PHOTONICS











spectra

Manage your Photonics Media membership at Photonics.com/subscribe.

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

From food safety and manufacturing efficiency, to environmental testing and medical diagnosis, optical spectroscopy is already an

indispensable tool across several industries. Today, thanks to miniaturization of instruments and sophisticated advances in technology, spectroscopy is increasingly used to address the demands of a modern world. Read Article 🚷 🚹 🗓 💟

Packing More Performance Into Smaller Spectrometers

Evolution of the Supercontinuum Light Source







than adequate. But having a light source that combines the properties

imaging, communications, displays and materials studies.

almost totally replaced the older technology. Another shift currently brewing is due to the arrival of high-power diode lasers, which are impacting materials processing and driving down the cost of ultrafast



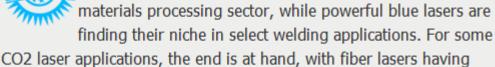
of a laser with the broad bandwidth of an incandescent bulb and a short pulse duration opens up a new realm of possibilities in medical

High-power fiber and diode lasers are reshaping the









lasers through the advent of direct diode pumping.

Featured Products



Alluxa



performance optical thin film solutions available today. For example, the Ultra Series Flat Top Narrowband filters

The Aries Spectroradiometer

Alluxa Ultra Series Filters and

Alluxa Ultra Series Filters, including

Narrowband, Dichroic, UV, IR, and

Notch filters, provide the highest

Coatings

Visit Website

including WiFi and Ethernet connectivity for easy

integration into production environments.

Gooch & Housego Orlando We are proud to introduce our next generation spectroradiometer, the Aries. Based on the proven design and performance of the OL 770, the Aries offers an array of enhanced capabilities,

Request Info

Request Info

Request Info

CMOS

spectrometers. This very small spectrometer including the

new CMOS detector with 4096 pixels enables you to work

Visit Website

Right now we are developing the



instrument optimization success can be critical.

Request Info

Visit Website

Diffraction Grating Solutions

Diffraction efficiency and dynamic

range are critical parameters in

many spectrometric instrument

designs. Understanding why a

particular reflective or transmission diffraction grating may

have small yet necessary performance differentiation for

Optometrics Corporation

FISBA Micro Camera and Microlenses FISBA AG FISBA develops and manufactures

optical components and optical

Request Info

Corning Hyperspectral Imaging

Avantes BV

new generation AvaSpec-Mini

Mini4096CL: With Unique 4K-

with the optimal resolution. New innovative design principles and the latest automated production alignment

Visit Website

BORA 1.3M Time of Flight Sensor Teledyne e2v (UK) Ltd. The 3D Time of Flight (ToF) BORA sensor is a 1.3 million pixel CMOS

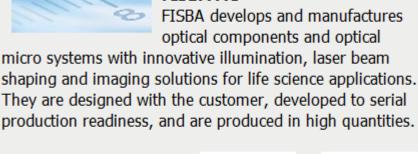
mode together with an electronic global shutter.

and ranges. It features an optimized multi-integration

Alluxa

JANUARY 30 - FEBRUARY 1, 2018

BOOTH #4569 NORTH HALL



Visit Website

Corning Incorporated, Advanced Optics Corning's microHSI family of hyperspectral sensors and systems combine the lowest size, weight,

Visit Website

Spectrogon US

and power (SWaP) in the industry with uncompromising

Request Info

Request Info



Teledyne e2v's proprietary CMOS imaging technology. It is ideal for systems operating at short or mid distances

image sensor, designed with

Visit Website Request Info sponsors



for uncooled microbolometers.

and Gas Detection

transmission, high rejection outside the passband, and introducing low cosmetic defects – while maintaining excellent coating uniformity --- for thermal imaging

Spectrogon manufactures infrared

filters and windows with high

Visit Website

Dynasil Photonics nspired by Light

applications such as cryogenically cooled IR detectors and



Husqvarna, Telit, Wireless System Integration Collaborate for Robotic Sensing Mowers in Cities Outdoor power product developer Husqvarna is using a wireless sensor developer from Internet of Things (IoT) connectivity provider Telit Communications PLC and electronic design company Wireless System Integration AB for its city Researchers used a superresolution imaging technique to strengthen photon-atom interaction, revealing a way to boost interaction between photons and a single atom that could be useful in quantum computing and metrology.



Featured Video

Applications with Light

Webinars

Read Article 🚷 🚹 📵 💟

robotic mower pilot program.

Read Article A fin O





Applications and Markets
Dictionary More than 40 articles!

www.photonics.com/store

Bettering the Odds for Quantum Interaction With 4Pi Microscopy

Optical

Methods Materials

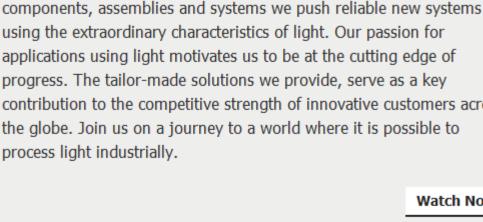
 Design Elements

Berliner Glas Group - Precise, Fast and Versatile: High-tech

Fabrication

Measurement, Test and Assembly

sponsors



Light-based technologies enable many advances in production

technology, metrology or medical technology. With our optical key

thresholds suitable for the increased demands of 21st century laser systems. Engineers and technical professionals whose work involves

application of lasers, optical sensors and/or thermal imaging will

benefit from attending this free webinar. Register Now Coming in February... **Features** Raman Spectroscopy; Lidar for Commercial Aircraft; Ultrafast Optics; Quantum Technologies; Measuring Diffractive Gratings

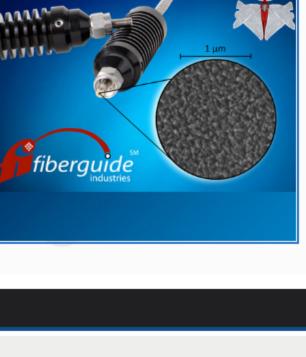
Watch Now



progress. The tailor-made solutions we provide, serve as a key contribution to the competitive strength of innovative customers across

Fiberguide RARe Motheye Fiber: Random Anti-Reflective (RARe) Nanostructures on Optical Fibers as Replacement

for AR Coatings Thu, Jan 18, 2018 1:00 PM - 2:00 PM EST As power level and wavelength range requirements increase, antireflective coating technology struggles to keep up. In this webinar, Fiberguide will discuss a new technology, called RARe Motheye Fiber, which offers greatly improved wavelength ranges and damage



About Photonics Spectra

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

michael.wheeler@photonics.com or use our online submission form www.photonics.com/submitfeature.aspx.

Since 1967, Photonics Spectra magazine has defined the science and industry of photonics, **PHOTONICS** providing both technical and practical information for every aspect of the global industry and

Annual Asia-Pacific Report



commercialize and buy photonics products. Visit Photonics.com/subscribe to manage your Photonics Media membership.

promoting an international dialogue among the engineers, scientists and end users who develop,

View Digital Edition Manage Membership

Unsubscribe | Subscribe | Subscriptions | Privacy Policy | Terms and Conditions of Use

Questions: info@photonics.com

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949 © 1996 - 2018 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.