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### Thursday, June 5, 2014

#### Laser Scanning Lends Credence to Theory of Brain Circuitry



Nerve cells in the brain can rewire and fine-tune themselves by forming connections with neighboring cells. Researchers in Canada made the discovery using timed visual stimulation and multi-photon laser-scanning technology while examining brain development in Xenopus tadpoles.

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Eric Felkel

Zygo – 3D Optical Surface Profiler Eric Felkel, Product Manager at Zygo, talks about the Prism nominated Nexview. Nexview 3D optical surface profiler excels at measuring all surfaces from super-smooth to very rough, with subnanometer precision, independent of field of view. Measurement types include flatness, roughness, large steps and segments, thin films, and steep slopes, with feature heights ranging from < 1 nm up to 20000 µm.





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**Hungarian Attosecond Laser Facility Gets EU Funding** 

The European Commission recently approved €111 million (about \$150 million) to build an attosecond laser research complex in Hungary.

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### Optogenetic Method Erases, Reactivates Memories



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Laser Sensing for Self-Driving Cars, 3-D Video Games A new technology is able to remotely sense objects across distances 10 times farther than

Augmented Reality Device Easier on the Eyes

to make augmented reality technology easier on the eyes.

with existing low-power laser systems.

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In this edition of the industry's premier weekly newscast: A low-light laser technique regrows tooth cells, flexible transistors prompt the next generation of electronic screens, optogenetics controls memory, and three researchers earn the Kavli Prize in nanoscience.

# Rotational Sensor Exploits Polarization

A rotational angle sensor that measures light polarization aims to be more efficient than its optical and magnetic counterparts.

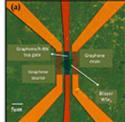
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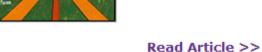


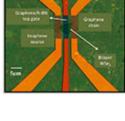


#### New Thin-film Transistors Could Mean Flexible Screens Ultra-thin, transparent, flexible transistors could lead to the next



generation of screens for computers, smartphones and televisions.





Laser Triggers Stem Cells to Fix Teeth A new low-light laser technique has shown the potential to regrow tooth cells. Share

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WHITE PAPER High-power Visible Spectrum Diode Lasers for Display

and Medical Applications - Beam Sources with Tailored Beam Quality and Spectral Characteristics DILAS Diodenlaser GmbH

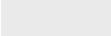
Improved beam shaping concepts allow coupling of red and blue

diode lasers into smaller fibers. For medical applications beam sources with narrow wavelength distribution in the blue spectral region were developed. Modules up to 100W in a 400µm NA0.22 fiber were realized. Progress in manufacturing technologies allows for coupling of more than 25W into a 200µm NA0.22 fiber in the blue wavelength range.

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