

# PHOTON







Volume 48 · Issue 8 · HIGHLIGHTS

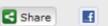
August 2014

#### For Image Processing, More Power and More Challenges



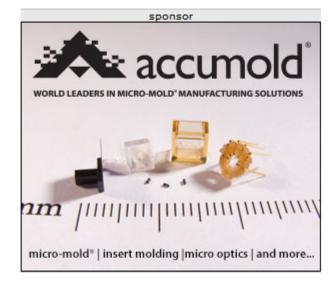
Vision software makers must manage the data surge resulting from 3-D measurement, escalating pixel counts and more. In some ways, the machine vision market is no different than its consumer counterpart. Take, for instance, the question of megapixels. The big growth now is in 2- to 5-MP sensors, with 20+-megapixel sensors in niche markets.

Read Article >>









#### Improving Slurry Recycling Makes Green Process Greener



A cerium oxide recycling program undertaken out of necessity has provided significant efficiency and cost cutting. The recycling process involves remixing the cerium oxide particles into a concentrate so that a reusable cerium oxide slurry is available for polishing applications.

Read Article >>

**UV Laser Radiation: Skin Hazards and Skin Protection Controls** 

The words "laser safety" bring to mind eye protection, but protecting the skin is also

important. Skin-hazard descriptions and control requirements related to UV laser radiation

can be found in the ANSI Z136 safety standard, the OSHA Technical Manual and the ACGIH

handbook of threshold limit values. These references provide practical guidance on UV skin hazards. Controls - based on these references and on a few example calculations - can









utilizing internal flat

Looking for Lasers and

Photonics Buyers' Guide

or Browse these product

Laser Systems products? Search the



PHOTONICS buyers' guide

sponsor

#### help keep UV laser users safe. Read Article >>



Diamonds just might be a laser beam's best friend. A team from Macquarie University's Photonics Research Center has discovered how to increase the quality of high-power laser beams by exploiting the optics of an 8-mm diamond.

Read Article >>



Share







Tech Pulse Light Speed GreenLight

**Editorial Comment Lighter Side** 

## Products from this Issue



#### Nanosecond UV Lasers Photonics Industries

International Inc. Combining its proficiency in intracavity harmonic generation with end-pumping diodes, Photonics Industries has introduced the DSH-355 series multifunctional diode-pumped

solid-state nanosecond UV lasers. More info >>



## IR Camera

DIAS Infrared Corp. Made for high temperature applications in the metal industry, the Pyroview 512N infrared camera from Dias Infrared allows for non-contact temperature measurement at temperatures up to 1500 °C.

More info >>



# Three-CMOS Camera

Toshiba Imaging Systems Toshiba Imaging has released the IK-HD5, a full HD, progressivescan 3CMOS camera for use in color-critical applications including endoscopy, surgical microscopy, ophthalmology, infrared inspection and defense imaging

systems. More info >>

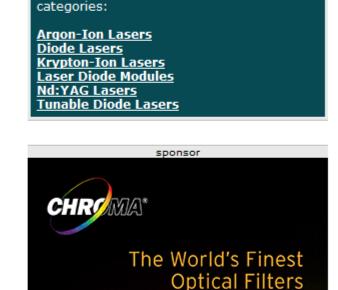


# Fiber Laser Isolators

Electro-Optics

Technology, Inc. With a monolithic design for beam pointing stability, the SLC 30W Fiber Laser Isolators from Electro-Optics Technology protect pulsed fiber lasers from back reflections during marking and engraving applications.

More info >>

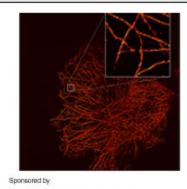


TIRF filter sets with highest

available signal to noise

LEARN MORE





REGISTER NOV

### Fast & Sensitive Camera Technologies How to Choose the Best Solution

Thursday, August 21, 2014 1:00 PM - 2:00 PM EDT

FREE WEBINAR



Dr. Orla Hanrahan has worked with Andor Technology as an Application Specialist in Life Science for the past four years. In this webinar, Dr. Hanrahan will outline the key parameters required for a fast and sensitive detector. She will present Andor's range of imaging cameras which will demonstrate the advantage of choice and flexibility to the end user. The key differences between EMCCD and sCMOS technology will be discussed as well as the applications these cameras are suitable for.

## 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 Managing Editor Laura Marshall at laura.marshall@photonics.com

Questions: pr@photonics.com

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

Manage Subscriptions | Privacy Policy | Terms and Conditions of Use