



EOPC IS THE INDUSTRY LEADER IN STANDARD, CUSTOM AND OEM RESONANT SCANNERS AND TUNING FORK CHOPPERS FOR THE PHOTONICS INDUSTRY.

sponsor



LIGHT EXCHANGE

Follow Photonics Media on Facebook and Twitter



Secure Quantum Code Sent from Aircraft to Ground Station

LMU Munich physicists succeeded in optically transmitting quantum information between a ground station and a plane in flight, marking the first time that quantum cryptography was used for communication with a mobile transmitter – in this case, a laser-based wireless communications system. The challenge was to ensure that the single photons could be precisely directed at the ground telescope regardless of mechanical vibrations and air turbulence. "With the aid of rapidly movable mirrors, a targeting precision of less than 3 meters over a distance of 20 kilometers was achieved," said project co-leader Florian Moll.

[Read Article >>](#)



Solid-State Qubit Photon Logic Gate Realized

An ultrafast logic gate was performed on a photon using a semiconductor quantum dot by researchers at the Joint Quantum Institute and the University of Maryland's Department of Electrical and Computer Engineering.

[Read Article >>](#)



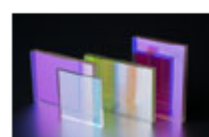
Open Photonics, VTT to Commercialize Imaging Tech

The photonic technology acceleration company partnered with the VTT Technical Research Center of Finland to commercialize VTT's Fabry-Perot visible and infrared spectroscopy and spectral imaging technologies.

[Read Article >>](#)



Products on PhotonicsBuyersGuide.com



Ultra-Flat Dichroic & Polychroic Filters
Alluxa



Telecentric Lenses for Machine Vision Technology
China Daheng Group, Inc.



Bobcat-640 Smallest SWIR GigE Camera
Xenics



Optical Liquids
Cargille Laboratories

More Articles on Photonics.com

Ophir Photonics Opens New Office in Germany

The laser measurement equipment maker opened a new office in Darmstadt and hired former Synrad executive Christian Dini to serve as its general manager.

[Read Article >>](#)



Atoms Hollowed by Laser Form Novel Plasma

A highly unusual plasma composed of hollow atoms was created using one of the world's most powerful lasers. The surprising result showed that a little-explored region of physics is now accessible through the unprecedented intensities being reached at some laser facilities.

[Read Article >>](#)



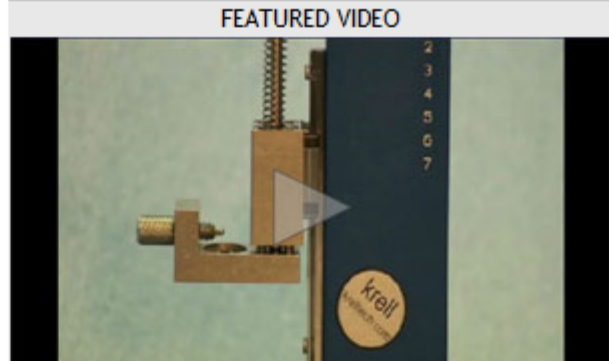
Edmund Optics Promotes Mulliner to CFO

Executive Vice President of Finance Jason Mulliner was promoted to chief financial officer by the optical components manufacturer.

[Read Article >>](#)

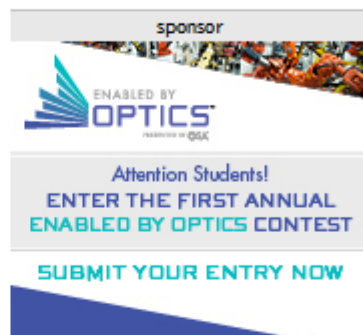


In this edition of the industry's premier weekly newscast: Bulk silicon emits visible light, 3-D printable optics are open sourced, a European project aims to shrink OCT light engines, a logic gate is formed from qubits and photons, and imaging technology could lower the death rate from heart ailments. Hosted by Photonics Media's Laura Marshall and Melinda Rose.



Rev Fiber Optic Micro-Polisher

Rev is a highly cost-effective system that provides the ability to polish optical connectors and bare fibers with Telcordia compliance. Interchangeable workholders support all industry standard connectors and specialty components. Rev is ideal for laboratory and R&D applications, as well as field termination and cable assembly repair.



PHOTONICS buyers' guide

Looking for **Imaging and sensing products**? Search the Photonics Buyers' Guide or Browse these product categories:

- Linear Image Sensors
- Microscope Illumination Systems
- Near-Infrared Cameras
- Photodiodes
- Picosecond Cameras
- Thermal-Infrared Cameras

2013 Defense Security+ Sensing

62 Scientific conferences on optics, imaging, and sensing

Call for Papers
Submit your abstract by 22 October 2012
spie.org/aboutds

Conferences & Courses: 29 April to 3 May 2013
Exhibition: 30 April to 2 May 2013
Location: Baltimore Convention Center, Baltimore, Maryland, USA

Register Today

LASER World of PHOTONICS

LIGHT APPLIED 40 YEARS

MAY 13 - 16, 2013
MUNICH, GERMANY

White Papers

Download the latest photonics white papers on Photonics.com

Read the industry's **LEADING** magazines

Because staying informed has never been so critical.

Photonics news from *your* industry and *your* part of the world.

Hollow Silica Waveguides for Mid-Infrared Power Transmission and Spectroscopy
Polymicro Technologies

Applications in the Mid-Infrared often require a flexible conduit for transmitting light from source to destination. Hollow Silica Waveguides with an internal Ag/AgI dielectric reflective layer optimized for maximum transmission between 2.5µm and 15µm have been used successfully for applications such as Erbium YAG and CO2 laser power transmission for industrial and medical applications. In addition the waveguides are used as long path flow cells for IR spectroscopy. In the following paper, the physical structure of the waveguides is detailed. Guidelines for handling and optical coupling are discussed. Typical spectral attenuation is shown for example waveguides.

[DOWNLOAD WHITE PAPER >>](#)

Solar Cells Derived from Trees

Recyclable, sustainable and renewable photovoltaics can be made using nanocellulose substrates derived from trees, reported researchers at Georgia Institute of Technology and Purdue University.

[Read Article >>](#)



Moshar Joins Asylum Research Sales Team

Nine-year company employee Amir Moshar, who most recently worked as an applications scientist and led AFM technical support in the UK, joined the company's West Coast technical sales team.

[Read Article >>](#)



AIA Appoints Global Ambassadors

Kyle Voosen and Steve Mott are now global ambassadors under the trade group's program to support vision and imaging industry growth.

[Read Article >>](#)



PROMOTION

Join Us for a **Free Webinar**
2013 Webinar Series - Expert Briefings

Industrial Imaging and Vision
Wednesday, April 10, 2013 - 1 p.m. EDT/10 a.m. PDT

In this webinar, hosted by Photonics Media, Clay Flannigan, manager of Robotics and Automation Engineering at the Southwest Research Institute, will present "3-D Vision for Industrial Robot Guidance" and Alex Shikany, director of market analysis for the Association for Advancing Automation, will provide a "2013 North American Machine Vision Market Update." Space is limited - sign up now!

REGISTER NOW

SPIE Defense, Security and Sensing 2013 - April 29 - May 3, 2013 - Baltimore, MD
Visit Photonics Media at Booth 1208

SPIE Defense, Security and Sensing, the industry's leading event for the latest technologies and equipment in sensing, imaging, optics and industrial applications, features 2325 technical presentations, 500 exhibitors and 55 short courses. Industry events will include a symposium-wide plenary presentation delivered by DARPA director Arati Prabhakar, a National Security Sensor Challenges special session, a workshop on early stage technology commercialization, panel discussions and a poster reception.

The 2013 event will feature more than 2325 presentations under 55 co-located conferences covering the latest developments in 12 different program tracks, including imaging and sensing, laser sensors and systems, sensor data and information exploitation, emerging technologies, and unmanned, robotic and layered systems.

[MORE INFO >>](#)

Unsubscribe: <http://www.photonics.com/Newsletter/EmailUnsubscribe.aspx>
Questions: pr@photonics.com

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

LIGHT EXCHANGE

Follow Photonics Media on Facebook and Twitter

