# This Week In











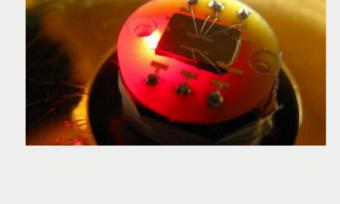


Learn how

# Agarwal Group Puts Spin on Photons LIGHT MATTERS BROADCAST: The University of Pennsylvania's

### Agarwal Group, headed by professor Ritesh Agarwal, seeks to understand how light interacts with small-scale nanostructures. The

group then uses that understanding to engineer useful and innovative optoelectronic devices. One area it is focusing on is photon spintronics.



Photons in IR







An international research team has constructed a qubit that transmits information on its status at a wavelength of 1100 nm. The researchers

# wavelengths of 1300 to 1500 nm, which is close to those used by telecom providers.

said it is likely that the approach they used could be tuned to

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New Approach to Coherent Extreme-UV Emissions Could

An IBS research team produced coherent extreme-UV emission via

applications in high-resolution imaging, lithography, and ultrafast



frustrated tunneling ionization (FTI). The new way to generate extreme-UV emissions using intense laser pulses promises to find

spectroscopy.

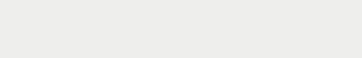
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Be Used in Spectroscopy, Imaging





IDS Imaging Development

Systems GmbH

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Ensenso X is a modular 3D camera system offered by IDS

**Photodiodes** 

Technology offer direct-coupled performance in a space

solderable, surface-mountable assembly with a high-speed

saving ceramic package. Part number FD80S8-F8 is a

**Featured Products** Ensenso X: 3D Vision System Now With 5 MP Models



or multi-mode fiber.

Fermionics Opto-Technology Surface-mount InGaAs photodiode assemblies from Fermionics Opto-

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InGaAs photodiode chip coupled directly to a single-mode Visit Website Request Info

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defects are also magnified.

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AR/VR Lens: Measure Displays

A Smart Cloud-Al Handheld

CloudMinds Technology Inc.

The Cloudminds XI™ is the world's

Raman Spectrometer

first cloud AI based handheld Raman spectrometer with

in Headset

images are magnified to fill a user's field of view, display

Radiant Vision Systems, Test & Measurement Displays viewed near to the eye, such as those in AR/VR devices, create immersive virtual experiences. However, as display

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VISION IN THE 3<sup>RD</sup> DIMENSION Ensenso X 3D cameras with 5 MP sensors

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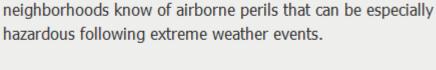
optimization of nanophotonic structures for biosensing, bioimaging,

Rice, Baylor, TFA Collaborate for Drone Air Monitoring Rice University researchers, in collaboration with Baylor College of





Medicine and technology nonprofit Technology For All (TFA), are developing a fleet of autonomous aerial drones that coordinate with each other to detect, track, and model the environment to let

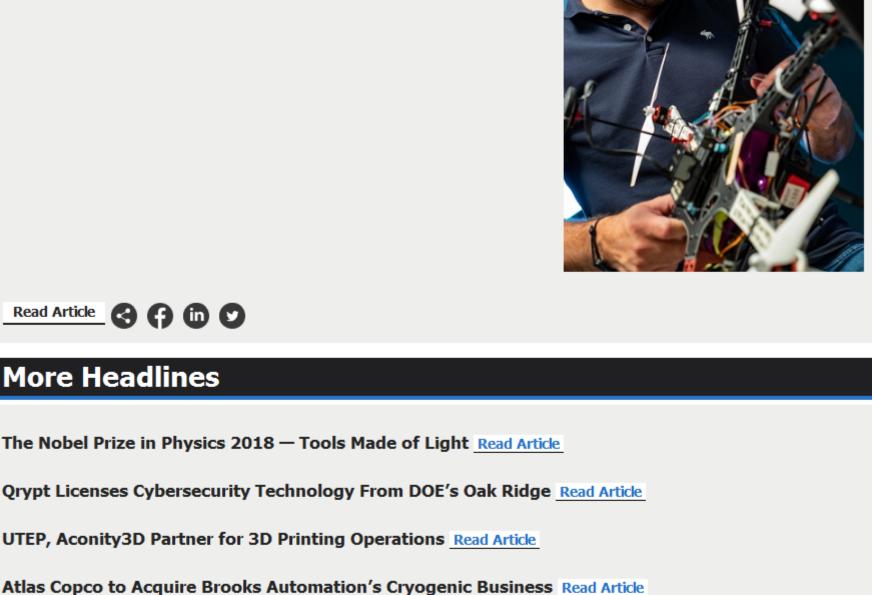


and photon upconversion applications.





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Source Photonics Implements R&D, Investment for Transceiver Technology Read Article

Laser Taiwan 2018

Taipei City Taiwan



**More Headlines** 



VISIONARY

06 - 08 November 2018 Messe Stuttgart, Germany

**Industry Events** 

October 17-19, 2018 - Taipei Nangang Exhibition Center, Hall 1 -Since it was first held in 2013, Laser Taiwan has become the largest laser exhibition in Taiwan. The exhibition attracts over 10,000 buyers and hundreds of exhibitors and has earned great acclaim in the laser

sponsors

More Info

**Webinars Protective Coatings Extend Optics Lifetimes** Wed, Oct 10, 2018 1:00 PM - 2:00 PM EDT From military airborne applications to harsh industrial uses, optics can be subjected to considerable environmental abuse over their expected lifetime. That lifetime can be extended by the use of protective

coatings. In this one-half hour webinar, you will learn about the

industry. This year, Laser Taiwan will showcase laser process

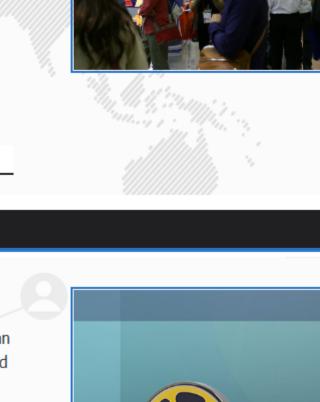
manufacturing, and scientific research. A Laser Industry Application Seminar will be held, during which experts, scholars, buyers, and associations related to the field will share the newest techniques and

applications, laser sources, optics, biomaterials, additive

knowledge about laser applications.

challenges to the integrity of optics due to abrasion, corrosion, oxidation, and other phenomena. The speaker will also provide an overview of the types of protective coatings that are used and their Register Now

Michael.Wheeler@Photonics.com, or use our online submission form.



deposition technologies, and he will tie the various coating types to the environmental challenges they are intended to address. The webinar will cover environmental testing and durability, and touch on other coatings that have functional properties besides protection. This webinar is presented by Deposition Sciences, Inc. CALL FOR ARTICLES! Photonics Media is currently seeking technical feature articles on a variety of topics for publication in

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