

This Week In PHOTONICS

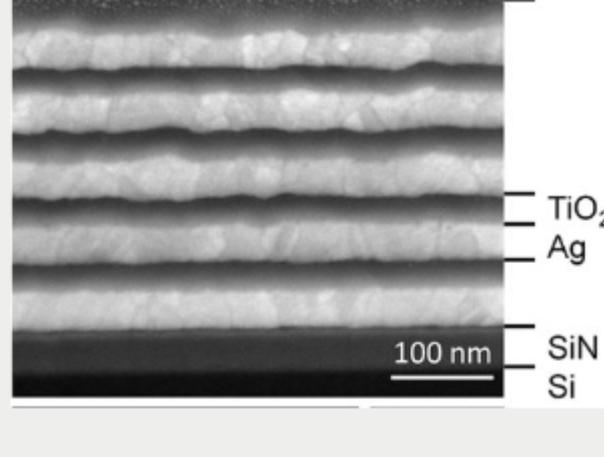
PHOTONICS MEDIA



Top Stories

Ag/TiO₂ Flat Lens Operates in UV

A flat optical lens could help reduce the size of computer hard drives and enable further miniaturization of microscopes and other technologies. The lens, comprising thin layers of silver and titanium dioxide, offers a larger field of view and a shorter working distance than traditional curved lenses, allowing close placement to an object of interest. Researchers at FOM Institute AMOLF created the thin layers of silver and titanium dioxide using physical vapor deposition, and cited a major challenge to be optimizing the layer thicknesses with subnanometer precision.



[Read Article](#)

Embry-Riddle Aeronautical Begins STEM Center Construction

Construction has begun on a 52,500-ft² STEM (Science, Technology, Engineering and Mathematics) Education Center at Embry-Riddle Aeronautical University's Prescott, Ariz., campus, set for completion in fall of 2017. The building will contain classrooms, meeting rooms, a multimedia center and a planetarium dome for the campus' astronomical observatory. It will also house 20 labs for faculty and students. Robotics labs will support the fastest-growing program on campus, mechanical engineering, which launched in 2006, with biology, chemistry and physics labs to enhance undergraduate programs in biology and pre-med.



[Read Article](#)

Nanoscribe Holds US User Meeting

Nanoscribe GmbH, a 3D printer manufacturer, held its first U.S. user meeting — a two-day seminar — at Harvard University. In collaboration with the university's Center for Nanoscale Systems (CNS), which houses a Nanoscribe laser lithography system, attendees were shown the latest software and hardware developments, along with areas of application for the Photonic Professional GT 3D printer.



[Read Article](#)

Custom, Flat-Surfaced Parallel & Wedged Optics

Wafers, Windows, Optical Flats and Glass Substrates [\(click to learn more!\)](#)

Our World is flat™
www.sydor.com

sponsors

Advanced Energy
for Mission-Critical Technology

HIGH VOLTAGE POWER
UltraVolt™ and HiTek Power™
Standard Modules and Racks | Custom Systems

[FIND A PRODUCT](#)

Satellite Mission Tests Quantum Light Source

A technology that carries a quantum light source into space may be able to preserve the quantum properties of light as it travels through an optical link from space to Earth. It could provide the basis for establishing a secure global quantum network in space that can reach from one end of Earth to the other. Researchers at the National University of Singapore and University of Strathclyde, U.K., built a space-qualified light source that could fit on a nanosatellite by redesigning a tabletop quantum setup to be small and robust enough to fly inside a satellite the size of a shoebox and weighing just 1.65 kg.



[Read Article](#)

4-H Camps Receive STEM Grant

The University of Tennessee Extension, along with programs in Colorado, Kentucky and Missouri, has been awarded a \$10,000 sponsorship from internet provider HughesNet LLC to implement a STEM (science, technology, engineering and mathematics) program during its Junior 4-H Camp.

The camps will produce the STEM program through a series of hands-on stations, including zip-lining energy, wildlife ecology and the science of archery.



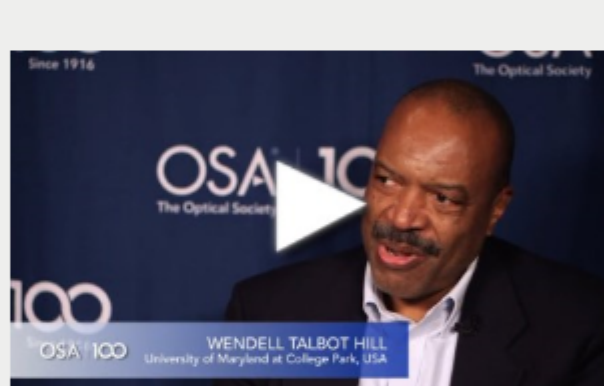
[Read Article](#)

Featured Video

The Optical Society (OSA) - Wendell Talbot Hill, University of Maryland

Wendell Talbot Hill, University of Maryland, College Park, USA, shares his fascination with lasers.

[Watch Now](#)



More Headlines

[FDA Approves Implantable Vision-Correcting Lens](#) [Read Article](#)

[LightPath Receives \\$200K from NSF/SBIR](#) [Read Article](#)

[LED Exposure Impacts Milk Quality More Than Any Other Factor](#) [Read Article](#)

[Nanoplus Given Green Light for Automotive Alcohol Sensor](#) [Read Article](#)

[Imec Opens Florida Design Center for PICs, Expands Foundry Services](#) [Read Article](#)

Featured Products

Fiber Optic Oxygen Sensors

SpectrEcology, LLC

Our oxygen sensors use the quenching of fluorescence by collision of molecular oxygen with a fluorophore that is trapped in an oxygen permeable sol gel or polymer.

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

High Resolution Lenses with Focus Lock

Universe Kogaku (America), Inc.

Universe Kogaku designs and manufactures high resolution lenses with locking focus to help maintain vision system calibration.

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

Graded Reflectivity Mirrors (GRM)-Gaussian Mirrors

BMV Optical Technologies Inc.

Graded Reflectivity Mirrors (GRM), also known as Gaussian mirrors, are used as cavity optics within unstable laser resonators.

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

Y1000L Laser Diode Test System

Yelo Limited

The Y1000L is a universal tester capable of burn-in aging and life-time testing of multiple photonic devices at the same time.

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

sponsors

ECOC 2016
DÜSSELDORF
19-21 SEPTEMBER

VISIT US AT
ECOC EXHIBITION 2016 IN DÜSSELDORF

THE VISION TECHNOLOGY

World's leading trade fair for machine vision
08 - 10 November 2016
Messe Stuttgart

Industry Events

IMTS 2016

September 12-17, 2016 - McCormick Place - Chicago United States
Photonics Media Booth: N-6183

The International Manufacturing Technology Show - IMTS 2016 - will welcome more than 114,000 industrial decision-makers, looking to find ways to cut costs and get more work. IMTS, the conference where technology and business connect, brings together experts from the industry to give you the most useful and up-to-date technical information available. Gain insight into improving your production and operations; learn from professionals with solutions to your manufacturing challenges; network with peers. The conference program will focus on five topics: Process Innovations, Alternative Manufacturing, Plant Operations, Automation, and Quality. Everyone involved in manufacturing will benefit from experiencing the vast array of technologies available at IMTS: Executives building a business, decision makers involved in manufacturing equipment purchases, engineers who identify equipment needs, plant superintendents and operators who use the equipment and know it better than anyone else.

[More Info](#)

PHOTONICS buyers' guide®

Looking for Lasers and Laser Systems products? Search [PhotonicsBuyersGuide.com](#), or browse these product categories:

[Laser Safety Eyewear](#)

[Beamsplitters](#)

[Femtosecond Lasers](#)

[Polarizing Beamsplitters](#)

[Ultrafast Pulsed Lasers](#)

[Laser Diode Arrays](#)



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 - 2017 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.