field of photography, the measure or image light/dark to the contrast range. However, each manufacturer defines dynamic range differently. A distinction must be made, between the "dynamic range of a CCD image sensor", "dynamic range of an analog-to-digital-conversion" and "usable dynamic range".

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### The Light-Controlled Factory Project

Dr. Jody Muelaner  
University of Bath

The light-controlled factory project will address issues experienced in large-scale, high-value manufacturing. Dr. Muelaner will outline the project, which received funding earlier this year to explore the next generation of factories - specifically, the use of lasers and optical methods for measurement and the control of machines.

### Machine Vision: Today's Trends & Tomorrow's Challenges to Fulfill the Technical Demands

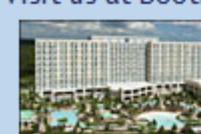
Gregory Hollows  
Director of Machine Vision Solutions at Edmund Optics

Gregory Hollows is responsible for everything pertaining to vision and imaging for EO, including the business plan, strategy, and product marketing and sales. He currently is the chair of the AIA BOD and the AIA education committee which represents over 300 global imaging companies.

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Special Symposia topics include: Advanced Distributed Optical Fibre Sensor Systems for Security and Safety Applications, Functional Imaging of Visual Systems, the 100th Anniversary of the Bohr Atom, Photonics for Quantum Information Processing, and Laser Science Symposium on Undergraduate Research.

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