This Week In

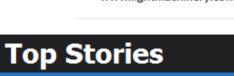












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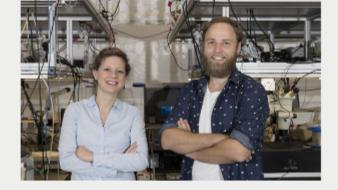


Converting Light to Sound Waves Leads to Hybrid Chip for **Data Transfer**

coherently to an acoustic hypersound wave on a photonic microchip. Optical information is extracted using a reverse process. A coherent

Researchers have demonstrated a way to transfer optical information

buffer can store the photonic information in a sound wave for later retrieval.



Acceleration







plasma acceleration practical for future applications, researchers have developed a method to increase beam stability and quality.

Laser plasma acceleration, which has a smaller footprint and higher peak currents than conventional electron accelerators, could be the basis for the next generation of compact light sources. To make laser

Read Article 3 (1) (ii) (i)

grown on industry standard (001) silicon substrates. Continuous-wave

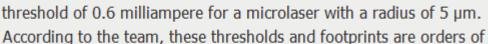


QD Lasers Could Be Smallest to Date

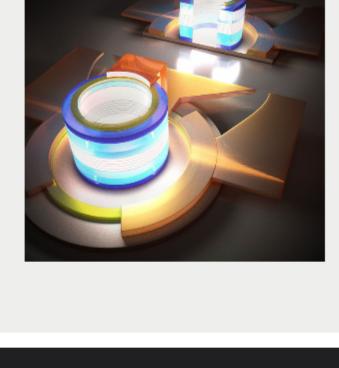




lasing up to 100 degrees Celsius was demonstrated at 1.3 µm communication wavelength. Researchers achieved a submilliamp



magnitude smaller than any previously reported lasers epitaxially grown on silicon (Si).









Lasers in Industry resources into a guide to the current use of lasers in industry, a

CHOPPINES working on, implementing or considering the application of lasers for and in industrial settings.

Photonics Media has gathered

reference tool and a resource for

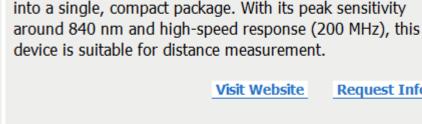
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detected signal. UWOC systems could provide flexible and costeffective means for streaming high-quality underwater video images.

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Quantum Communication Researchers have experimentally demonstrated photon entanglement swapping and teleportation for multiple orbital angular momentum (OAM) states of light. When OAM is used as an information carrier, photon states can decay over long distances — thus a way to amplify the signal is needed. A quantum repeater allows the establishment of entanglement between two distant points without requiring one photon to travel the entire distance, thus reducing the effects of decay and

Quantum Repeater Could Speed, Secure Long-Distance

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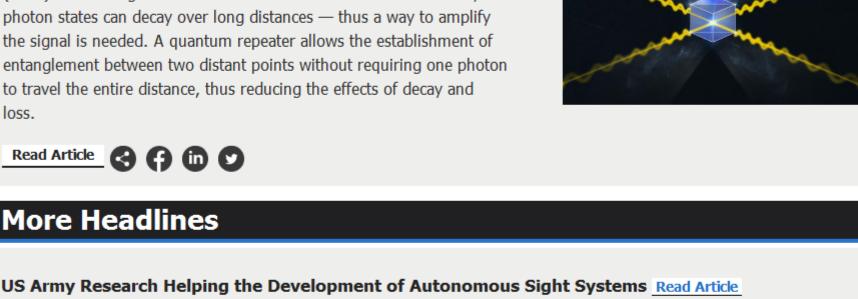
industry and research. Attendees will have ample opportunity to further their professional development through presentations, conferences, training courses and "how-to" tutorials. Industries represented will include advanced manufacturing, biophotonics and life sciences, defense, environment and others. Laser, optoelectronics,

Photonex 2017 will connect the supply chain with the UK's photonics

user communities by bringing together all aspects of photonics

Webinars Learn Efficient Luminaire Design Using Virtual Prototyping Thu, Oct 12, 2017 1:00 PM - 2:00 PM EDT In this webinar, you will learn how to design more efficient luminaires using Lambda Research's TracePro software, a 3D CAD virtual

when to use diffusers to improve design output, how to create reports and check luminaire output for design regulations, and Tips and Tricks for creating better luminaires in less time. This webinar is presented by Lambda Research Corporation, a leading designer and publisher of illumination and optical design software. Register Now PHOTONICS buyers' guide® Looking for Fiber Optics & Accessories products? Search PhotonicsBuyersGuide.com, or browse these product categories:



Industry Events Photonex 2017 October 11-12, 2017 - Ricoh Arena - Coventry United Kingdom

optical sensing, spectroscopy and other photonics technologies will be on display at Photonex 2017.

prototyping program with the power and tools to simulate and design luminaires. The webinar will cover how to design luminaires for maximum efficiency and specified angular output, how to use photorealistic rendering to make sure a luminaire works as designed,

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