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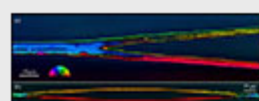
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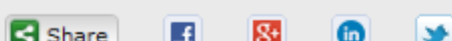
Thursday, June 11, 2015

## Ultrafast Lasers Create 3-D Crystal Waveguides in Glass



Femtosecond laser pulses can create complex, single-crystal waveguides inside glass — a discovery that could enable photonic integrated circuits (PICs) that are smaller, cheaper, more energy efficient and more reliable than current networks that use discrete optoelectronic components.

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## PHOTONICS MEDIA

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### FEATURED VIDEO



**TOM LAUX**  
VICE PRESIDENT AT ASC

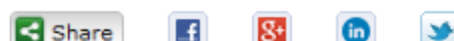
### Advanced Scientific Concepts – New Peregrine Camera

Tom Laux of Advanced Scientific Concepts talks about their new Peregrine Camera.

## Thomas Merk to Become CEO of RoFin-Sinar Next Month

Merk has been chief operating officer of RoFin's Laser Micro Group since 2005 and its laser marking business since 2006, and has been a managing director of RoFin-Baasel Lasertechnik GmbH & Co. KG in Germany since 2000.

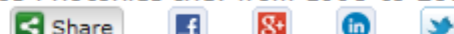
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## Thomas Fehn Named CEO at SPI Lasers

For the last nine years, Fehn has been executive vice president of Jenoptik AG of Germany. He also served in a number of senior positions with Linos Photonics Inc. from 1998 to 2005.

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### Featured Products



#### OptiMAG X-Ray Source

MOXTEK Inc. The 50kV OptiMAG 300/800 monoblock x-ray source is a small, low power device used for a variety of applications including handheld, portable, and bench top instrumentation.

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#### Fiber Optic Switches

JGR Optics JGR Optics' SX4 fiber optic switches are benchtop instruments ideal for manufacturing production testing. A single common input connects with multiple output channels.

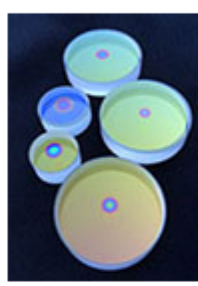
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#### Optical Wedges

A.R.W. Optical Corp. ARW Optical Corporation manufactures custom, standard and OEM optical wedges for the UV to IR region. Provides rapid prototyping through volume production for all industries.

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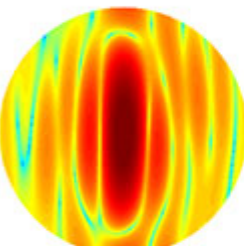
#### (GRM) Gaussian Mirrors

BMV Optical Technologies Graded Reflectivity Mirrors (GRM) are used as cavity optics within unstable laser resonators. Often used with Nd:YAG (1064nm) lasers, they can also be designed for use in other laser systems.

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### More Articles on Photonics.com

## Holography, Machine Learning Rapidly ID Bacteria



"Employing laser holographic techniques, we achieved rapid and label-free identification of bacterial species at the single-bacterium level with a single-shot measurement," said KAIST professor YongKeun Park. "This means the present method can be utilized as a prescreening test for point-of-care bacterial diagnosis for various applications including medicine and food hygiene."

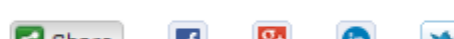
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## Lockheed Wins \$24M in Navy Contracts for Laser-Guided Training Rounds

ELGTRs emulate the flight characteristics of the Paveway II laser-guided weapon systems and present pilots with the same information they would see in an actual mission. They are used with F/A-18, AV-8B, F-16 and other aircraft.

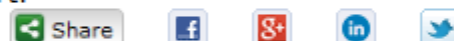
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## Frank Weiss Named General Manager of Gooch & Housego's Orlando Facility

Previously Weiss was vice president of advanced systems at Emcore Corp., with business responsibility for R&D, operations and marketing of advanced systems products, a product line consisting of microwave and RF photonics, fiber optic gyroscopes, terahertz imaging and analysis technology, and fiber optic video transport.

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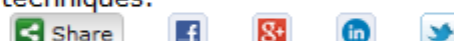
This week on *Light Matters*:

**We zoom in on a smarter way to screen for esophageal cancer.**

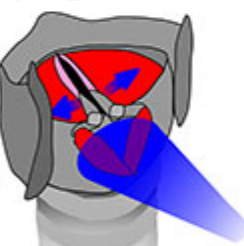
## Tunable Laser Diode Taps NIR for Data Transmission

Its optical gain medium is made up of high-quality InAs quantum dots grown with the sandwiched subnano separator technique. The wavelength-tunable filter was constructed with ring resonators fabricated using silicon photonics techniques.

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## Optogenetics Offers Treatment for Laryngeal Paralysis



"Depending on where we point the light beam, we can also stimulate individual muscle groups – exactly the same way the body does it through the nerves," said Dr. Tobias Bruegmann of the University of Bonn.

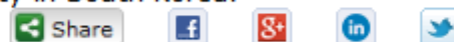
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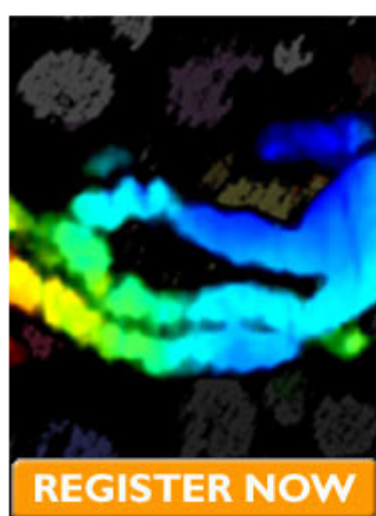
## Quantum Dots Used to Create 'Electronic Tattoos'

The film can be applied to curved surfaces and can be stretched or wrinkled, making it suitable for application on human skin. The technology creates new possibilities for integrating full-color HD displays in wearable electronics, according to researchers from the Institute for Basic Science and Seoul National University in South Korea.

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### WEBINAR



## Self-Assembled Porphyrin Nanoparticles for Biophotonic Imaging and Light-Controlled Drug Delivery

Thu, Jun 18, 2015 1:00 PM - 2:00 PM EDT

FREE WEBINAR



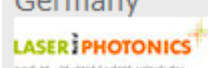
Jonathan Lovell

This talk will address two recently reported nanoscale systems, both involving high-density porphyrin constructs. First, porphyrin nanovesicles have been developed that can release drugs in response to near-infrared (NIR) laser irradiation, leading to enhanced drug deposition in irradiated tumors. Second, a family of highly light-absorbing nanoparticles have been developed for safe and real-time gastrointestinal photoacoustic imaging following oral administration to mice.

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### Industry Events

## Laser World of Photonics 2015 - June 22 to 25, 2015 · Munich Trade Fair Center, Germany



Because of the increasing importance of the key technology photonics, the show will expand by one hall to 55,000 square meters. Taking place in parallel at the ground of Messe Munich is the international scientific elite's get-together at the World of Photonics Congress.

The show will have three focus topics for all facets of photonics: laser systems for manufacturing, biophotonics and medical technology, and the new highlight, imaging. Trends are additive manufacturing, 3-D printing, ultrashort-pulse lasers and 3-D x-ray microscopy.

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- [Excimer Lasers](#)
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- [Tunable External Cavity Diode Lasers](#)



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