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Our World Is Flat

Flat Optics | Filters | Mirrors | Wafers | Windows

Sneak Preview

Photonics West, San Francisco, CA, Feb. 2-7, 2013

Issue 1 January 15, 2013

PHOTONICS MEDIA
THE PULSE OF THE INDUSTRY



Laser Room Interlock System

Kentek has upgraded the control panel for the **Entry Guard** laser room interlock system with graphic overlay membrane buttons in a lightweight yet durable housing. This best-in-class system has eleven output circuits, including 7 interlocks, and is fail safe.

 **Kentek Corp.** www.kenteklaserstore.com see us at booth 4335

Technical Seminars at Booth 1313




Join us for 15-minute **technical seminars** at booth 1313. Topics include MEMS devices, image sensors, μ PMT, compact light sources, QCL, and scientific CMOS cameras. These seminars will run at 10:30-11:45 AM and 1:00-2:45 PM daily during Photonics West.

 **Hamamatsu Corporation** sales.hamamatsu.com see us at booth 1313



Custom Flat Optics

Sydor has been providing custom **high-precision wafers**, windows, colored filters, mirrors, wedges and other flat optics for over 40 years. From aerospace to medical to research, we work with you to deliver what your program demands when you need it.

 **Sydor Optics, Inc.** www.sydor.com see us at booth 740

Sirrine Endowed Chair in Optical Fibers



The Clemson University School of Materials Science and Engineering, in conjunction with the Center for Optical Materials Science and Engineering Technologies (COMSET), is soliciting applications for the Sirrine Endowed Chair in Optical Fibers. The Sirrine Chair will be a pre-eminent scholar with an international reputation for research relating to optical fiber materials, advanced structures and applications.

 **Clemson University** www.clemson.edu see us at booth 4127



Rev2 Automated Micro-Polisher

Krell's next generation of **Rev Polishers** features automated z-axis movement. This "micro-feed" function gradually advances components to the polishing surface at a controlled rate.

Connector air-polishing for fiber denub and epoxy removal, traditionally performed manually, is now integrated in Rev.

 **krell technologies** www.krelltech.com see us at booth 4100

Transforming Light

- Laser Dyes
- Fluorescent Dyes
- Selective Wavelength **Filter Dyes**
- Infrared Dyes



 **Exciton, Inc.** www.exciton.com see us at booth 4410



Precision Polymer Optics

G-S PLASTIC OPTICS manufactures optics for imaging, scanning, detection, and illumination applications. GSPO provides diamond turned and injection molded prototypes, production injection molding, thin film and reflective coatings, and


integrated optical solutions for military, medical, commercial, and consumer markets.

 **G-S PLASTIC OPTICS** www.gsoptics.com see us at booth 606

6300 Series ComboSource



The Arroyo Instruments **6300 Series ComboSource** is a combination laser driver and temperature controller in a single, compact enclosure, combining a 60 Watt temperature controller and up to 4 Amps of current drive to provide a stable, low-noise controller for your laser or LED application.


 **Arroyo Instruments** www.arroyoinstruments.com see us at booth 5327

All-In-One TCSPC Module



SPD_AT_M2 is the latest "all-in-one" two-channel **Time Correlated Single Photon Counter**. It performs very high photon detection efficiency, very low noise and fast timing resolution in the 900 - 1700 nm wavelengths.

 **AUREA Technology** www.aureatechnology.com see us at booth 1123



Play Light Masters and you could win a Google Nexus 7 tablet!




- Are you good at guessing company logos?
- Current on industry news and events?

Are you the next Light Master? There's only one way to find out! Play Light Masters at the Photonics Media booth at both BiOS (booth 8600) and Photonics West (booths 600 & 601) AND be entered into a random drawing for a Google Nexus 7 tablet!

Drawings will be held at 3 p.m. on Sunday (2/3/13), Tuesday (2/5/13), Wednesday (2/6/13) and Thursday (2/7/13).

Pick up a copy of the current issues of *Photonics Spectra*, *BioPhotonics* and *EuroPhotonics*. Fill out a subscription form and pick up a small token of our appreciation.

Scan your badge and enter to win a \$300 gift card from Amazon!



Photonics West 2013

SPIE Photonics West 2013 - begins Feb. 2 with SPIE BiOS, where the latest information on biomedical optics, diagnostics and therapeutics, biophotonics, molecular imaging, optical microscopy, optical coherence tomography, and optogenetics is presented and discussed.

This year BiOS will feature 2000 presentations in the areas of photonic therapeutics and diagnostics; clinical technologies and systems; tissue optics, laser-tissue interaction, and tissue engineering; biomedical spectroscopy, microscopy, and imaging; and nano/biophotonics. The BiOS Expo (Saturday and Sunday) is where 235 companies show-off their latest devices, components, and instrumentation for diagnostics and therapeutics.

The BiOS Hot Topics session (Saturday, Feb. 2, 7 p.m. to 9 p.m.) this year will include: optogenetics and hybrid-optical control of cells, MEMs-tunable VCSEL technology for ultrahigh-Speed OCT, patterned multiphoton photoactivation in scattering tissue by temporal focusing, clinical requirements for optical imaging in medical robotics, camera-based functional imaging of tissue hemodynamics, multiwave approach to elasticity imaging for cancer detection, functional optical imaging of the brain, and photoacoustic flow cytometry.

» The Main Event

SPIE Photonics West 2013, the flagship annual event for the photonics industry, will feature 4400 papers, 18 plenary presentations, 40 technical events, 70 courses, and 1300 exhibitors.

Conferences include Lasers and Sources (LASE): laser source engineering, high-power laser manufacturing, nonlinear optics, semiconductor lasers and LEDs, laser micro-/nanoengineering, laser applications; Optoelectronic Devices and Materials (OPTO): optoelectronic materials and devices, photonic integration, nanotechnologies in photonics, advanced quantum and optoelectronic applications, semiconductor lasers and LEDs, displays and holography, optical communications: devices to systems; MOEMS-MEMS: micro- and nano fabricated electromechanical and optical components, micro/nanofabrication, devices, applications, reliability; and Green Photonics: solid-state lighting and displays, laser-assisted manufacturing and micro/nano fabrication, communications, renewable energy generation: fusion and photovoltaics.

» Start-up Challenge

The 2013 SPIE Startup Challenge, a photonics business pitch competition, has become an annual opportunity to see early-stage innovation in progress. Ten finalists will present their three-minute pitches to a panel of judges on Wednesday, Feb. 6, 3:30-5 p.m., followed by announcement of winners and a reception. The finalist presentation is open to the public with free registration.

Pitches will showcase optics or photonics technologies or applications presented as the basis for viable new businesses. The focus is on new businesses and potential startups, so established companies must be pre-revenue at the time of the competition. Winners in previous Startup Challenges pitched products including a device for delivering medications through the skin without an injection, and an early-stage diagnostic tool to help stave off age-related macular degeneration.

First prize is \$10,000, second prize \$5,000, and third prize \$2,500. Each of the 10 finalists will receive sponsorship to attend the Entrepreneurship Academies organized by University of California, Davis.

For more information, visit: <http://spie.org/x88933.xml>

» Stop by our booth

Visit Photonics Media at booths 8600 (BiOS Expo) and 600 and 601 (Photonics West Exhibition) for interactive games, the chance to appear on camera, cool giveaways (a Google Nexus 7 tablet!) and a chance to win a \$300 Amazon gift certificate. And as always, you can visit us online at www.photonics.com

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