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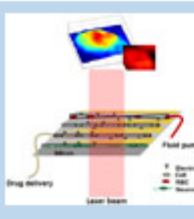
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Seeing Cells Through Silicon
A new type of near-infrared microscopy can image cells through a silicon wafer, providing more information about diseased or infected cells flowing through microfluidic devices. "This has the potential to merge research in cellular visualization with all the exciting things you can do on a silicon wafer," said Ishan Barman, a former postdoc at MIT's Laser Biomedical Research Center (LBRC) and a lead author of a paper on the technology.

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'God Particle' Theorists Share Physics Nobel
Peter Higgs and François Englert will share the 2013 Nobel Prize in Physics for their independent theoretical discoveries nearly 50 years ago of the Higgs boson, the so-called "God particle" that gives all other particles their mass.

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Photonic Laser Thruster Gains More NASA Funding
Y.K. Bae Corp. was awarded \$500,000 from NASA's Innovative Advanced Concepts Phase II program to further develop its photon-based space propulsion technology.

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New Scientific ICCD Camera
Princeton Instruments' PI-MAX4:1024i-RF intensified CCD camera for frequency domain scientific imaging and spectroscopy applications is the most recent addition to the acclaimed PI-MAX® product line.

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Ventana Spectrometers
Ocean Optics has expanded its Elite Series of high-performance modular spectrometers (www.elitespectrometers.com) with the introduction of the Ventana family of high throughput spectrometers.

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Cold Atom Cells
Triad Technology Cold and ultracold atomic physics: The field of cold atom physics deals with cooling collections of atoms to sub-millikelvin temperatures using laser cooling techniques.

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Optical Clocks Measure Height Differences
A new approach uses optical atomic clocks to precisely measure height differences between locations thousands of kilometers apart, a development that could have implications for quantum mechanics, geodesy and radio astronomy.


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Biophotonic Solutions Closes \$1M Funding Round
The provider of automated laser pulse compression technology closed a \$1 million Series A funding round led by the Michigan Angel Fund.

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Laser-Based Lighting Produces Cool White Light
A new laser-based lighting method produces highly efficient cool white light, offering an alternative to LEDs, which can be prone to droop and heating issues.

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On this edition of the industry's **only weekly newscast**: better optical modulators boost silicon photonics, imaging cells through silicon improves visualization, and a tabletop OPA generates 10 TW of energy. Hosted by Photonics Media's Laura Marshall and Melinda Rose.

Tabletop OPA Generates 10 TW
A new optical parametric amplifier that's extremely efficient and small enough to fit on a desktop generates light pulses of more than 10 terawatts, physicists in Poland report.


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Tiny Camera Takes a Wide View
A new imager achieves the optical performance of a traditional wide-angle or fish-eye lens – and in high resolution – but in a device less than one-tenth the volume.

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Photonics Supporters Carry Message to Congress
Dozens of photonics industry representatives from throughout the country visited congressional offices on Capitol Hill in late September as part of the National Photonics Initiative.

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As technology in the optics industry continues to advance and improve, careful consideration of the properties of epoxies must be evaluated. When determining the most effective adhesive to be used in opto-electronics, medical and other optical related industry applications, trade-offs of key characteristics should be assessed. Here is a guide to the different properties to consider, their benefits and potential disadvantages and advice on how to prioritize these factors for the success of the application.

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Industry Events

WEBINAR

Adaptive Optics for Microscopy
Wednesday, October 23, 2013 1 p.m. EST/10 a.m. PST

FREE WEBINAR

Enabling Structured Illumination Microscopy in Thick Tissue with Adaptive Optics
Peter Kner, University of Georgia

Adaptive Optical Microscopy Using Direct Wavefront Sensing
Joel Kubby, Professor & Chair, Electrical Engineering Department, Baskin School of Engineering, University of California, Santa Cruz





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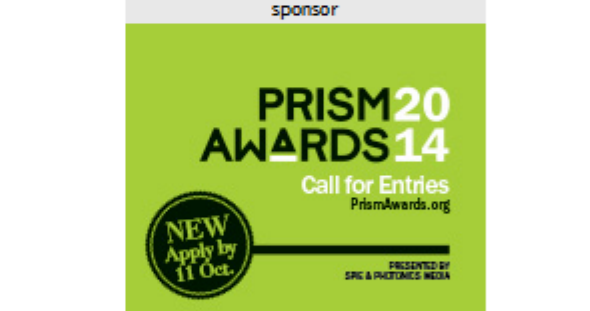


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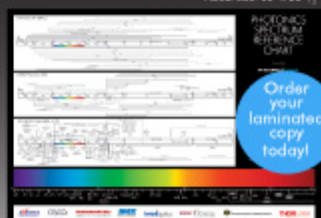
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