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Electronic Chips Heal After Laser Blasts

Catastrophic failure in the "brains" of smartphones and other electronics could be a thing of the past, now that engineers at California Institute of Technology have demonstrated an integrated circuit that heals itself, even after half of its components are vaporized using a high-power laser. "It felt like we were witnessing the next step in the evolution of integrated circuits," said Caltech's Ali Hajimiri of the first time the chip developed a work-around in less than a second. "We had literally just blasted half the amplifier and vaporized many of its components, such as transistors, and it was able to recover to nearly its ideal performance."

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Organic Phototransistors Made with Nanowires

High-performance organic phototransistors based on single-crystalline n-channel organic nanowires could miniaturize electronic and optoelectronic devices, yielding higher light sensitivity than their bulk counterparts, say researchers in California and South Korea.

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Southern Photonics Rebrands as Coherent Solutions

Prompted by the company's evolution over the past two years, the photonics equipment manufacturer changed its name this month.

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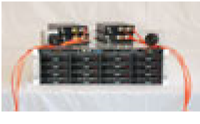

Streampix 5 Station 625/1250
NorPix, Inc.

IR Beam Expander
Altechna Co. Ltd.

IsoPlane - Spectroscopy Without Compromises
Princeton Instruments

Precision Glass and Sapphire Optics
Japan Cell Co., Ltd.

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Flexible CIGS Solar Cell Delivers 13% Efficiency

The CIGS solar cell, made using thin, flexible stainless steel and titanium substrates, was developed and produced by the US Photovoltaic Manufacturing Consortium at the College of Nanoscale Science and Engineering's Solar Energy Development Center in Halfmoon, N.Y., and demonstrated by Magnolia Solar Inc.

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Trumpf Laser Opens New Development Center

Trumpf Laser opened the 6200-sq-m site, which houses both office space and laboratories, to consolidate all development activity under a single roof.

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Breast Cancer Laser Technique Faces First Human Trials

The UK-developed method, known as spatially offset Raman spectroscopy, is currently used in security scanners to detect liquid explosives, but could also ID cancerous breast tissue.

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Light Matters PHOTONICS MEDIA NEWS

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In this edition of the industry's premier weekly newscast: Spectroscopy could lead to better optical devices, a laser test for breast cancer readies for human trials, an IR camera detects the main cause of acid rain, the UK backs funding photonics for health care, and the winner of a student prize as a lot to GRIN about. Hosted by Photonics Media's Melinda Rose and Laura Marshall.

Inrad Optics Trims Workforce by 9%

The optical component and crystalline device manufacturer trimmed its workforce by about nine percent by cutting eight employees at production facilities in Northvale, N.J., and Sarasota, Fla.

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OSA Kicks Off 'Enabled by Optics' Campaign

The campaign emphasizes the extraordinary role optics has played in furthering innovation and its critical impact on everyday life. The first phase of the launch includes a contest that will promote optics as an enabling technology by featuring its lesser-known role in products widely used by the general public.

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Material Converts Ultrasound Waves into Optical Signals

Ultrasound images have never looked sharper, thanks to a new metamaterial that converts ultrasound waves into optical signals, providing high-resolution images for biomedical applications.

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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

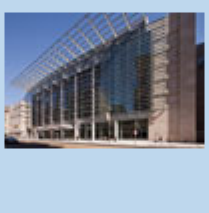
Industry Events

OFC/NFOEC 2013 - March 17 - 21, 2013 · Anaheim, CA

The Optical Fiber Communication Conference and Exposition and the National Fiber Optic Engineers Conference (OFC/NFOEC) is the premier international event for both the science 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
Visit us at Booth 2719



Pittcon is the world's largest annual conference and exposition for laboratory science. It 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.

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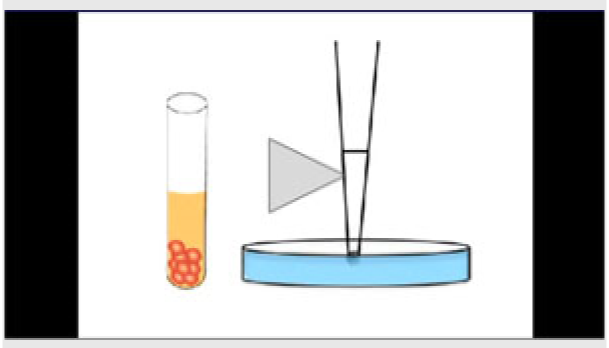
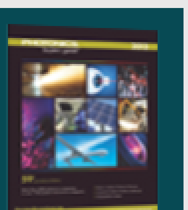
FEATURED VIDEO



Applied Scientific Instrumentation - MPPI-3 Microinjector

Microinjection of Zebra fish larvae with ASI's MPPI-3 microinjector. This video outlines the steps required to inject fluorescently labeled probes into Zebra fish larvae. The techniques used are common to microinjection of other samples, and allow noninvasive monitoring of pathogens within the environment of a complex host, as well, as cellular development. Applied Scientific Instrumentation (ASI) www.asiimaging.com

PHOTONICS buyers' guide



Looking for Lasers and Laser Systems products? Search the Photonics Buyers' Guide or Browse these product categories:

- Argon-Ion Lasers
- Distributed Feedback Lasers
- Laser Cavities
- Laser Optics
- Noncontact Optical Inspection Systems
- Thermoelectric Cooling Systems

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