# PHOTONICS













spectra

Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue.



### Musings on Horses and Quantum Leaps MIKE WHEELER, MANAGING EDITOR



The Kentucky Derby. The greatest two minutes in sports. Its very name evokes air thick with bourbon and cigar smoke,

for the Masters in April, few sporting events offer a more visually rich experience for TV viewers. Read Article (3 (7) (8) (in (9)

women's hats adorned with bows and feathers, sleek thoroughbreds and spectators dressed to the nines. Save, perhaps,



Liquid Crystal Displays



Cadmium-Free Quantum Dots Offer Vibrant Color for

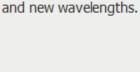
Display manufacturers are constantly striving to satisfy consumers' never-ending appetites for better and more true-to-life electronic displays. While cadmium-based

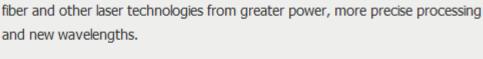
### quantum dots have been around since the mid-1980s, more recent advancements in their chemical makeup are giving quantum dot technology new potential in the marketplace without performance trade-offs.

Better Lasers, Better Machining When it's time to cut, weld, ablate, mark or otherwise machine

Read Article (3) (7) (8) (in) (V)











materials, manufacturers are increasingly turning to lasers. Falling system costs and better resulting product quality are two reasons

expanding the range of materials that can be handled. For that, there's progress in

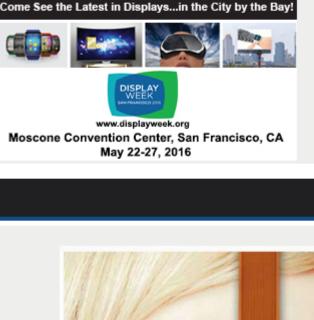
why. Still, the need exists to further lower the cost of laser machining while



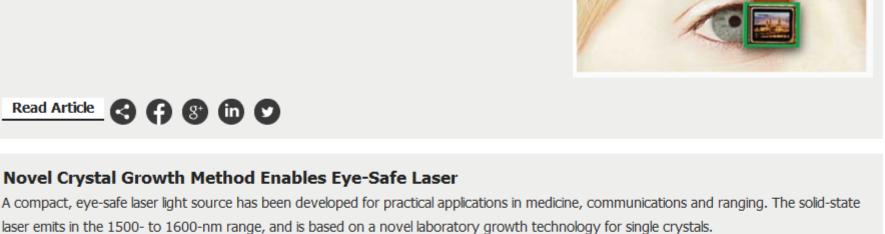


CLEO:2016

sponsors



Read Article (3) (7) (8) (in) (2) Novel Crystal Growth Method Enables Eye-Safe Laser



Read Article









# **Featured Products**

New SMARTEK Vision CMOS Fiber-Coupled Diode Laser **Pump Modules** Camera

Request Info

Request Info

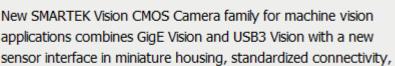


concept.

Read Article







Low-Cosmetic Defect IR Filters

Spectrogon US Inc. Spectrogon manufactures infrared filters and windows with high transmission, high rejection outside the passband, and

enhanced processing capabilities and a flexible customization

introducing low cosmetic defects.



Arbitrary Waveform Generator **Zurich Instruments AG** With the UHF-AWG 1.8 GSa/s Arbitrary

## generation and acquisition of complex Request Info

presents a unique solution for the

Waveform Generator, Zurich Instruments

**Featured Video** REO A Heritage of Superior Laser Optics REO was built on manufacturing optics specifically designed to enhance internal

damage resistance. Today, our optics continue to provide improved system

guarantees a complete solution to simplify your supply chain.

**Webinars** 

Watch Now



aperture of 0.22.

# Request Info

Telecentric 3D Laser

DILAS Diodenlaser GmbH

laser pump modules are now available in output powers of 50W and

90W at 976nm into a 106.5µm pigtailed fiber core with a numerical

Alluxa

Single-emitter based, fiber-coupled diode

**Ultra Fluorescence Filter Sets** 

Alluxa's ULTRA Series of fluorescence filter

sets are designed to provide the highest level of performance currently available for

Request Info



illumination as opposed to conventional

laser lines that project a diverging fan.

laser cavity performance. Our superior superpolished substrates combined with our low absorption coatings guarantee the lowest possible losses and highest laser performance and enable some of the most demanding laser systems in the world. From fabrication and coating to final alignment and assembly, partnering with REO

DAVE BERGE

Request Info

### Optimizing Machine Vision Systems to Maximize Product Quality and Yield

Thu, May 19, 2016 1:00 PM - 2:00 PM EDT

Photonics for Ophthalmology Thu, Jun 9, 2016 12:00 PM - 3:15 PM EDT

### Nelson Bridwell, president of Machine Vision Engineering LLC and an AIA Certified Advanced Vision Professional, discusses how to use statistical control to optimize reliability and yield of machine vision systems.

them; characterizing normal process variation, and using the resulting statistics to identify optimal configuration parameters and accurately predict the resulting inspection failure rates and product yield; and more.

Topics that will be covered in this free webinar include: Ad hoc procedures for setting configuration parameters and the potential problems associated with

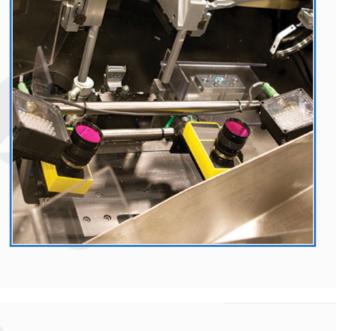
diagnosing and treating eye conditions. Brief question-and-answer sessions will follow each presentation. Topics include photo-mediated ultrasound therapy, ophthalmologic lasers, intraocular lenses, photobiomodulation and various aspects of optical coherence tomography. Register Now

Photonics Media invites you to join us for our upcoming digital conference,

presentations on the use of light-based imaging and surgical techniques for

"Photonics for Ophthalmology." The event will feature several 15-minute online

Register Now



photonics.com

PHOTONICS MEDIA

# Coming in June...

### Short-Pulse Lasers; Optical Components; Microscopy; Vision Systems; Optical Sensing **Issue Bonus**

Microscopy in Focus, with directory

Features

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazine Photonics Spectra. Please submit an informal 100-word abstract to Managing Editor Mike Wheeler at mike.wheeler@photonics.com or use our online submission form

About Photonics Spectra

www.photonics.com/submitfeature.aspx

Since 1967, Photonics Spectra magazine has defined the science and industry of photonics, providing both technical and practical information for every aspect of the global industry and promoting an international dialogue Quantum Dots among the engineers, scientists and end users who develop, commercialize and buy photonics products.

Stay current with a FREE subscription to the digital or print edition.

View Digital Edition Subscribe Free

Questions: info@photonics.com

Unsubscribe | Subscribe | Subscriptions | Privacy Policy | Terms and Conditions of Use Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949 © 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.