A better excimer laser. The IPEX-700.

www.lightmachinery.com



PHOTONICS.com

THE PULSE OF THE INDUSTRY



Thursday, March 12, 2015

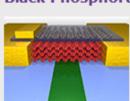
DEADLINE FOR ABSTRACTS APPROACHING!

Call for Presentations **Biophotonic Imaging** for Medicine: A Digital Conference



Photonics Media is seeking presenters for "Biophotonic Imaging for Medicine," a free digital conference to be held June 11. We invite presentations from researchers, clinicians and engineers working at the graduate, doctoral and professional levels. Topics of interest include light-sheet microscopy, optical coherence tomography, photoacoustics, computational imaging and more. Visit www.photonics.com/bioconference to find out more and submit an abstract.

Black Phosphorus Shows Promise in Optical Circuits



With a tunable bandgap, black phosphorus could be used to make better optical communications circuits than graphene and even germanium.

Read Article >>





An unprecedented 133-MP, 60-fps CMOS image sensor is being eyed for ultrahigh-definition TV broadcasting. Read Article >> Share

133-MP CMOS Image Sensor Eliminates Bulky Optics for 8K Broadcasting

Operating at the highest power ever documented for a system of its type, a laser weapon under development by Lockheed Martin disabled the engine of a small truck during a recent field test. Share

Read Article >>

Featured Products



Horizon Mid-Band OPO Continuum Inc.

Laser Weapon Stops Truck in Field Test

Continuum's Horizon offers up to 40% conversion efficiency, an extended tuning range into the vacuum ultraviolet (192-2750nm), parrow linewidth and active precision control throughout. More info >>



development of advanced

Spectroscopy-Certified

Laser Diodes

Photodigm Inc.

Photodigm's latest advances in DBR lasers have led us to the packaging. Thermal management of the high power was among our first considerations followed by small volume, rapid tuning, and volume manufacturing. More info >>



Mini and Micro Lens Elements Argyle International

Argyle has added a new series of miniature and micro lens elements to its 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 >>



Nanopositioners Mad City Labs

High-Performance

The Nano-MET series of high performance nanopositioning systems has been designed specifically for precision metrology applications. Products include Nano-METZ, Nano-MET10 & 20 and Nano-MET2 & 3. More info >>

Narrower Lasers Could Yield Better Atomic Clocks

More Articles on Photonics.com

To achieve even better atomic-clock precision, researchers at the



Niels Bohr Institute have devised a new way to narrow the linewidth of the red lasers that excite the electrons that function as the clock's pendulum.

Read Article >>







Nanowire Optical Properties Tuned by Alloy Catalyst A new growth catalyst gives greater control over the colors of light emitted by gallium

nitride nanowires. Read Article >> Share

A variety of broadband photoinduced effects allow metal-sulfide fibers to be switched on

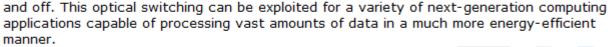
Chalcogenide Fibers Mimic Brain Functions

Read Article >>

manner.

Share







In this edition of the industry's premier weekly newscast: We drop by Abu Dhabi, where the Solar Impulse 2 recently took off on a solarpowered flight around the world. We also learn about the latest 2-D wonder material, a promising new approach to flexible displays, and an effort to recruit the next generation of photonics technicians.

Manufacturing Process The NanoJet process releases tiny drops of liquid crystal material with variations in weight

Kopin Names VP for Defense Business Development, Unveils New

within a few nanograms. This allows highly controlled and uniform layering, yielding superior image quality and higher brightness in the company's transmissive CyberDisplay and reflective LCOS (liquid crystal on silicon) displays. Share

Read Article >>



Phase Encoding, Photon Counting Yield Secure QR Codes Microscale QR codes coupled with optical phase and photoncounting encryption could be used to protect the integrity of



microchips used in the most sensitive applications.

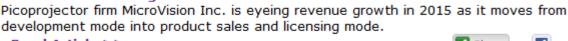
MicroVision Sets Sights on Revenue Growth in 2015

Read Article >>



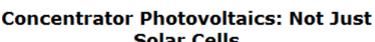
Share





development mode into product sales and licensing mode. Read Article >>

Share WEBINAR





Solar Cells Wednesday, March 18, 2015, 1 p.m. EDT FREE WEBINAR An efficiency of 46 percent has recently been



achieved with four-junction solar cells under a concentration on the cell of 508 times the normal solar power flux on the Earth's surface. Such high efficiencies are the driving force for the development of the concentrator photovoltaic (CPV) technology.

Light-Assisted 3-D Bioprinting of Micro- and Nanoscale Functional

WEBINAR



International Expo Centre

Biomaterials Thursday, March 19, 2015, 1 p.m. EDT FREE WEBINAR

Femtosecond laser nanoprinting and projection 3-D bioprinting techniques allow the direct writing of 3-D designer scaffolds used for tissue engineering and regenerative medicine. These 3-D biomaterials are



architecture, mechanical, chemical and biological properties.

functionalized with precise control of micro-

Industry Events

Asia's largest trade fair for the photonics industry has taken place in 10. LASER AND PHOTONICS Shanghai every year since 2006 and celebrates its 10th anniversary in 2015. It presents the entire range of photonics in an international

Subscribe

Laser World of Photonics China 2015 - March 17 to 19, 2015 · Shanghai New



setting, tailored to the specific needs of the Chinese market. The event coincides with Electronica China, Productronica China and Semicon China. More info >>

Questions: pr@photonics.com

© 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.

Manage Subscriptions | Privacy Policy | Terms and Conditions of Use

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

FEATURED VIDEO DENEW SCALE

New Scale Technologies – Developers Kit New Scale Technologies demonstrates the developer's kit for the M3-FS focus module, a miniature focus system for use in handheld and portable instruments. No larger than a fixed lens holder, the M3-FS moves M16x1 mm lenses with 0.5 micron resolution and high dynamic stability. It runs on battery power with integrated controller.





PHOTONICS buyers'guide

Looking for Lasers and Laser Systems products? Search the Photonics Buyers' Guide or Browse these product categories:

Argon-Ion Lasers

Distributed Feedback <u>Lasers</u> Laser Cavities <u>Laser Optics</u> Noncontact Optical Inspection Systems Thermoelectric Cooling <u>Systems</u>

sponsor sponsor sponsor