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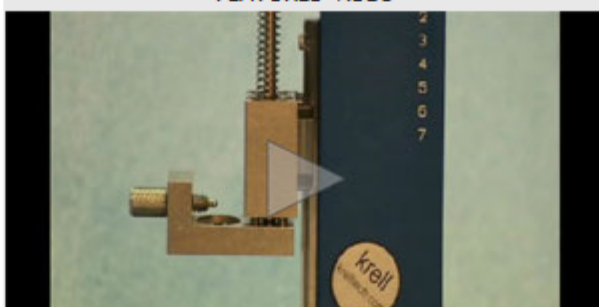
Ti:Sapphire Laser Drives Accelerator on Chip

An advance that uses commercial lasers and low-cost, mass-production techniques could set the stage for a new generation of "tabletop" particle accelerators that are less expensive for use in science and medicine. "We still have a number of challenges before this technology becomes practical for real-world use, but, eventually, it would substantially reduce the size and cost of future high-energy particle colliders for exploring the world of fundamental particles and forces," said Joel England, the SLAC physicist who led the experiments. "It could also help enable compact accelerators and x-ray devices for security scanning, medical therapy and imaging, and research in biology and materials science."

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FEATURED VIDEO



Krell Technologies - REV Fiber Optic Micro Polisher

Rev is a highly cost-effective system that provides the ability to polish optical connectors and bare fibers with Telcordia compliance. Interchangeable workholders support all industry standard connectors and specialty components. Rev is ideal for laboratory and R&D applications, as well as field termination and cable assembly repair.

Excelitas Technologies Acquiring Qoptiq

The optoelectronics provider is acquiring the privately held photonics products maker from Arle Capital Partners for an undisclosed price.

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Well-rounded Molecules Make Better Light Emitters

The more well-rounded the organic molecule the better when it comes to maximizing light emission, an international team of physicists and chemists found.

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Room Temperature HgCdTe IR Detectors

Infrared Associates

Infrared Associates, Inc. can now provide Room Temperature HgCdTe detectors covering the range of wavelengths from 1 um to 6 um. These detectors have both high sensitivity and ease of operation.

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Optical Coatings

Perkins Precision Developments
IBS Thin-Film Coatings: AR, HR, Dichroic and Custom • Standard coatings: Anti-reflection, high reflection, output couplers, edge filters, bandpass filters, beam splitters.

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Introducing the World's First SmartPhone Spectrometer Light Meter. The removable piece let's you take light and illuminance measurements with iPhone, iPod.

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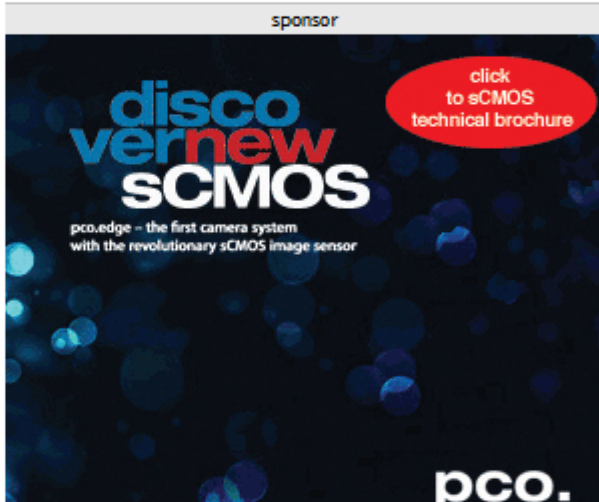


Spectral Isolation Optical Components

Optometrics Corporation
Optometrics is a high volume OEM and standard catalog component manufacturer of spectral isolation optical components and sub-assemblies. An ISO 9001:2008 certified Lean manufacturer delivering cost effective products and services worldwide.

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Gigaphoton, Mitsubishi Develop CO₂ Drive Laser

The lithography light source manufacturer developed a high-power CO₂ drive laser for extreme-ultraviolet light sources with Mitsubishi Electric Corp.

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More Funding Brings Daylight Solutions' Imager Closer to Market

Additional funding from the National Science Foundation will accelerate the transition of its mid-infrared hyperspectral imaging platform into commercial markets, the company said.

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IRradiance Glass Gets Boost from Million-Dollar Investor

A recent infusion of \$1 million from a private investor will allow the company to expand its manufacturing facility at the University of Central Florida.

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On this edition of the industry's **only weekly newscast**: lasers help shrink a particle accelerator, Laura reports on the latest LED news from the Radtech conference, and we explore a new miniature camera system that achieves the optical performance of a full-size wide-angle lens. Hosted by Photonics Media's Melinda Rose and Laura Marshall.

Malvern Instruments Buys NanoSight

The analytical instruments maker said it extends its products into the nanoscale with the Sept. 27 acquisition of the nanoparticle characterization company.

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THz Sensor to Detect Viruses Before Outbreaks

A new project aims to develop a sensor that uses gigahertz-to-terahertz radiation to detect viruses captured in nanofluidic chips, with the goal of using the system quickly in places where large, highly mobile groups congregate, such as airports.

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University of Calgary Launches Institute for Quantum Science and Technology

The institute will focus on themes of quantum optics, quantum information, molecular modeling and nanotechnology. The 100-member IQST is one of only three such institutes in Canada, joining facilities at the universities of Waterloo and Toronto.

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Industry Events

Frontiers in Optics 2013/Laser Science XXIX - Oct. 6-10, 2013 - Orlando, Fla.

Visit us at Booth 315



FiO 2013 — the 97th OSA Annual Meeting — and LS XXIX unite the Optical Society and American Physical Society (APS) communities for five days of quality, cutting-edge presentations, fascinating invited speakers and a variety of special events. The LS XXIX meeting serves as the 29th annual Meeting of the American Physical Society (APS) of its Division of Laser Science (DLS) and provides an important forum for presenting the latest work on laser applications and development, spanning a broad range of topics in physics, biology and chemistry.

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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PHOTONICS buyers' guide

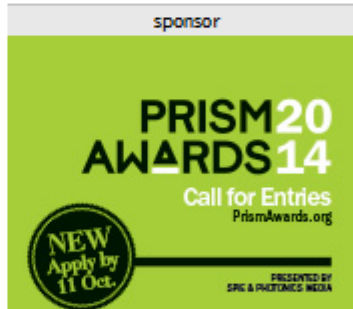
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