

This Week In PHOTONICS

PHOTONICS MEDIA



sponsor



Meet the Editors

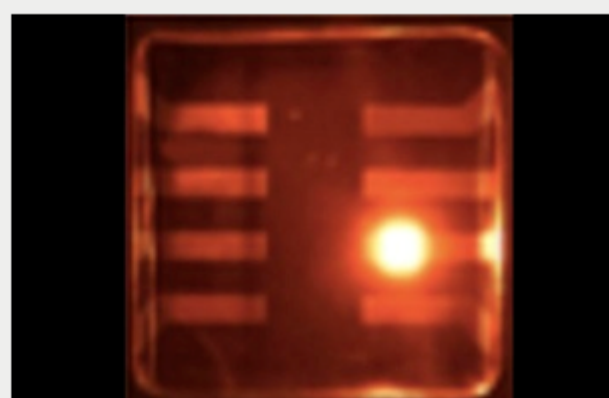
Photonics West – Wednesday, February 5, 3:00 p.m. | Booth 658/659



Top Stories

Colloidal Quantum Dot Laser Diodes on the Horizon

Scientists at Los Alamos National Laboratory have incorporated meticulously engineered colloidal quantum dots into a new type of LED containing an integrated optical resonator, which allows the LEDs to function as lasers. The researchers demonstrated an operational LED that also functioned as an optically pumped, low-threshold laser.



[Read Article](#)

Diabetic Smart Contact Lenses Developed by South Korean Research Team

A research team from Pohang University of Science and Technology in South Korea developed technology that allows diagnosis of diabetes and treatment of diabetic retinopathy by wearing smart light-emitting diode (LED) contact lenses. The device is said to work by analyzing the glucose concentration in tears via near-infrared light and delivering drugs to treat retinopathy.



[Read Article](#)

Self-Heating in OLEDs Can Cause Decrease in Luminance

A research team from the Technical University of Dresden and the Weierstrass Institute Berlin has demonstrated experimentally that OLEDs will display regions of decreasing luminance with increasing driving current. The researchers showed that OLEDs not only saturate, but that certain regions in the OLED panel will "switch back" in brightness.



[Read Article](#)

Featured Products



Polarizing Film Optical Design Library

Airy Optics Inc.

The Polaris-M ray tracing program is expanding with a new library of polarizing films with measured angle and wavelength dependence. Simulate imaging and VR/AR with lenses, mirrors, crystal polarizers, retarders, and plastic lenses with stress birefringence.

[Visit Website](#) [Request Info](#)



New CMOS Sensor Family, Targeted at 3D Laser Triangulation Applications

Teledyne e2v (UK) Ltd.

Teledyne e2v announces its Flash CMOS image sensor family, specifically tailored for 3D laser profiling/displacement applications and high speed, high resolution inspection. The new Flash sensors feature a 6 μm CMOS global shutter pixel which effectively combines high resolution and fast frame rate.

[Visit Website](#) [Request Info](#)



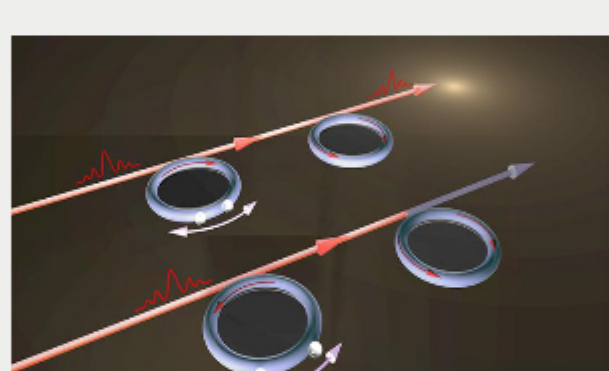
sponsors



More News

Tuned Resonators Allow Control of Electromagnetically Induced Transparency

Researchers at Washington University in St. Louis have devised an optical resonator system that can be used to turn transparency on and off. The ability to manipulate electromagnetically induced transparency without the introduction of an outside influence, such as additional photons, could provide scientists and engineers with more precise control over how much light passes through a medium.



[Read Article](#)

Deep Learning Enables Real-Time Imaging Around Corners

A team of U.S. researchers has created a laser-based system able to image around corners in real time. With further development, the system may allow self-driving cars to look around parked cars or busy intersections to see hazards or pedestrians. The technology could also be installed on satellites and spacecraft for tasks such as capturing images inside a crater on an asteroid.



[Read Article](#)

More Headlines

[LED Lighting Provides Energy Efficiency, But Needs Standards](#) [Read Article](#)

[Slow-Light Waveguide Provides Beam-Steering Capabilities for Lidar](#) [Read Article](#)

[Majorana: The So-Called Angel Particle Was Not Discovered](#) [Read Article](#)

[Scientists Analyze Final Images from Cassini](#) [Read Article](#)

[Marriage of Microscopy Techniques Reveals Cells' 3D Ultrastructure](#) [Read Article](#)

sponsors



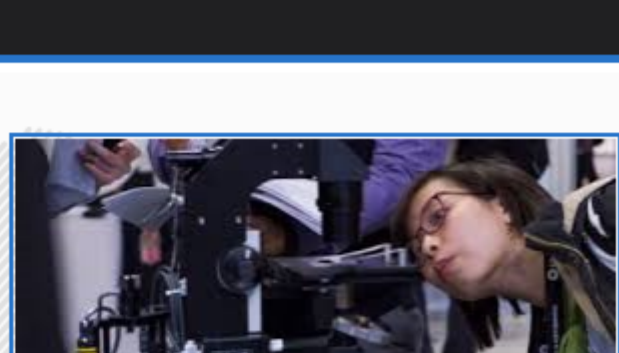
Industry Events

BIOS 2020

February 1-2, 2020 - The Moscone Center - San Francisco
Photonics Media Booth: 8367

BIOS is the largest biophotonics, biomedical optics, and imaging conference in the field. SPIE BIOS 2020 will feature six program tracks: photonic therapeutics and diagnostics; clinical technologies and systems; biomedical spectroscopy, microscopy, and imaging; neurophotonics, neurosurgery, and optogenetics; tissue optics, laser-tissue interaction, and tissue engineering; and nano/biophotonics. Conferences will include: Diagnostic and Therapeutic Applications of Light in Cardiology; Photonics in Dermatology and Plastic Surgery; and more. The 2020 BIOS Expo, which coincides with the SPIE BIOS technical conference, will feature the latest technologies from top companies supplying biomedical research and healthcare solutions.

[More Info](#)



CALL FOR ARTICLES

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *BioPhotonics*, *Vision Spectra*, and *EuroPhotonics*). Please submit an informal 100-word abstract to editorial@Photonics.com, or use our [online submission form](#).

We respect your time and privacy. You are receiving this email because you are a Photonics Media subscriber, and/or a member of our website, Photonics.com. You may use the links below to manage your subscriptions or contact us.

Questions: info@photonics.com

[Unsubscribe](#) | [Subscribe](#) | [Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949

© 1996 - 2020 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office. Reproduction in whole or in part without permission is prohibited.

LAURIN PUBLISHING