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Thursday, April 30, 2015



This week on *Light Matters*:

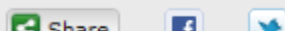
See how photonics technologies are making the battlefield more like a video game.

Low-Energy Lasers Produce Microplasmas for Spectroscopy



An advantage of this "one-color" approach is the fact that the terahertz waves propagate in a different direction to the laser beam. This makes it easier for potentially coupling the terahertz waves to a wave guide on a microchip, for example.

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Attosecond Laser Facility Awards €1.4M in Secondary-Source Contracts

Near-infrared femtosecond pulses will drive the secondary sources, producing terahertz, midwave IR, UV, extreme UV and x-ray pulses with duration from a few picoseconds to attoseconds, depending on the wavelength.

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Strengthen Ground-Based Optical, IR Astronomy, Says National Research Council

The best science, according to the nonprofit group, will be achieved through a system that is well coordinated and facilitates broad access to telescopes funded by the government and other organizations, in addition to the data they produce.

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Featured Products



3-Chip UltraHD 4K Video Camera

Toshiba Imaging Systems
Toshiba Imaging's new IK-4K (3840 x 2160) UltraHD 4K camera delivers world-class 59.94Hz performance from the smallest package available at only 1.28" x 1.51" x 1.61".

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Tamarisk Precision Radiometry

DRS Technologies
DRS Technologies evolves its popular Tamarisk@320 line of micro thermal imagers with the introduction of its Tamarisk@ Precision Series for general purpose radiometric detection and imaging.

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MMP Series Micropositioners

Mad City Labs
The MMP series micropositioners employ our proprietary intelligent control resulting in exceptional stability and high native precision and repeatability.

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Broad Spectrum Alignment Filter Eyewear

Kentek Corporation
Broad Spectrum Alignment Filter Eyewear used in applications where you want to dial in low power alignment across the visible light spectrum. Comes with a variety of frame options to suit all needs.

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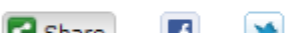
More Articles on Photonics.com

Optical Processor to Boost Speed, Reduce Energy Demands of Genome Research



"Until now, meaningful optical processing technology has been impractical for a number of reasons," said Optalysys CEO Dr. Nick New. "Advancements in liquid crystal technology now permit numerical data to be dynamically entered into an optical system at high speeds and resolutions."

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Expansion Doubles Diamond-Growing Capacity at Scio

The company's patented chemical vapor deposition (CVD) process allows production of diamonds that are physically and optically identical to mined diamonds.

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Richards-Kortum Elected to Academy of Arts and Sciences

The Rice University bioengineering professor uses optics to help fight disease as director of the Rice 360° Institute for Global Health Technologies.

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WHITE PAPER



DRS Technologies' Patented Sensor Technology Revealed

DRS Technologies, Inc., Commercial Infrared Systems

Learn the truth about what's behind DRS Technologies' competitive advantage over thermal sensor manufacturers – the patented Advanced-Absorber Microbolometer Superstructure, providing better performance through superior image quality and enhanced sensitivity. Designed by DRS' Principal Staff Scientist, Dr. George Skidmore, PhD, the patented structure started with a simple question, "How could the common bolometer be redesigned to provide enhanced absorptivity and resistance for heightened performance?"

[DOWNLOAD WHITE PAPER >>](#)

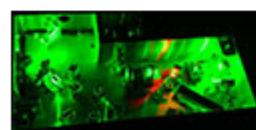
Schlüter to Head Business Development at Laser 2000

Dr. Ing. Holger Schlüter has been named head of business development for kilowatt lasers at Laser 2000 GmbH.

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Frequency Comb Has the 'Teeth' to Measure Terahertz Waves



A frequency comb that generates and detects terahertz waves throughout a wide spectral range could allow precise measurement of molecules in deep space.

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PI Names Matt Reck Product Line Manager for Air-Bearing Positioning Stages

PI manufactures motion-control equipment, piezo motors, air-bearing stages, and hexapod parallel kinematics for semiconductor applications, photonics, bio- and nanotechnology and medical engineering.

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Industry Events

CLEO Laser Science to Photonic Applications 2015 - May 10-15, 2015 · San Jose Convention Center - San Jose, Calif.



CLEO 2015 features breakthrough research and applied innovations. The event has been redesigned to include the same content under five core elements: QELS: Fundamental Science, Science & Innovation, Applications & Technology, Market Focus and Expo.

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NON-DESTRUCTIVE EVALUATION

Advanced Scientific Concepts - 3D Flash LIDAR Camera

Tom Laux of Advanced Scientific Concepts talks about their new Peregrine Camera.

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- Optical Transfer Function
- Instrumentation
- Silica Multimode Fiber



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