

This Week In PHOTONICS

PHOTONICS MEDIA



sponsor

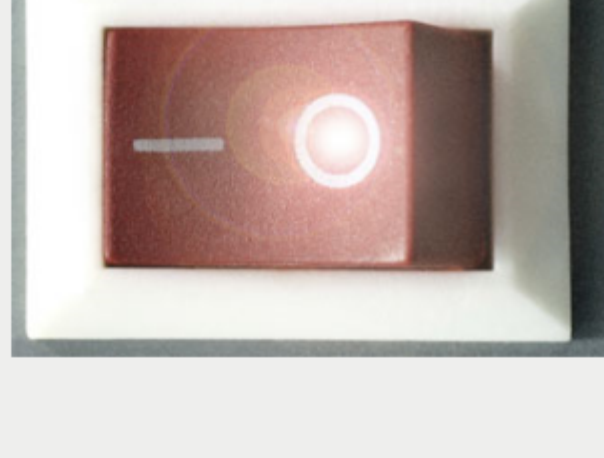
Extending the range of OCT to the visible

VIS-OCT @ 550 NM • HIGH RES • UP TO 250 KHZ • OEM SOLUTIONS

Top Stories

Multidisciplinary Initiative Investigates Light as an Energy Source

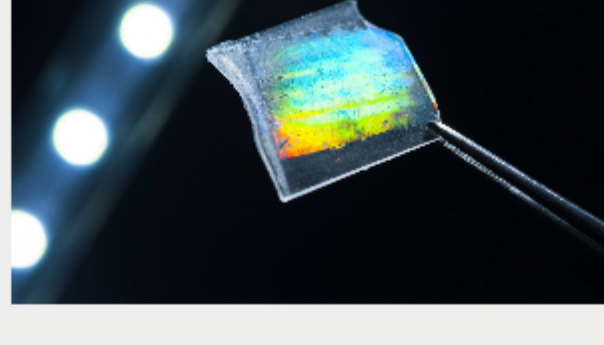
An interdisciplinary group of scientists is embarking on a five-year project to explore the use of photoswitches to develop a next generation of devices that operate mechanically upon exposure to light. The goal of the \$7.5M project, called the Multidisciplinary Research Initiative (MURI), is to develop photomechanical materials that will provide a portable, abundant energy source.



[Read Article](#)

New Technology for Structuring Quartz Glass Like a Polymer

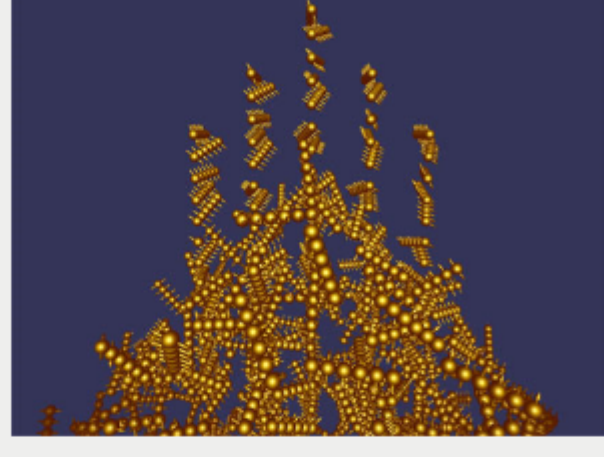
A new technology could make it possible to produce and use high-quality glass materials in place of polymers. The innovation, known as Glassomer, could be used in optical, photonic, medical, and industrial applications.



[Read Article](#)

Quantum Scarring Theory Could Lead Way to Extended Quantum State

An international team of researchers, led by the University of Leeds and in cooperation with the Institute of Science and Technology Austria and the University of Geneva, has provided a theoretical explanation for the unusual behavior of individual atoms that were trapped and manipulated in a recent Harvard-MIT experiment.



[Read Article](#)

Featured Products

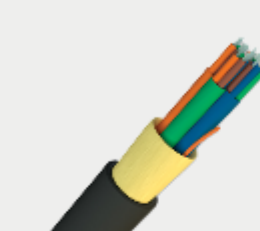


[pco.panda 4.2 back illuminated \(bi\)](#)

PCO-TECH Inc.
German-based sCMOS pioneer PCO has just introduced the latest addition to its camera family: the

pco.panda 4.2 back illuminated (bi). PCO's sCMOS family is the most versatile scientific imaging portfolio on the market. It is renowned for its extremely low readout noise of 1.0 e- med, high resolution of up to 5.5 megapixels...

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



[Micro-Tactical Cable](#)

AFL
AFL's new Micro-Tactical Fiber Optic Cable combines the ruggedness of military tactical cable designs with the ultra-high fiber density of AFL's

micro-cable technology. Designed for rapid deployment in optical networks requiring high mechanical performance specifications, extreme environmental exposure, and...

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



[Broadband Wire-Grid Polarizers](#)

Moxtek Inc.
Moxtek offers a variety of wire-grid polarizers and polarizing

beamsplitters designed for demanding applications. Our polarizers are made from heat tolerant inorganic materials that enable exposure to temperatures that degrade film based polarizers. Our polarizers are designed for narrow and broadband UV-VIS-IR wavelengths.

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



[Patterned Thin-Film Coatings](#)

Deposition Sciences Inc. (DSI)
The drive towards smaller photonic sensors, often integrated on

monolithic substrates with other processing electronics, has created a need for coatings directly on semiconductor wafers, or on miniaturized substrates. Specifically, this allows the integration of optical filters, apertures or other features which modify...

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

JUNE 18-22, 2018

REGISTER TO ATTEND

sme.org/namrc46

namrc46
North American Manufacturing Research Conference

Texas A&M University
College Station, TX

sponsors

pco.

up to **95%**
quantum efficiency

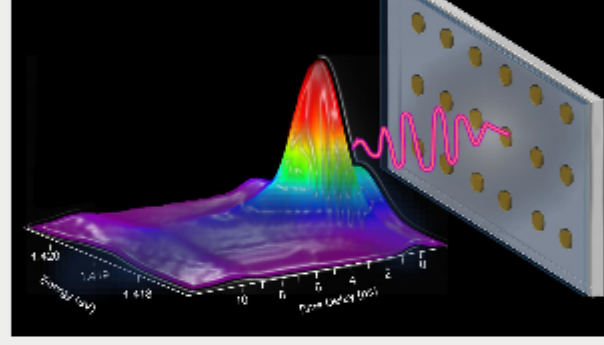
new >>

pco.panda 4.2 bi

More News

Ultrafast, Tunable Nanoparticle-Array Laser Could Speed Optical Switching

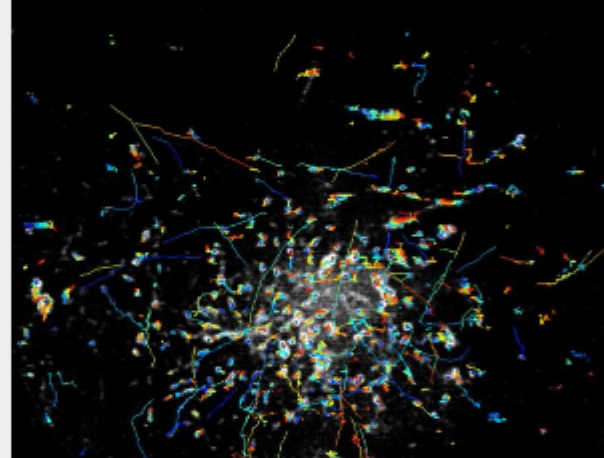
Scientists combined organic dye material with metallic nanostructures (gold nanoparticles) to demonstrate ultrafast lasing with short, rapidly appearing laser pulses. Such ultrafast modulation speeds could be utilized in sensors and optical switches.



[Read Article](#)

NIH Researchers Combine Microscopy Techniques for Faster, Clearer Images

To create sharper images more quickly, researchers blended instant structured illumination microscopy (ISIM) with total internal reflection fluorescence microscopy (TIRFM). The new technique, called instant TIRF-SIM, allows researchers to observe rapidly moving objects about 10 times faster than other microscopes at similar resolution.



[Read Article](#)

More Headlines

New TFT Fabrication Method Could Help Improve Display Technology [Read Article](#)

Quantum-Enhanced Plasmonic Sensing Could Improve Biosensing, Chemical Detection [Read Article](#)

MVTec, Toradex Partnering on Machine Vision [Read Article](#)

PAC Global, CEME to Represent Saki Products in Southern US, Mexico [Read Article](#)

ON Semi Orders Veeco MOCVD System [Read Article](#)

THIS YEAR, GO BEYOND SMART.

SEMICON WEST
BEYOND SMART

JULY 10-12, 2018 | SAN FRANCISCO, CA

REGISTER TODAY

sponsors

CONFERENCE

PHOTONICS NORTH 2018

20th PHOTONICS NORTH CONFERENCE

JOIN US IN CENTRE MONT-ROYAL
JUNE 5-7, 2018

PHOTONICSNORTH.COM

Industry Events

North American Research Conference (NAMRC 46)

June 18-22, 2018 - Texas A&M University - College Station United States

The 46th North American Research Conference (NAMRC 46) is the premier international forum on manufacturing research. This year, more than 800 international researchers and manufacturers are expected to attend and share the latest technological innovations and developments in manufacturing and cyber-physical systems and materials processing. Hosted by Texas A&M University, the 2018 conference will include keynote speakers, expert panels, student poster and presentation competitions, an exhibition of industry partners, an early career forum, industry tours, and awards ceremony.

[More Info](#)

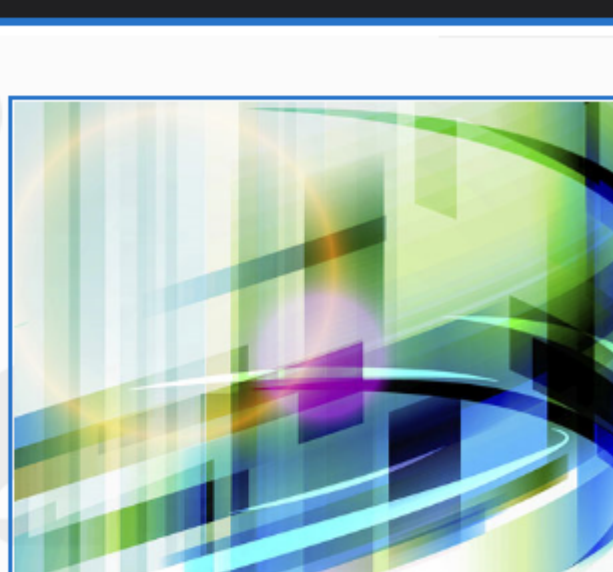


Webinars

Holography for Display: From AR to HUD to 3D

Tue, Jun 12, 2018 1:00 PM - 2:00 PM EDT
Because holograms have the advantage of being thin and light, they are finding application in the fields of augmented reality and head-up display, where constraints on the size and weight of the optics exist. Holograms can also be used for integral imaging-based 3D display, lensless projection, and lidar beam steering. Professor Pierre-Alexandre Blanche from the University of Arizona will discuss the advantages of holography over other techniques. This webinar is sponsored by RPMC Lasers Inc. and UnikLasers Ltd.

[Register Now](#)



PHOTONICS buyers' guide • EXHIBITOR SPOTLIGHT

Spectrum Scientific (SSI) manufactures the highest precision holographic gratings, replicated optical surfaces and grating-based optical systems available. With a presence in Japan, Australia, the UK, and more, SSI has become a global supplier of replicated optics and gratings. SSI offers rapid prototypes with high fidelity replication services.



[Learn more about Spectrum Scientific Inc. SSI Optics](#)

[Visit Website](#)

Looking for Spectroscopy products? Search PhotonicsBuyersGuide.com, or browse these product categories:

[Ultraviolet Spectrometers](#)

[Raman Spectrometer Laser Systems](#)

[Visible Spectrometers](#)

[Fiber Optic Spectrometers](#)

[Spectroscopic Accessories and Supplies](#)

[Near-Infrared Spectrometers](#)



CALL FOR ARTICLES!

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

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 - 2018 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.