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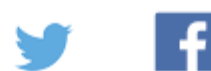
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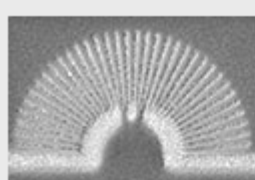
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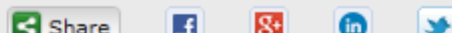
Thursday, May 28, 2015

Metamaterial Hyperlens Breaks Diffraction Limit



Developed at The State University of New York at Buffalo, the new device relies on a nonresonant, waveguide-coupled design to overcome the losses previous hyperlenses suffered at optical wavelengths.

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L-3 KEO to Upgrade Submarine Periscopes under \$48.7M Navy Contract

The contract is part of the Block 4 Low Profile Photonics Mast (LPPM) program, the purpose of which is to reduce the signature of the periscope, making it less identifiable as a U.S. Navy submarine because it appears similar to existing periscopes.

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Glowforge Raises \$9M to Bring Laser Cutter-Engraver to Consumers

The funding round was led by Foundry Group of Boulder, Colo., and True Ventures of San Francisco, with participation from Bre Pettis, cofounder and former CEO of desktop 3-D printer manufacturer MakerBot Industries LLC, and Jenny Lawton, former CEO of MakerBot.

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Featured Products



Combo Source LDD/TEC Controller

Arroyo Instruments
The new 6300 Series ComboSource Laser Diode Controller offers the best of both worlds: a high accuracy, low noise laser driver and a powerful 60W temperature controller, all in one compact instrument.

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High Efficiency Mid-Band OPO

Continuum
Continuum's Horizon offers up to 40% conversion efficiency, an extended tuning range into the vacuum ultraviolet (192-2750nm), narrow linewidth and active precision control throughout.

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Laser Safety Curtain Systems

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Solar Sail Spacecraft Begins Test Voyage in Orbit



The flight is a test of The Planetary Society's LightSail, which the organization said could change how satellites and even larger spacecraft move around the solar system.

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Laser Guide Star System Installed at Very Large Telescope in Chile

The first of four laser guide star systems developed by Topica Photonics AG of Germany and MPB Communications Inc. of Canada has been installed and brought online at the European Southern Observatory's Very Large Telescope in Chile.

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New American Institute of Physics CEO Has Optics Background

Robert G.W. Brown previously served as the chief sensor scientist at the Advanced Technology Center of Rockwell Collins Inc. and worked concurrently as an adjunct full professor in the Beckman Laser Institute and Medical Clinic of the University of California, Irvine, and in UC Irvine's department of computer science.

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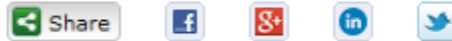
This week on **Light Matters**:

Two new projects hang 10 on some gnarly electromagnetic waves.

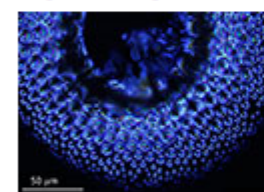
Ocean Optics Appoints Vice Presidents of Technology, Finance

Steven Frey will drive development of technologies for next-generation applications of miniature spectroscopy, and Tony Keller will be responsible for all aspects of finance, accounting, information technology and office administration.

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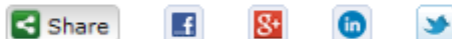


Liquid Crystal Compound Lens Eyed for 3-D Imaging



Liquid crystal can be controllably formed into compound lenses similar to those found in insects, a team from the University of Pennsylvania has demonstrated.

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Ashgari Joins Mellanox as VP for Silicon Photonics

Mehdi Asghari has more than 20 years of research and product development experience within the silicon photonics industry. Previously, he was chief technology officer at Kotura Inc., which was acquired by Mellanox in 2013.

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Researchers from around the world will present their latest work at "Biophotonic Imaging for Medicine: A Digital Conference." The online event will feature a series of 15- and 30-minute talks, each followed by a brief question-and-answer period.

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Industry Events

Sensors Expo & Conference 2015 - June 9-11, 2015 · Long Beach Convention Center, Long Beach, Calif.



Photonics Media will chair an Optical Sensing & Detection education track on Thursday, June 11. The track will feature speakers on a range of optical sensing technologies including MEMS-based acoustic and optical sensors, fiber optic position sensors, 3-D optical deformation and strain measurement and more.

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