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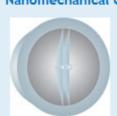
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**LIGHT** EXCHANGE



## Nanomechanical Optical Fibers Go Beyond Light Transmission



Under pressure, a new kind of optical fiber goes beyond simple light transmission to also perform the functions of signal switches, routers and buffers. "Nanomechanical optical fibers do not just transmit light like previous optical fibers," said Wei H. Loh, deputy director of the EPSRC Centre for Innovative Manufacturing in Photonics at the University of Southampton, where the fiber was developed. "Their internal core structure is designed to be dynamic and capable of precise mechanical motion. This mechanical motion, created by applying a tiny bit of pressure, can harness some of the fundamental properties of light to give the fiber new functions and

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MEDIA

#### **Light Triggers Biochemical Reactions**

Biochemical reactions can now be remotely triggered on demand, thanks to a new technique developed at Rice University that turns light into heat at the point of need on the nanoscale.

Groups of photons prepared in certain quantum states can noninvasively probe ultrasensitive objects such as individual

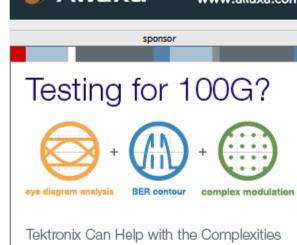
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PHOTONICS buyers' guide

#### Oxford Instruments Acquires Asylum Research for Up to \$80M

The deal, worth as much as \$80 million, to buy the microscopy maker in California will help the UK scientific instrumentation provider strengthen its presence in the nanotechnology market.

Delicate Systems Observed with Quantum Physics

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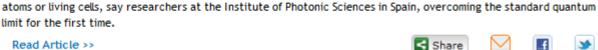
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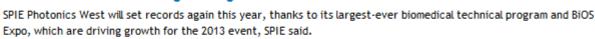






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Photonics West Boasts Largest Program Yet

Expo, which are driving growth for the 2013 event, SPIE said.



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The Phantom v711 Vision Research Inc.

High-Energy Laser Mirrors Precison Photonics Corporation



Singlemode & Polarization Maintaining (PM) Couplers **Gould Fiber Optics** 



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



In this edition of the industry's premier weekly newscast: laser optics provide an inside view of a fly's eye, solar technology is used to kill cancer cells, SPIE Photonics West 2013 promises to be the biggest show yet, and a laser reveals the skin's true age. Hosted by Photonics Media's Melinda Rose and Laura Marshall.

### Precision Photonics, ATFilms Brands Merge

Advanced Thin Films, a unit of Idex Optics & Photonics, announced that Precision Photonics and ATFilms will deliver advanced coatings, optical monitoring technology, proprietary optical bonding and polished substrates from a shared Boulder location.

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#### Microactuator Flexes Under Laser Light

A Lawrence Berkeley National Laboratory microscale actuator that flexes like a tiny beckoning finger under a burst of laser light may point toward practical applications in artificial muscles, microfluidics and drug delivery.

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# The company sold its first compact light source to the Center for Advanced Laser Applications in Munich for biomedical

imaging research. The miniature synchrotron x-ray source employs laser- and electron-beam technology and is expected to meet the growing demands of life science users who rely on synchrotrons for structural biology research. Read Article >>







## Laser Optics Enable View Inside a Fly's Eye

Automate 2013 - January 21 - 24, 2013 · Chicago, IL

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Lyncean Sells Its First Compact Light Source

New laser optics technology developed at the Technical University of Vienna supports high-resolution 3-D microscopy and is providing a view into the interior of flies, mice and tissue samples.

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#### Photonics West 2013 - February 2 - 7, 2013 · San Francisco, CA Visit us at BIOS Booth 8600 and Photonics West Booths 600 & 601 Photonics West 2013, to be held at the Moscone Center, will feature more than 4450 technical



presentations, 18 plenary talks, 40 technical events and 70 continuing education accreditation short courses. The technical conferences - up about 5 percent over last year - are organized around four symposia: BiOS (Biomedical Optics), LASE (Lasers and Applications in Science and Engineering), OPTO (Integrated Optoelectronic Devices) and MOEMS-MEMS (Micro- and Nanofabrication). A virtual symposium on Green Photonics also will be held. The trade show and conference kicks off with BiOS, where the latest optical and photonic technologies used in diagnostics, therapeutics, and imaging are presented and discussed. MORE EVENTS >>

Automate - formerly the International Robots, Vision & Motion Control Show - is the largest

solutions-based showcase of automation technologies in North America. The biennial event demonstrates the latest robotics, vision, motion control and automation technologies and

solutions for a broad array of industries. The 2013 event features four full days of classes

taught by experienced industry professionals, Certified Vision Professional (CVP) basic and advanced certification opportunities, and keynote presentations on the impact of robotics on economic growth and navigating the new political climate for business growth and success.

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