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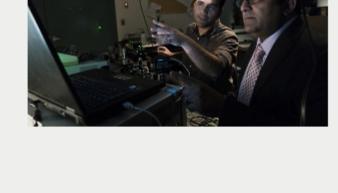
Optical Fiber Used to Direct, Stabilize Random Laser

Top Stories

An advance in laser technology combines the broad spectral features of a random laser with the spectral stability and high directionality of a

traditional laser. Such an advance could enable greater use of random lasers in applications where a broad spectrum illumination source would be of benefit.

Spectrometer Uses Silicon Photonics to Monitor Gas Leaks



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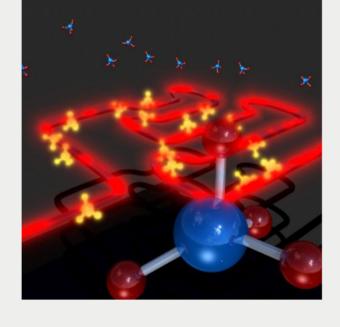




A chip-based spectrometer that is smaller than a dime has demonstrated the ability to detect methane in concentrations as low as

tunable diode-laser absorption spectroscopy (IR-TDLAS) on a CMOScompatible platform. It uses an approach similar to absorption spectroscopy; but instead of a free-space setup, the laser travels through a narrow silicon waveguide.

100 parts-per-million. The spectrometer leverages silicon photonics technology to realize a compact, cost-effective design that provides IR



Single Nanoparticle Maps Pave the Way for Better

Nanotechnology







to map individual nanoparticle responses in different situations and contexts could pave the way for better nanomaterials and safer nanotechnology.

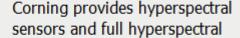
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image sensor, designed with Teledyne e2v's proprietary CMOS imaging technology. It is

BORA 1.3M Time of Flight

Teledyne e2v (UK) Ltd.

ideal for systems operating at short or mid distances and ranges. It features an optimized multi-integration mode

> cameras and sensors, image processing,

software and more.

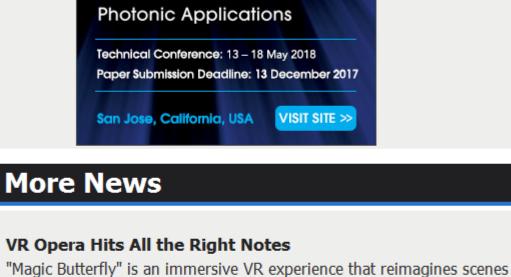
The 3D Time of Flight (ToF) BORA

sensor is a 1.3 million pixel CMOS

Request Info Visit Website Machine Vision A new resource on

Sensor

system design and selection, applications,



from "Madame Butterfly" and "The Magic Flute," featuring original

VR/AR content production agency REWIND and the WNO, in

envelope viewers in an interactive 3D performance.

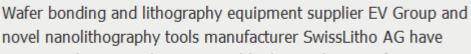
recordings from the Welsh National Opera (WNO). It was created by

collaboration with CAMERA, the University of Bath's motion capture research center. The production combines the emotion and beauty of WNO soprano Karah Son's voice with high-quality avatar imagery to



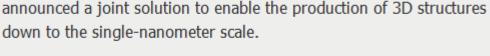
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improve productivity, increase profits and meet your metal forming, fabricating, welding, and finishing needs. More than 50,000 attendees

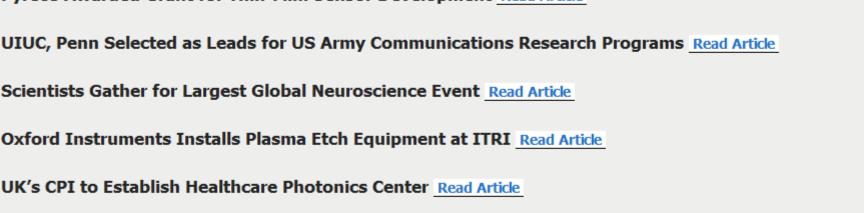
the latest industry products and developments, and find tools to

Industry Events

and over 1,700 exhibiting companies are expected at this year's event. FABTECH also provides educational sessions and expert-led presentations covering the latest trends and technology in the metal

Pavilion.

More Info Webinars This webinar will explain the most important elements of laser safety and provide practical advice on how to implement a laser safety program in a research, academic and/or product development

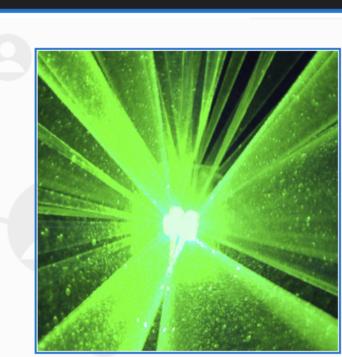


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laboratory setting. Presenter Ken Barat, a laser safety consultant and long-standing expert in the field, will present a number of lessons he has learned on lab design for a safe environment and laser accident prevention. He will also address common misconceptions about laser safety, before opening the floor to questions from attendees. This webinar is sponsored by Kentek. Register Now PHOTONICS buyers' guide®



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