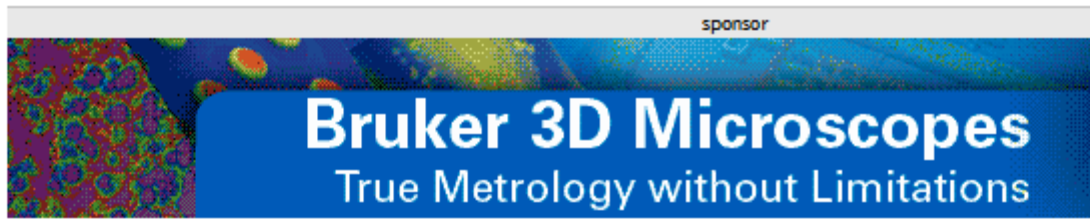




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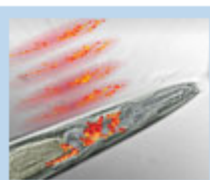




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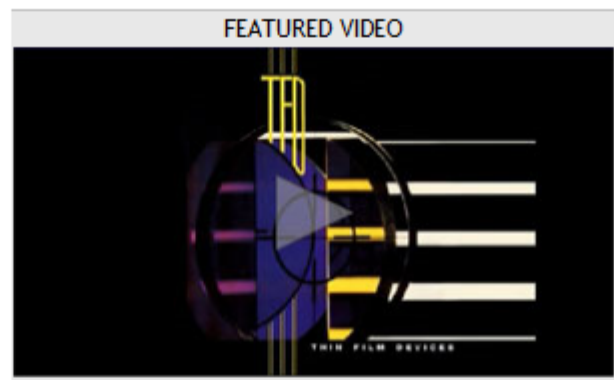
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**Sculpted Light Captures Brain Activity**  
A high-speed imaging technique that "sculpts" the 3-D distribution of light in a sample can resolve a single neuron in a living worm, opening possibilities for studying the function of the organism's nervous system and pairing brain function to anatomy. "Previously, we would have to scan the focused light by the microscope in all three dimensions," said quantum physicist Robert Prevedel, a member of the University of Vienna team. "That takes far too long to record the activity of all neurons at the same time. The trick we invented tinkers with the light waves in a way that allows us to generate 'discs' of light in the sample."

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**New UV LED Suits Commercial Applications**

An ultraviolet LED created from semiconductor nanowires doped with the rare-earth element gadolinium could lead to more portable and low-cost commercial uses of the technology.

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A method originally developed at Michigan State University for biomedical imaging puts the possibility of bomb-detecting lasers at security checkpoints within reach.

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**Edinburgh Instruments Names New CEO**

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**Lunar Mission to Test Space Laser**

With the Sept. 6 launch of NASA's moon-orbiting Lunar Atmosphere and Dust Environment Explorer (LADEE), the space agency is also venturing into what it hopes will be a new era of broadband space communications using lasers.

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**Laser-Based Tool Tells Normal Tissue From Tumors**

A new laser tool microscopically distinguishes between normal and cancerous brain tissue in real time. Since it doesn't miss cells that could trigger new tumor growth, the method could make brain cancer surgery much more effective.

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On this edition of the industry's **only weekly newscast**: NASA's mission to test space lasers takes flight, a laser-based tool can tell normal tissue from tumors, and we learn more about the do-it-yourself Galileoscope, featured at SPIE's Optics + Photonics 2013. Hosted by Photonics Media's Melinda Rose and Laura Marshall.

**Southampton Opening Center for Photonics, Electronics**

The largest photonics and electronics institute in the UK officially opens Sept. 12 at the University of Southampton.

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**SPIE: Optics + Photonics 2013 Shows Growth, Vitality**

With busy exhibition aisles, overflowing plenary audiences and more than 70 technical conferences, this year's SPIE Optics + Photonics show offered attendees a stimulating, fast-paced week that displayed growth and vitality, according to show organizers SPIE.

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**Edmund Optics Awards Higher Education Grants**

A novel approach to imaging protein-protein interactions, a holography-based technique to studying disease, and a new kind of instrument for improving the largest ground-based optical telescopes were the first-place winning projects in the optical components provider's 2013 Higher Education Global Grant Program.

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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.

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