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Laser Diode Instrumentation & Test Systems



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Sneak Preview

Photonics West, San Francisco, Calif., Feb. 1-6, 2014

PHOTONICS MEDIA
THE PULSE OF THE INDUSTRY

Issue 2 January 14, 2014

PHOTONICS WEST 2014 LIGHT EXCHANGE

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Ultra Compact Pico/Femtosecond Lasers

Nuphoton's passively **mode-locked ultrafast lasers** provide 330fs to tens of picoseconds pulses at 1µm or 1.5µm. In a compact footprint of 70 x 43 x 12mm, these are well suited as seed lasers for high power fiber and solid-state lasers.

 **Nuphoton Technologies, Inc.**

www.nuphoton.com

See us at booth 5632

BQM-50 Beam Propagation Analyzer

The BQM-50 is designed to allow complete measurement of **laser beam propagation** characteristics. In this system a liquid lens is used to remove the need for the translation stage used in traditional systems, to allow beam widths to be sampled through the laser beam caustic. This makes the BQM-50 one of the most compact and capable beam quality systems available.



 **Arden Photonics Ltd.**

www.ardenphotonics.com

See us at booth 5614 North Hall

LDP-3830 Pulsed Precision Current

The ILX Lightwave **LDP-3830 Pulsed Precision Current Source** is specifically designed for controlling laser diodes and quantum cascade lasers. The LDP-3830 provides adjustable pulse current up to 5A at 20V, pulse widths from 25 ns to 1 µs, and duty cycle from 0.01% to 5%.



 **ILX Lightwave Corp.,
Sub. of Newport Corp.**

www.newport.com

See us at booth 1301

Optran NCC Non-Circular Core Fiber

CeramOptec's **NCC non-circular core silica optical fibers** show the same exceptional performance as Optran UV/WF fibers. Fibers are available with square, rectangle and octagonal cores offering excellent image scrambling, low focal ratio degradation and homogeneous output.



 **CeramOptec Industries**

www.ceramoptec.com

See us at booth 803

FISBA RGBeam Ultra Small Laser Module

The **FISBA RGBeam** light engine precisely couples three wavelengths. It can be used directly or carried to the customer's application through a multimode-fiber. It finds customized use in the field of life sciences as well as in production technology and metrology.



 **FISBA OPTIK AG**

www.fisba.com

See us at booth 2137

Raptor Launches Kingfisher Family of CCD Cameras

Based on the new Sony sensors (ICX674, ICX694, ICX814) these cameras come in various resolutions and formats: vacuum deep cooled (Δ -111°C), stabilized cooled or at board level with custom cooling. With true 16 bit scientific resolution, these cameras run from -20°C to +55°C.



 **Raptor Photonics**

www.raptorphotonics.com

See us at booth 5013 North Hall

High-Power UV Q-Switched DPSS

The new **Q-Series** provides high-energy UV, high pulse-to-pulse stability, perfect beam quality, compact head and long-term power stability to achieve the tightest process control for a wide variety of micromachining applications.



 **JDSU**

www.jdsu.com

See us at booth 1331

High Power Temperature Controllers

Stop by and see our new **5400 Series TECSource** high-power temperature controllers. Supplying up to 600W of TEC power, these new controllers satisfy even your most demanding thermal application.



 **Arroyo Instruments**

www.arroyoinstruments.com

See us at booth 4527

MagniStar® Bi-Telecentric Lenses

MagniStar high resolution C-mount bi-telecentric lenses offer the ideal optical solution for imaging and measurement applications where extreme accuracy is required. Magnifications range from 0.051X to 2X. Features include adjustable built-in iris, excellent MTF performance, less than 0.1% image distortion and no parallax error.



 **Navitar, Inc.**

www.navitar.com

See us at booth 502

2014 Photonics West

SPIE Photonics West is the largest and most influential event for the laser and photonics community in North America.



And this year's conference in San Francisco will feature an expanded industry track for tech startups, investors, and executives, with panel discussions on what startups need for success, promising technology commercialization prospects, and insights on funding biophotonics ventures, just to name a few.

"This year's added events enrich an already-strong program that is designed to drive economic growth in the photonics industry, stimulate new ideas, accelerate technology transfer, foster new partnerships, and spark innovation," said SPIE Senior Director Andrew Brown.

Biophotonics is an example of current opportunity, says Linda Smith (Ceres Technical Advisers), moderator of one of the new panels for business management. Smith characterized the field as a fertile ground for investment and economic growth, with a robust market for private placements in development-stage and high-growth biophotonics businesses.

Panels include:

Financing Life Sciences and Healthcare Ventures, moderated by Smith, with panelists including Omar Amirana (Allied Minds), Faz Bashi (Angel Capital Association), Jeremy Salesin (Intellectual Ventures) and Jonathan Wyler (SV Life Sciences Advisers).

What Startups Need to be Successful, moderated by Andrea Belz (Belz Consulting) with an introduction by Arun Chhabra, co-founder at 8tree, winner of the 2013 SPIE Startup Challenge, and panelists James Schaefer (Mark Schaefer Associates), Ken Irato (Faber Group), Liz Nevis (Intermolecular), and Ellen McGuirk (Masterplan Consulting).

Silicon Photonics and Photonic Integrated Circuits, moderated by SPIE Marketing and Industry Relations Director Peter Hallett, with panelists Radha Nagarajan (Infinaera), Mario Panicia (Intel), Vladimir Kozlov (LightCounting), Peter De Dobbelaere (Luxtera), and Ashok Krishnamoorthy (Oracle).

Green Photonics: A Solar Revolution, moderated by Stephen Eglash, Energy and Environment Affiliates Program, Stanford University, with panelists Homer Antoniadis (DuPont), Raffi Garabedian (First Solar), and Martin Green (University of New South Wales).

A new Technology-Transfer Showcase aims to connect creators with companies, said moderator David Wick, Licensing Executive at Sandia National Labs. "Universities and labs are hotbeds of wildly creative ideas," he said. "The trick is turning those ideas into cost-effective, reliable products and introducing them to the marketplace."

Stop by our booths!

Visit Photonics Media at Booth 8701 during BiOS or Booths 700 and 701 during Photonics West, pick up the inaugural issue of Photonics Media's Industrial Photonics magazine or the January issue of our flagship publication, Photonics Spectra. Test your "light IQ" by playing our Light Masters game of photonics industry logos and/or trivia during the BiOS exhibition and you're registered for the drawing of a Google Nexus 7 tablet. There will also be Nexus 7 drawings daily for Light Masters players during the Photonics West Exhibition, as well as a random drawing on Feb. 6 for \$300 in gift cards from Amazon! And as always, you can visit us online at www.photonics.com

[photonics.com](http://www.photonics.com)

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