

# This Week In PHOTONICS

PHOTONICS MEDIA



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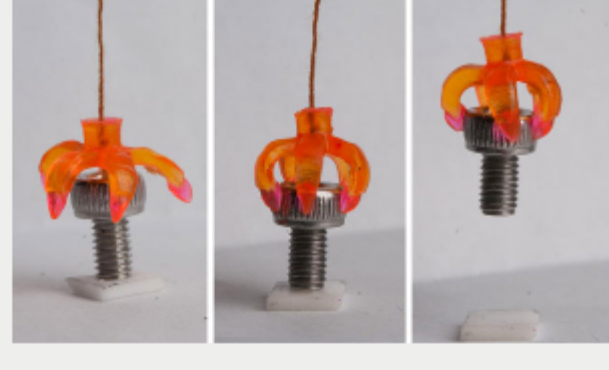
October 24-26 | San Francisco, CA  
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## Top Stories

### Printing Shape-Changing 3D Structures With Light

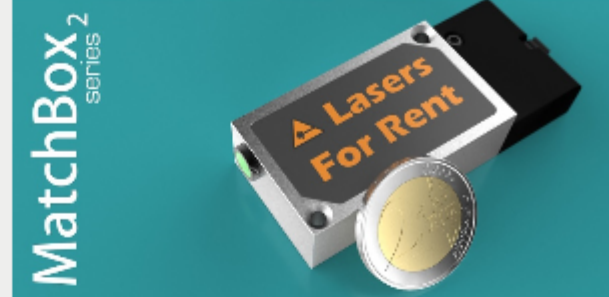
A high-resolution 3D printing process that uses light from a projector to print patterns on shape-memory polymers (SMPs) was used to fabricate structures that can morph back to their original shape quickly. The process, called microstereolithography, could be useful for creating structures for a variety of applications, from biomedical devices to photovoltaic solar cells.



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### Integrated Optics Offering Laser Rental

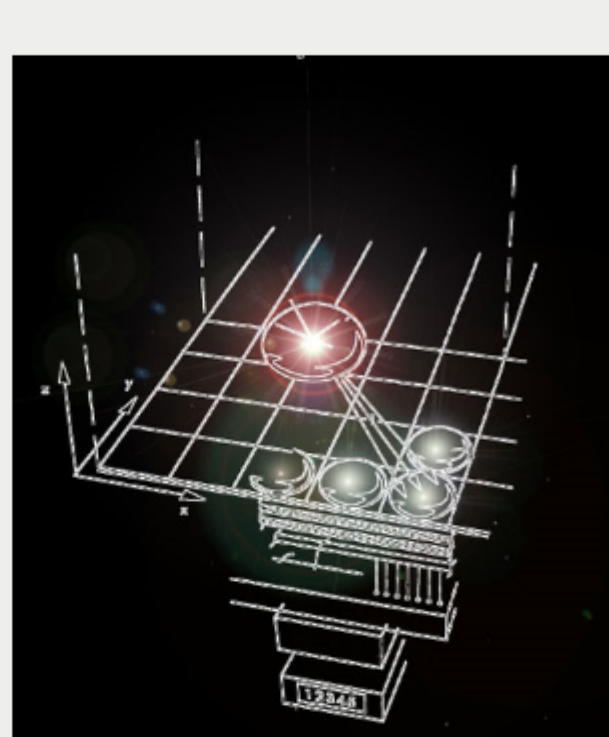
Laser manufacturer Integrated Optics UAB has announced continuous-wave laser rental. "We have gained enough trust in our new products based on very positive OEM and scientific customer evaluation, now we decided to offer these lasers for rent," said Evaldas Pabreza, CEO of Integrated Optics.



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### Nano-Light Announces Flat Camera Patent

Nano-Light Technologies LLC has announced its U.S. patent for the technology of its nanoCam high-definition MP camera that can be flattened to the thickness of a postage stamp. The camera replaces the external lens to focus the image and collapses the entire apparatus. Each tiny lens rests over a sensor layer of a number of pixels depending on the limit of the lens.



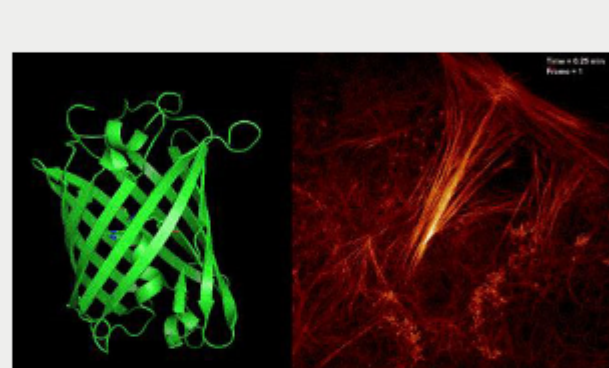
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### Novel Monomer Enhances Resolution in Live-Cell Imaging

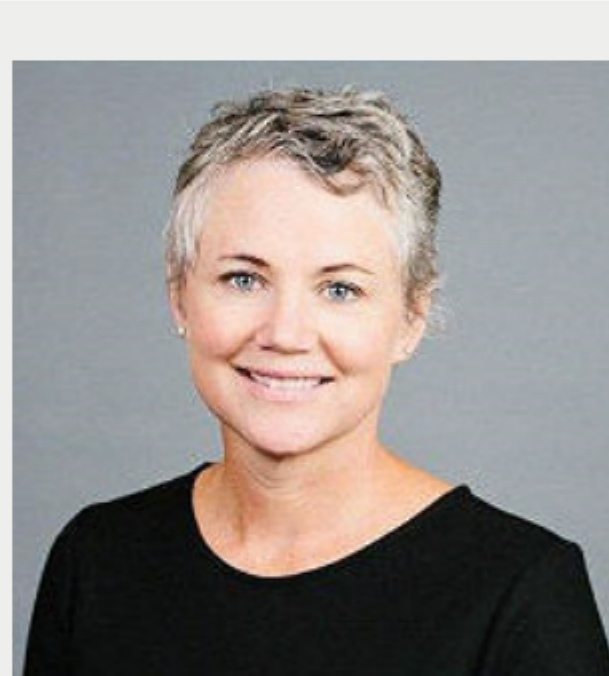
A novel protein with a fluorescent probe for imaging live cells could improve live-cell superresolution (SR) imaging. While the use of reversibly switchable fluorescent proteins (RSFPs) reduces illumination intensity and thus enables SR imaging of live cells, existing RSFPs are limited by their small number of switching cycles, low fluorescence signal and poor contrast.



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### Flaminia Joins Mellanox as General Counsel

Interconnect data solutions provider Mellanox Technologies Ltd. has appointed Alinka Flaminia as its senior vice president and general counsel, assuming responsibility for the company's global legal affairs, public policy interests and compliance operations.



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## More Headlines

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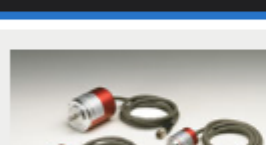
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## Featured Products



### Optical Digital Laser Rotary Encoder

Canon U.S.A., Inc., Industrial Products Div.

Canon R-1 series Laser Rotary Encoder offer high performance (high resolution, accuracy, and precision) in a very compact 36mm diameter body. All models utilize semiconductor laser diode, high precision grating disk, and diffraction and interference position sensing methodology.

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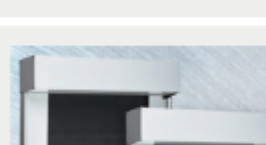


### Nano-MTA Mirror Scan Nanopositioner

Mad City Labs Inc.

The Nano-MTA series of closed loop mirror scanning nanopositioners is ideal for applications where extreme repeatability and accuracy in beam steering is required. Due to our proprietary PicoQ® sensors, these nanopositioners have ultra-low position noise, high stability, and sub-nanoradian precision.

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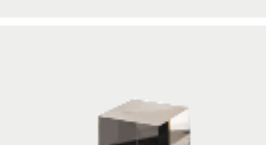


### Window Protection Shades and Blocks

Kentek Corp.

Kentek's laser safe window protection shades and blocks are made-to-measure for virtually every shape of window. Shades come on clutch-driven roller assemblies and will retract quickly and neatly. Kentek's removable window blocks can be mounted to surfaces with supplied Velcro®, magnets, grommets, or snaps.

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### Moxtek ICE Cube™ Polarizing Beamsplitter

MOXTEK Inc.

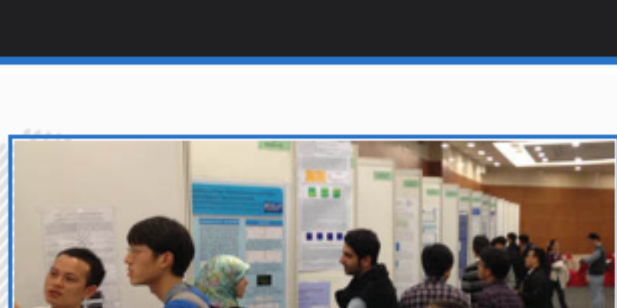
Moxtek ICE Cube™ polarizing beamsplitters (PBS) allow optical engineers to design smaller optical systems with excellent surface uniformity and contrast.

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## Industry Events

### Photonics Asia 2016

October 12-14, 2016 - Beijing International Convention Center - Beijing China  
 Plan to attend Asia's premier conference for optics and photonics technologies. This event showcases advancements in nanophotonics, biophotonics, lasers, optical design, plasmonics, sensors, optoelectronics, infrared/terahertz, and more. Exhibits showcase the latest in optics and cutting-edge technologies, applications, product announcements and demonstrations. Photonics Asia also includes a plenary session with visionary speakers, parallel technical sessions, a social banquet, and an interactive poster session/reception.



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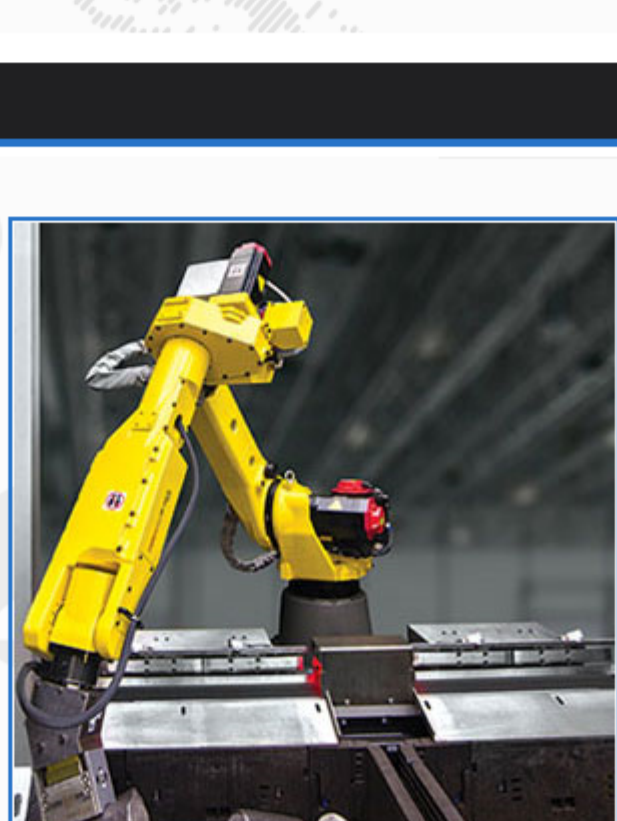
## Webinars

### Vision Guided Robotics

Thu, Oct 6, 2016 1:00 PM - 2:00 PM EDT

In this free webinar presenter David Bruce of FANUC America will discuss the two subsets of VGR, 2D and 3D, and go over the proper techniques for selecting and implementing a vision guidance system that includes the latest advances in the technology. Bruce will discuss the steps required to set up and execute 2D and 3D VGR, including 2D pick and place and 3D bin picking. He will review the advantages of using virtual VGR in the engineering phase of large and small automation projects, the different software packages that can be used for VGR, and the trade-offs to consider when selecting a VGR system. David Bruce has been with FANUC America Corporation (FAC) since 1997. He is currently an engineering manager for a group of engineers that supports FANUC integrators and end users with iRvision applications.

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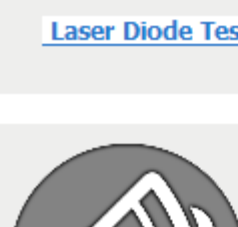
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