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**Active Cloak Most Broadband to Date**

An active invisibility cloak – that is, one designed to work with an external power source – could significantly broaden the device's operation bandwidth, moving its applications beyond camouflage. "Many cloaking designs are good at suppressing the visibility under certain conditions, but they are inherently limited to work for specific colors of light or specific frequencies of operation," said Andrea Alù of the University of Texas at Austin. But in his team's work, "we prove that cloaks can become broadband, pushing this technology far beyond current limits of passive cloaks. I believe that our design helps us understand the fundamental challenges of suppressing the scattering of various objects at multiple wavelengths and shows a realistic path to overcome them."





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**Kirschner Joins REO Management Team**

Roger Kirschner, who has more than 30 years of experience in the photonics industry, joined the precision optics manufacturer as business development manager.





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**Final JWST Mirrors Arrive at Goddard**

The final three of 18 primary mirrors built for the James Webb Space Telescope arrived at Goddard Space Flight Center for integration prior to a scheduled launch in 2018.





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**Biophotonics Center Established at Adelaide**

The goal of the center, funded by the Australian Research Council, is to develop technologies that will help researchers to see into the body in unprecedented ways by crossing the boundaries of biology, lasers and nanoscience using light-based sensors to probe molecular processes within living systems.





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**THz Generator Has Highest Signal Quality**

A terahertz generator currently in development improves signal quality by 1 million times as compared with the best device of its kind available on the market, opening the technology to applications in biomedicine, transportation safety, industry and radio astronomy, among others.

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**Fiber Wavelength Combiners**

**Gould Fiber Optics**

Fused fiber wavelength combiners are made of single-mode or polarization maintaining optical fiber enabling MUX/DEMUX function for any two, three or four wavelengths.

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**Streampix 5 Recording Station**

**NorPix, Inc.**

Streampix 5 recording station records from multiple cameras simultaneously at up to 2 Gigabyte per second. Compatible with IrigB, computer clock timing, and IO DAQ data module.

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**One Stop Shopping**

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



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**Hubble Spots Vapor Venting Off Europa**

NASA's Hubble Space Telescope spectroscopically detected water vapor over the frigid south pole of Jupiter's satellite Europa, providing the first strong evidence of water plumes erupting off the moon's surface.





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**EPIC Celebrates 10 Years**

The European Photonics Industry Consortium recently marked its 10th anniversary with a number of activities involving the European photonics community, including meetings with the European Commission, an EU funding session, an award presentation, and panel discussions on technology and business.





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**Partnership to Advance Optical Biopsies**

Medical device company Mauna Kea Technologies and Imperial College London are partnering to advance research and applications of Mauna Kea's optical biopsy platform, Cellvizio.





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**Photonics Gateway Launches**

The objective of ukphotonics.org, a new national website, is mapping the UK's photonics activity to assist industry and academia with finding resources and collaborators.

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**Power Technology's iMAT® DPSS Laser Platform Ideal for Raman Spectroscopy**

**Power Technology, Inc.**

Power Technology's iMAT® series of DPSS lasers are inherently beneficial to the Raman Spectroscopy industry because of its patented technology which inherently produces actively stabilized single frequency wavelengths at 532 nm and 1064 nm. This revolutionary technology earned international recognition by winning the Frost & Sullivan European Diode-Pumped Solid State Laser Technology Innovation of the Year award in 2009.

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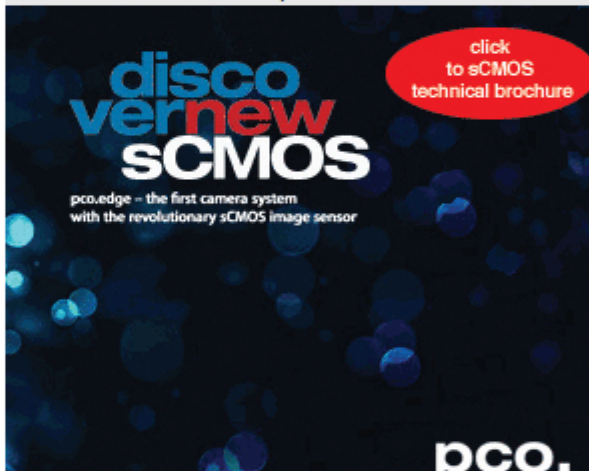


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**Industry Events**

**SPIE Photonics West 2014 - February 1 - 6, 2014 - San Francisco, CA**

Participate at the SPIE Photonics West 2014 conference (20,000 attendees, two exhibitions, 1300 exhibiting companies, 4500+ papers) for biophotonics, biomedical optics, translational research, industrial lasers, optoelectronics, microfabrication, optical MEMS, and more.

In 2013, the exhibition sold out with more than 1234 companies. This year's exhibition will include five days of presentations, courses, and special events that offer opportunities for face-to-face interaction with potential customers.

The Job Fair will be held in conjunction with the SPIE Photonics West Exhibition. An 'Exhibit-Only' badge or any other type of Photonics West badge is needed to enter the exhibit hall. Upload your CV or resume in advance to be found by employers. In-person attendance is not required to upload your resume.

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