


sponsor



# Alluxa

## YOUR OPTICAL COATING PARTNER

[MORE INFO](#)

# PHOTONICS

## spectra

PHOTONICS MEDIA

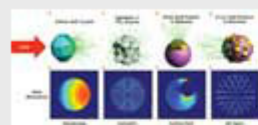
THE PULSE OF THE INDUSTRY



Volume 49 · Issue 4 · HIGHLIGHTS

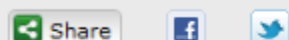
April 2015

### Nanoparticles: Probing the Plasma Threshold



Laser-induced plasma generation in nanoparticles has potential application in fields as diverse as medicine and materials processing. To fully harness this tool, it is important to understand how nanoparticles behave in strong laser fields and how they can be controlled. Science and engineering have always been about solving problems, and as those problems get bigger, the solution often is to make things smaller – sometimes much, much smaller.

[Read Article >>](#)



### Breaking the Mold: Overcoming Manufacturing Challenges of Chalcogenide Glass Optics

Fabricating optics using chalcogenides can be challenging because of these glasses' special optical, mechanical and economical characteristics. Diamond-turned machining is a viable option for addressing some of the issues with the conventional molding and polishing process.

[Read Article >>](#)



### Hyperspectral Imager Opens Options for Consumer, Medical and Industrial Uses



Hyperspectral imaging has long been confined to laboratory use and expensive applications. This is changing now, thanks to the advent of fast, compact, user-friendly and low-cost hyperspectral cameras based on a revolutionary hyperspectral sensor monolithically integrated on a CMOS imager.

[Read Article >>](#)



### Advances in Industrial Color Testing of Automotive Metallic Finishes

The measurement and characterization of lightness fluctuations, their scaling properties and their potential causes could help design low-noise industrial painting processes and help engineer innovative color and texture effects.

[Read Article >>](#)



### More News & Analysis

[Tech Pulse](#)  
[Light Speed](#)  
[GreenLight](#)

[Editorial Comment](#)  
[Lighter Side](#)

### Featured Products



#### LensCheck™ Production Lens Testing

Optikos Corporation  
The LensCheck™ instrument is a cost-effective solution for your production and prototype lens qualification needs.

[More info >>](#)



#### Eagle V - CCD Camera

Raptor Photonics Ltd.  
Eagle V - 4MP ultimate sensitivity vacuum cooling CCD for long exposure imaging!

[More info >>](#)



#### Filter Solutions for Machine Vision

Chroma Technology Corp.  
Chroma's state-of-the-art coating technologies, complete in-house engineering and U.S. manufacturing capabilities provide you with a choice of services, including product development of small quantities or high-volume manufacturing.

[More info >>](#)



#### Low-Cosmetic Defect IR Filters

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

[More info >>](#)



#### ILT5000 Research Radiometer

International Light Technologies  
ILT is proud to announce the release of the all NEW ILT5000 Radiometer/Optometer/Picoammeter.

[More info >>](#)



#### Hyperspectral Imaging

Corning, Inc.  
Corning offers an extensive line of products, designed to provide high-value, high-performance imaging and remote sensing solutions to a wide variety of customers.

[More info >>](#)



#### Nocturn GigE Low Light Color Camera

Photonis USA  
PHOTONIS Digital Imaging introduces a new Gigabit Ethernet Color Low Light camera optimized for low-light conditions.

[More info >>](#)



#### Laser Scan Head

SCANLAB AG  
The basiCube 10 from Scanlab AG is a scan head optimized for laser marking.

[More info >>](#)

### 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 Group Publisher Karen Newman at [karen.newman@photonics.com](mailto:karen.newman@photonics.com)

Questions: [pr@photonics.com](mailto:pr@photonics.com)

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

[Subscribe](#) | [Manage Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

© 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.

sponsor



WORLD LEADERS IN MICRO-MOLD® MANUFACTURING SOLUTIONS



micro-mold® | insert molding | micro optics | and more...

sponsor



## FLEX PIVOT FRICTIONLESS BEARINGS

A flexure based bearing, utilizing internal flat crossed springs, capsuled in a cylindrical housing.




### PHOTONICS buyers' guide

Looking for **Optics and Optical Components products?** Search the Photonics Buyers' Guide or Browse these product categories:

- [Blazed Gratings](#)
- [Electro-Optic Modulators](#)
- [Metallic Coatings](#)
- [Molded Lenses](#)
- [Solderable Coatings](#)
- [White-Reflectance Coatings](#)

sponsor



## The World's Finest Optical Filters

TIRF filter sets with highest available signal to noise

[LEARN MORE](#)

sponsor

### NEW LZM-110 LAZERMaster™ Laser Splicing System

Splice or process fibers with 80 µm up to 2.3 mm diameter



[LEARN MORE](#)

sponsor

sponsor