



sponsor



LightMachinery
Excellence in Lasers and Optics

A better excimer laser. The IPEX-700.

www.lightmachinery.com



PHOTONICS.com

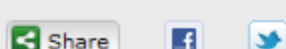
Thursday, December 4, 2014

Blu-ray Disc Pattern 'Nearly Optimized' for Solar Absorption



The pattern of information written on a Blu-ray disc, regardless of what it is, could lead to better performing solar cells. Researchers at Northwestern University have found that the binary codes of such discs create a quasi-random arrangement of patterns that are nearly optimized for photon management over the solar spectrum.

[Read Article >>](#)



EV Group Opens Nanoimprint Lithography Center

EV Group has established the NILPhotonics Competence Center to assist customers with nanoimprint lithography tools for photonics applications.

[Read Article >>](#)



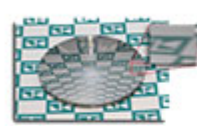
DIY Microscope Boosts Efficiency and Cuts Costs

A Brunel University London student has developed a DIY microscope that will ultimately cut research costs and save time in the lab.

[Read Article >>](#)



Products on PhotonicsBuyersGuide.com



Germanium Fresnel Lenses

RHK Japan
NTKJ's has developed Germanium Fresnel lenses for IR application using their micro fabrication technology. The Germanium Fresnel lens was developed in order to reduce weight and thickness of the conventional Germanium lenses.

[More info >>](#)



Optical Assemblies

Jenoptik Optical Systems LLC
Delivery of tested precision optical assemblies is the focus of Jenoptik Optical Systems' facility in Jupiter, FL. OEM serial production accounts for the majority of our shipments.

[More info >>](#)



Mini and Micro Lens Elements

Argyle International
Argyle International has added a new series of miniature and micro lens elements to its diverse line of custom optics. Lens designs range from single and double convex, single and double concave, meniscus, rod lenses, and rod doublets and triplets.

[More info >>](#)



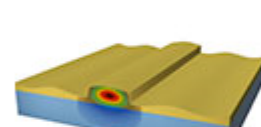
Ultra Precision Machining Center

Schneider Optical Machines
The UPC 400 represents a new, flexible process center for fabricating ultra-precise freeform surfaces. With onboard fast tool, milling, and optical metrology, the UPC 400 integrates all essential processes onto a single machine platform.

[More info >>](#)

More Articles on Photonics.com

Chip Puts Sound and Light on the Same Wavelength



A new microchip generates both light waves and ultrahigh-frequency sound waves, and forces them to interact, prompting extreme strong interaction between such waves.

[Read Article >>](#)



Spectroscopic Test Improves Photonic Chips

A technique called ultrafast photomodulation spectroscopy (UPMS) could help not only with testing and characterization of photonic chips, but in making them more reliable and robust.

[Read Article >>](#)



Northeastern, PHI Establish Research Program

A collaboration between Northeastern University and Phase Holographic Imaging (PHI) of Sweden will establish a Holographic Imaging Cytometry Program of Excellence.

[Read Article >>](#)



In this edition of the industry's **premier weekly newscast**: Interviews with several researchers will offer an in-depth look at the emerging field of optical wireless communications, called Li-Fi, where standard LED fixtures work double duty as wireless Internet hotspots and more.

Technique Simplifies Laser Linewidth Narrowing

A new method for narrowing laser linewidths, based on Rayleigh backscattering, could enable precision sensors in portable forms.

[Read Article >>](#)



Coating Reflects Sunlight, Radiates Heat to Cool Buildings



A thin-film coating, developed by a team at Stanford University, has the potential to cool buildings by simultaneously radiating heat from inside and reflecting sunlight.

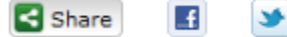
[Read Article >>](#)



Optical Surfaces to Supply Beam Reducers for European Research Center

Optical Surfaces Ltd. will provide six motorized beam reducers for the British Science & Technology Facilities Council's Central Laser Facility.

[Read Article >>](#)



Industry Events

Photonics 2014: 12th International Conference on Fiber Optics and Photonics

- Dec. 13-16, 2014 - Kharagpur, India



The Optical Society's Photonics 2014: 12th International Conference on Fiber Optics and Photonics is a biennial event that allows researchers from around the world to showcase a wide range of photonics work, from fiber optics and materials for photonic devices to next generation optical components and devices for optical networks.

Several researchers are scheduled to speak during the event; among them, Philip J. Russell of the Max-Planck Institute who will discuss scientific applications of microstructured optical fiber.

The conference will focus on fiber and guided wave photonics; lasers and nonlinear optics; nanophotonics, plasmonics and metamaterials; quantum optics, information and processing; optical communication and networks; biophotonics; and photonic materials and devices.

[More info >>](#)

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 Group Publisher Karen Newman at karen.newman@photonics.com

Questions: pr@photonics.com

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

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

PHOTONICS MEDIA

THE PULSE OF THE INDUSTRY



FEATURED VIDEO



presents the ATS Series
Alignment Turning Station with Fully Integrated Measurement Technology

TRIOPTICS GmbH – ATS-200

The ATS 200 is the first compact and highly stable turning lathe with full integration of TRIOPTICS' proven centration measurement technology OptiCentric®. It is the system with the widest range of applications in its class: It machines lenses with up to 200mm of diameter and 5kg weight whether it is an aspherical, spherical or infrared lens.

sponsor

SPIE SMART STRUCTURES NDE

SMART STRUCTURES NDE

Applied technologies of advanced materials, smart sensor networks, non-destructive evaluation, and structural health monitoring.

REGISTER TODAY

Conferences & Course: 25-29 March 2017
Portland Marriott Downtown Waterfront Hotel
Portland, Oregon, USA

sponsor

APRIL 3-6, 2017 | CHICAGO

AUTOMATE • 2017

Connect with leading suppliers and experts in vision!

REGISTER TODAY!

PHOTONICS buyers' guide

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

- [Machine-Vision Lenses](#)
- [Multispectral Measurement Cameras](#)
- [Optical Pellicles](#)
- [Photonics Component Manufacturing Equipment](#)
- [Slow Motion Cameras](#)
- [Video Microscopes](#)

sponsor

sponsor

sponsor