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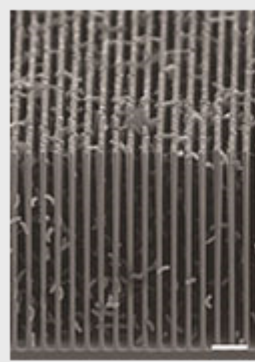
Thursday, April 23, 2015



This week on **Light Matters**:

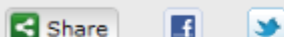
Ever wonder what it's like to be a photon? We'll show you!

Solar Nanowire-Bacteria Array Converts CO2 into Useful Chemicals



The yields of target chemical molecules were encouraging: as high as 26 percent for butanol, a fuel comparable to gasoline; 25 percent for amorphadiene, a precursor to the antimalaria drug artemisinin; and 52 percent for the renewable and biodegradable plastic PHB.

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Trumpf Acquires Fiber Laser Subsidiary from GSI Group for \$31.5M
JK Lasers Ltd. of Rugby, England, will become part of Trumpf's SPI Lasers UK Ltd. of Southampton, England.

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Edmund Optics Awarded Multimillion-Dollar Defense Contract for IR Smart Sensors

"We see positive response to new investments in IR molding and diffractive optics technologies, which, in conjunction with traditional processing, pave the path to lighter and higher-performing optics for systems supporting the defense industry," said Samuel Sadoulet, the company's president and chief operating officer.

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Featured Products



Bi-Telecentric Lenses

Daheng New Epoch Technology Daheng Telecentric lenses are developed by using a pair of base lenses to achieve telecentricity required on object and image plane.

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Complete Turnkey Solutions

Precision Glass & Optics Precision Glass & Optics supplies complete in-house turnkey optics solutions, including precision and commercial components, thin-film coatings, fabrication, and a large readily-available inventory of glass.

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Tamarisk® Precision Radiometry

DRS Technologies, Inc. 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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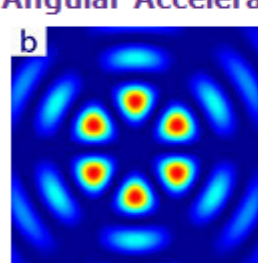
Opticentric® 3D UP

TRIOPTICS GmbH The OptiCentric® 3D UP is a pioneering ultra-precise metrology solution combining, for the first time, the proven OptiCentric® centration measurement technology with the OptiSurf® low-coherence interferometer.

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More Articles on Photonics.com

Angular Acceleration Observed in Helical Light Beams



This is the first time that angular acceleration has been observed in light, according to a team of researchers from Africa and Germany. The phenomenon could lead to new applications in structured light fields, they said.

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Deverell Named VP of Finance, Administration at Sydor Instruments

In this newly created position, Scott Deverell will provide financial leadership for the company, which operates in the U.S. and U.K.

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Cui to Bolster eMagin's HMD Effort as VP of Business Development

Dan Cui has been named vice president of business development for eMagin Corp.'s head-mounted display (HMD) group.

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WHITE PAPER



e2v Space-Qualified CMOS Image Sensor Capability and Roadmap

e2v

e2v, a leading global supplier of space qualified image sensors, is expanding their line of CMOS image sensors for space applications which will benefit from the speed, low power and radiation tolerance CMOS affords.

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ASML to Provide EUV Lithography Systems to US Semiconductor Manufacturer

"Long-term EUV planning and EUV ecosystem preparation is greatly supported by this commitment to EUV, kick-starting a new round of innovation in the semiconductor industry," said ASML President and CEO Peter Wennink.

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Camera Powered by the Light It Captures



Absorbing solar energy one moment and capturing images the next, a prototype video camera is said to be the first that is entirely self-powered.

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L-3 Beam Director to Aid Canadian Defense R&D

Designed for use on open-field test ranges, the trailer-mounted high-energy laser (HEL) beam director (BD) includes a vision system, aiming aids and a multikilowatt optical system, allowing the operator to adjust the spot size of the beam on target to evaluate the laser's capabilities.

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Thursday, April 30, 1 p.m. EDT

FREE WEBINAR

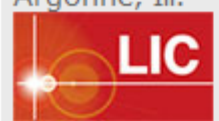


Chris Wood

The Technology Transfer Program, part of the annual Conference on Lasers and Electro-Optics, is a chance for researchers to learn about turning their discoveries into marketable products. This webinar offers a taste of the program, with talks from two veterans of the process.

Industry Events

Laser Ignition Conference - April 27-30, 2015 - Argonne National Laboratory - Argonne, Ill.



This is the third conference that attempts to collate the latest developments in laser and laser technologies for the feasibility of laser ignition in practical combustion systems. Included in this conference are guest lectures from leading authorities on laser ignition technologies.

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FEATURED VIDEO



WILLIAM MACKENZIE

Necsel Technology Enables Cinema Laser Projection

Necsel's green laser technology has enabled a creation of ultra-high brightness laser projectors aimed at large venue and 3D digital cinemas. Winning a PRISM Award in 2014, Necsel Green laser provides the wavelength range necessary to produce 6 primary 3D with low speckle and twice the brightness of a halogen lamp projector.

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