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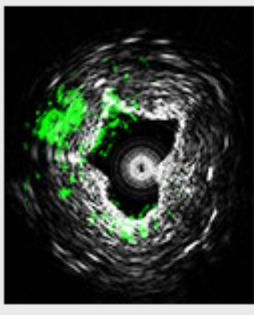
PHOTONICS MEDIA

THE PULSE OF THE INDUSTRY

Thursday, November 13, 2014

Photoacoustics Exposes Arterial Plaques



A new technique called intravascular photoacoustic imaging takes precise 3-D images of arterial plaques and reveals the presence of carbon-hydrogen bonds making up lipid molecules in arterial plaques that cause heart disease. This could advance diagnosis and treatment.

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FEATURED VIDEO



United Lens Company

Founded in 1916 and still under continuous family ownership, over the past century ULC has evolved from the world's largest manufacturer of molded lens blanks to the only truly vertically integrated manufacturer of optics providing thin film coatings, ground and polished optics, precision machined optics and hand molded optical blanks.

Poprawe Receives Schawlow Award

Professor Dr. Reinhart Poprawe, director of the Fraunhofer Institute for Laser Technology has been awarded the Laser Institute of America's 2014 Arthur L. Schawlow Award.

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Canada to Foster Quantum Photonics Collaborations

The Canadian National Research Council's Quantum Photonic Sensing and Security program is expected to translate research into technology that will boost the country's future economy.

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Single-Mode Laser Diode

Frankfurt Laser Company

A 1550-nm fiber-coupled laser diode with a 50-kHz linewidth and output power of 100 mW with fiber Bragg grating stabilization has been unveiled by Frankfurt Laser Company.

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Precision Optics Manufacturing

Ferson Technologies

Ferson Technologies manufactures stock and custom precision optical components including spherical lenses, prisms, windows, mirrors, cylindrical optics, filters and domes.

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Kentek Corp.

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Software Offers Panoramic Views for Endoscopy



A new software program that fuses together endoscope images could offer a fuller internal view of organs to better diagnose cancer and other ailments.

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Microscopy Aids Single-cell, Whole-Body Imaging

CUBIC, a new microscopy and imaging technique, could make tissue and potentially whole organisms transparent, potentially offering a better understanding of the human body.


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Handheld Probe Combines Photoacoustics, Ultrasound

A handheld imaging system that combines photoacoustics and ultrasound can produce detailed, real-time images of blood vessels, internal organs and body parts.

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Light Matters



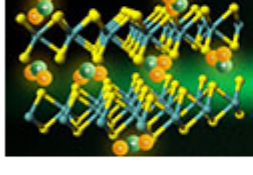
In this edition of the industry's premier weekly newscast: The role of photoacoustic imaging in combating heart disease, the interaction between sound waves and optical fibers, Managing Editor Laura Marshall's wrap-up report from the 2014 Vision show in Stuttgart, Germany, and another installment of our EDU Spotlight.

Telecommunications Advocate Receives OSA Award

Isao Sugino, of the Telecommunications Bureau of Japan's Ministry of Internal Affairs and Communications, has been awarded The Optical Society's 2014 Advocate of Optics prize.

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Light Damps 2-D Semiconductor Conductivity



Researchers have discovered that light decreases the conductivity in 2-D molybdenum disulfide, a phenomenon that is atypical of most semiconductors.


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Phosphorescent Bandage Helps Wound Assessment

A "smart" bandage can indicate oxygen concentration in severely damaged tissue, potentially increasing the success rate of surgeries to restore limbs and physical functions.

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WHITE PAPER



LED Simulation Reflector Lenses

Lambda Research Corp.

TracePro® is an award-winning opto-mechanical design software for layout, optimization, & analysis of illumination systems. This white paper illustrates how TracePro allows users to begin a project with an initial or basic design for LED lighting systems, use software simulation prior to building hardware, and easily create complex reflector shapes. TracePro's reflector and lens simulation utilities are specifically designed to help CAD designers without traditional optical engineering expertise design LED optical components quickly.

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