

This Week In PHOTONICS

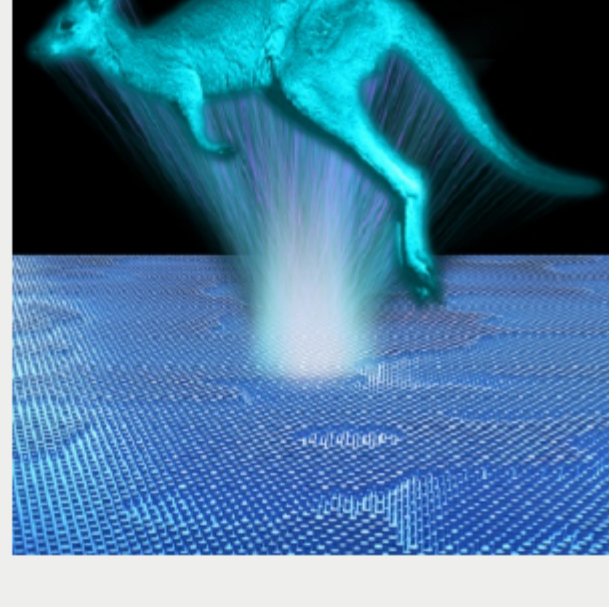
PHOTONICS MEDIA



Top Stories

Infrared Hologram Device Achieves New Optical Properties

Australian National University (ANU) physicists have invented a tiny device that creates the highest quality holographic images ever achieved, opening the door to imaging technologies often seen in science fiction movies. Holograms perform the most complex manipulations of light. They enable the storing and reproduction of all information carried by light in 3D.



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Liquid Lens Paired With Infrared Light and a Smartphone Creates Smart Glasses

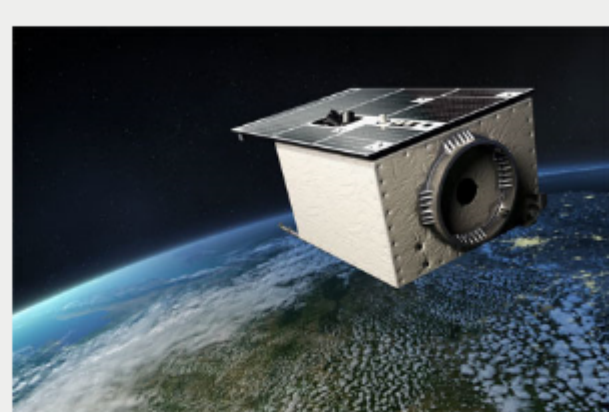
Liquid-based lenses that automatically focus on what a person is seeing could replace reading glasses and bifocals in the near future. The human eye has a lens inside that adjusts the focal depth depending on what is being viewed. But as people age, the lens loses its ability to change focus, which is why many people ultimately require reading glasses or bifocals to see objects up close, and regular eyeglasses to see far away.



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Remote Sensing Data Helps Scientists Measure Biodiversity

Remote sensing methods, which have been used to measure biological diversity for about 30 years, show even greater potential for assisting biodiversity research in the future. A key task of this research is to record the current state of diversity, study processes within ecosystems and identify possible changes.



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Construction Vehicle Becomes Rescue Robot

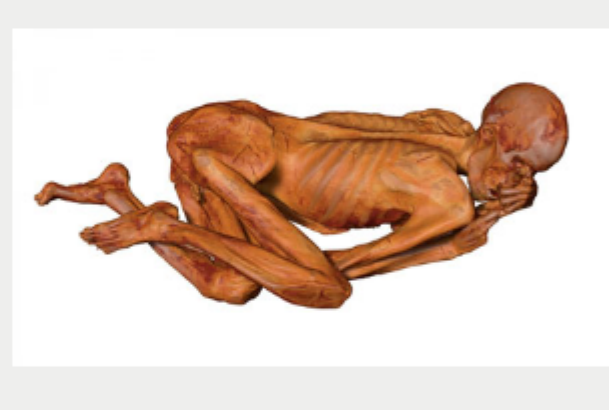
A group of Japanese researchers have developed a prototype construction robot for disaster relief situations equipped with far-infrared ray cameras and the ability to deploy a drone. This prototype has drastically improved operability and mobility compared to conventional construction machines.



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Computer Tomography, Volumetric Imaging Reveal Details of Ancient Past

Computer tomography (CT) scanning and volumetric visualization have been used to create a 3D display of the Gebelein Man, a 5,500 year-old natural mummy buried during the late pre-dynastic period at the site of Gebelein in Upper Egypt. Visitors to the Early Egypt Gallery at the British Museum can now interact with this display, even performing a virtual biopsy on the Gebelein Man in real time with the touch of a hand.



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Industry Events

IPC Apex Expo 2017
 February 12-16, 2017 - San Diego Convention Center - San Diego United States
 IPC APEX EXPO 2017 is a unique five-day event on the printed circuit board and electronics manufacturing industry. Professionals from around the world come together to participate in the Technical Conference, Exhibition, and Professional Development, Standards Development and Certification programs held at the conference. These and other activities offer education and networking opportunities that can positively impact your career and company by providing you with the knowledge, technical skills and best practices and any challenge you face.



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Webinars

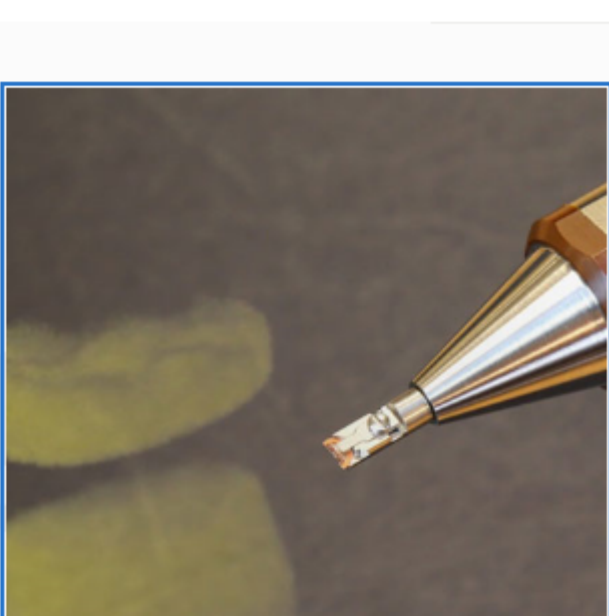
An Overview of AFL's Fiber Processing Software for 100-Series Machines
 Tue, Feb 7, 2017 1:00 PM - 2:00 PM EST
 This free webinar will cover the shaping, prototyping and data collection capabilities of AFL's Fiber Processing Software (FPS). Discussion will center on basic operation of AFL's different modules, from tapering to data collection, and will include a demonstration of the company's new visual scripting interface, SpiceScript.

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Characterizing Photonics Devices with Transmission Electron Microscopy
 Fri, Feb 10, 2017 1:00 PM - 2:00 PM EST
 Brookhaven's Eric Stach will talk about the ways that TEM can be used to take images of the structure of photonics devices at the Angstrom to micron scale; how diffraction can be used to characterize crystal structure; and more. Throughout his presentation he will draw on examples of applications issues from current literature, using them to share his own understanding and approach to these issues.

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