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Gen2 Ultrafast

Time-of-Flight

Ion Detector

FEATURED VIDEO

Photonis USA - Ultrafast Time-of-Flight Ion Detector Photonis USA Vice President and General Manager Bruce Laprade describes the company's Gen2 Ultrafast time-of-flight

ion detector, a 2010 Prism Awards finalist in the Life Sciences

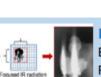
than a factor of two with respect to previous state-of-the-art

sponsor

and Biophotonics category. Fundamental changes to the detector's anode design reduce measured pulse widths by more







IR Digital Holography Lets Firefighters 'See' Through Flames

By employing a specialized lens-free technique, researchers at the Consiglio Nazionale delle Ricerche (CNR) in Rome developed a system that can cope with the flood of radiation from an environment filled with intense flames and smoke. "IR cameras cannot 'see' objects or humans behind flames because of the need for a zoom lens that concentrates the rays on the sensor to form the image," said Pietro Ferraro of CNR's Istituto Nazionale di Ottica. By eliminating the need for the zoom lens, the new technique avoids this drawback. "Perhaps most importantly, we demonstrated for the first time that a holographic recording of a live person can be achieved even while the body is moving."

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Landmark Ireland Research Investment Includes Photonics The largest-ever state/industry co-funded scientific research investment in Ireland — €300 million, or about \$393

Virtual Photons Become Real in a Vacuum

million - includes millions to establish a large-scale research center devoted to advancing photonics and biomedical science.

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Virtual particles can be transformed into real photons that can be experimentally observed, researchers at Aalto University and the VTT Technical Research Center of Finland discovered by changing the position of a mirror inside a vacuum.

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Techcomp Acquires Majority Stake in Edinburgh Instruments

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The European subsidiary of Hong Kong-based analytical instruments firm Techcomp has acquired 66 percent of

Laser Spectroscopy Narrows Search for Origins of Superconductivity

Master Bond Inc.

Graphene Highly Efficient at Converting Light to Electricity

Osram Coordinates High-Brilliance Infrared Laser Project

Show to Cover New Apps for Ultrashort-Pulse Lasers

World of Photonics Congress at the show.

spectrometer maker Edinburgh Instruments for \$2.9 million in cash, the company announced this week.

As Sequester Nears, OSA Organizes 'Week of Action' OSA worked with the American Institute of Physics to create a community letter to members of Congress on the

spending cuts and the potential impact of the sequester on federal funding for scientific research and development and will work in cooperation with scientific groups, encouraging them to alert their memberships of the pending deadline and enlist their grassroots support.

The mechanism underlying high-temperature superconductivity has remained one of the most important and

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building block for any device that relies on such conversions, a new international study found.

Laser and the Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy.

tantalizing puzzles in physics, but new work that measures fleeting electron waves could help solve the mystery

and pave the way for rapid technological advances, say researchers at MIT and Brookhaven National Laboratory.

Graphene is even more efficient at converting light to electricity than was previously known, making it an ideal

The three-year IMOTHEB (Integrated Micro-Optical and microTHhermal Elements for diode lasers of high

the application panel "Latest Applications for Short-Pulse Laser Systems." The continued development of

ultrashort-pulse lasers is also an important aspect of the exhibition "Lasers and Laser Systems for Production Engineering" and a topic of discussion at the "Lasers in Manufacturing 2013" conference, which is part of the

PROMOTION

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Techniques in Biophotonic Imaging Thursday, March 21, 2013 - 1 p.m. EDT/10 a.m. PDT/5 p.m. GMT/UTC

Photonics Media will host:

Dr. Kimani C. Toussaint Jr. Quantitative Imaging of Collagen Fibers Using Second-Harmonic Generation University of Illinois, Photonics Research of Bio/Nano Environments (PROBE) lab group

Dr. Melissa Skala Photothermal Optical Coherence Tomography of Nanoparticle Contrast Agents

Vanderbilt University School of Engineering, Optical Imaging Laboratory

Dr. Ofer Levi

Multimodal Optical Neural Imaging with VCSEL Light Sources University of Toronto, Institute of Biomaterials and Biomedical Engineering

is supported by the German Federal Ministry for Education and Research. Project partners include Dilas Diode

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Brilliance) project to improve high-brilliance infrared laser systems performance and to reduce production costs

At May's Laser World of Photonics 2013 in Munich, Christof Siebert of Trumpf Laser- und Systemtechnik will chair sensing 62 Scientific conferences on optics, imaging, and sensing Register Today www.spie.org/dss1 Conferences & Courses 29 April to 3 May 2013 Baltimore Convention Center Baltimore, Maryland, USA Exhibition 30 April to 2 May 2013

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nanocrystals make color LEDs, a holographic imager could have biomedical applications, and a new art installation puts a unique spin on an everyday object. Hosted by Photonics Media's Laura Marshall and Melinda Rose. **Industry Events**

In this edition of the industry's premier weekly newscast: A

flexible new image sensor is completely transparent, silicon

OFC/NFOEC 2013 - March 17 - 21, 2013 · Anaheim, CA The Optical Fiber Communication Conference and Exposition and the National Fiber Optic



and business of optical communications and networking. It features more than 110 short courses, over 550 exhibitors and 750 technical papers covering technologies and applications in cloud and data center networking, space division multiplexing, 1 TB and beyond optical networking, flexible grid networks, convergence of optical and wireless networks, 100 G/400 G network design and optimization, and more. MORE INFO >> PITTCON 2013 - March 17 - 21, 2013 · Philadelphia, PA

Engineers Conference (OFC/NFOEC) is the premier international event for both the science

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features the latest technology and instrumentation from over 900 exhibitors and more than 2000 technical presentations that cover topics such as life sciences, drug discovery, nanotechnology, biomedical, environmental, homeland security, food science, forensics, agriculture and biomass. The event will also include a keynote lecture by R. Michael Barnett of Lawrence Berkeley National Laboratory, short courses in over 50 topics, poster and networking sessions, and the Waters Symposium, which will recognize the commercialization of chemical imaging. Nobel Laureate Sir Harold Kroto will be the Wallace H. Coulter Plenary Lecture speaker for Pittcon 2013. MORE INFO >>

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