This Week In **PHOTONICS** MEDIA f) (0) (in) (7) (2











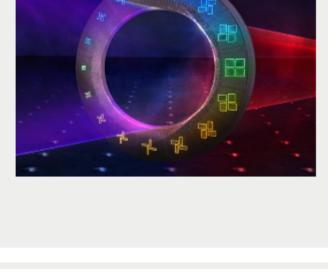
Boost your ultrafast laser power Wasatch Photonics with our VPH compression gratings HIGH EFFICIENCY • EXCELLENT UNIFORMITY • LOW STRAY LIGHT • ROBUST **Top Stories**

sponsor

Chiral Nanostructures Could Be Used to Tailor Applications Scientists have modeled the interaction between light and twisted molecules as the molecules transition from left- to right-handed

transitional forms could lead to improved design of telecommunications components.

versions, or vice versa. Understanding the behaviors of these



LIBS Technique Analyzes Contaminants in Levitated Water **Drops**

Read Article

Read Article





3 7 6 0



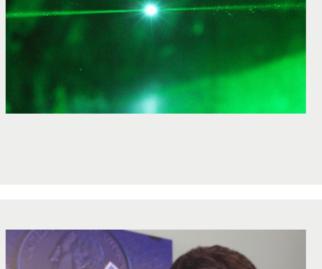
allows the water to evaporate in a controlled position, which increases the mass concentration of contaminants in the sample.

use of laser-induced breakdown spectroscopy (LIBS) to analyze the presence of heavy metals, such as mercury, in water drops that are

levitated in midair using ultrasonic waves. Levitating the water droplets

Nearby Starlight A new superconducting camera will be used in the search for exoplanets that could contain or support life. The camera's highcontrast imaging capabilities will help overcome the challenges inherent in distinguishing the light of a planet from the light of the star that it orbits.

Camera Can Differentiate Between Exoplanet Light and



Featured Products

Read Article









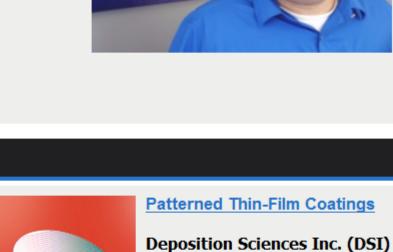
beamsplitters designed for demanding applications. Our

that enable exposure to temperatures that degrade film

AFL

based polarizers. Our polarizers are designed for narrow

polarizers are made from heat tolerant inorganic materials



need for coatings directly on semiconductor wafers, or on

miniaturized substrates. Specifically, this allows the

integration of optical filters, apertures or other features

Optics

quality lenses in a short amount of time.







and broadband UV-VIS-IR wavelengths.



AFL's new Micro-Tactical Fiber

ruggedness of military tactical cable

designs with the ultra-high fiber

The New Collar Workforce

U.S. manufacturing companies are

expected to face a shortage of two

million skilled workers by the year

result, manufacturers and educators

2020, according to reports. As a

Optic Cable combines the

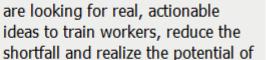
Micro-Tactical Cable

polarizers and polarizing

rapid deployment in optical networks requiring high mechanical performance specifications, extreme environmental exposure, and... Request Info Visit Website

Photonics Media

density of AFL's micro-cable technology. Designed for



custom polymer optics. For over 30 years, we've manufactured the most challenging polymer optic components and assemblies for leading defense, medical,

which modify...

and commercial applications with advanced technology and an experienced team of professionals. In this time, our customers have enjoyed our capacity to produce high-

Visit Website

Visit Website

The drive towards smaller photonic

processing electronics, has created a

Request Info

sensors, often integrated on

Visit Website

Diverse Optics Inc.

Custom Precision Polymer

Diverse Optics Inc. specializes in

single point diamond turning of

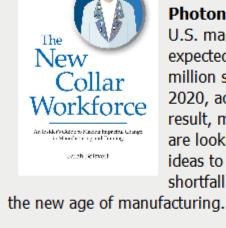
monolithic substrates with other

pco.panda 4.2 back illuminated (bi) PCO-TECH Inc. German-based sCMOS pioneer PCO has just introduced the latest addition to its camera family: the pco.panda 4.2 back illuminated (bi). PCO's sCMOS family is the most versatile scientific imaging portfolio on the market. It is renowned for its extremely low readout noise

of 1.0 e- med, high resolution of up to 5.5 megapixels...

Request Info

Request Info



Visit Website Request Info

sponsors CONFERENCE 20™ PHOTONICS NORTH CONFERENCE JOIN US IN CENTRE MONT-ROYAL JUNE 5 - 7, 2018



pco.

up to 🤧 5 quantum efficiency



pco.panda 4.2 bi



3 A B D Read Article

portable device for on-site testing.

hosts some of the world's top innovators who showcase their work and products at the Optatec International Trade Fair. To be held May 15-17, this event highlights the latest optical technologies, components,

and systems in areas such as optomechanics and laser components.

Education, Technology at the Heart of Optatec 2018 Biennially, the Frankfurt (Germany) International Exhibition Center

including marijuana, and could be integrated into a hand-held,

3 7 6 9 Read Article **More Headlines**

Radiant Vision Systems Moves Headquarters Read Article

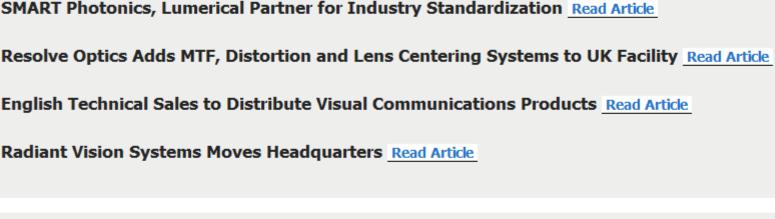
THIS YEAR, GO BEYOND SMART.

SEMICON[®]

JULY 10-12, 2018 | SAN FRANCISCO, CA

REGISTER TODAY

Newton's Cradle Yields Insight into Quantum Thermalization Read Article



Industry Events



More Info

Register Now

sponsors



CONFERENCE

this webinar, you will learn how laser energy measurement works and how to do it right. It will discuss the technical principles of energy measurement and best practices for ensuring accurate readings. This

Tue, May 15, 2018 1:00 PM - 2:00 PM EDT

webinar is presented by Ophir Photonics.

Energy Measurements

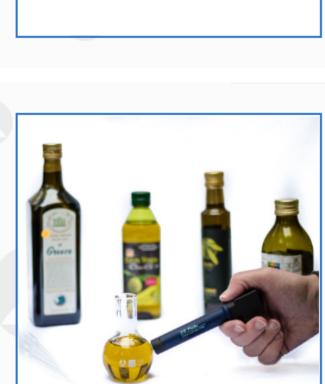
Webinars

Hand-held Spectrometers in 2018 and Beyond Wed, May 16, 2018 1:00 PM - 2:00 PM EDT This webinar will survey the hand-held and portable spectroscopy field, with an emphasis on optical instruments, their underlying technologies and their applications. Presenter Richard Crocombe, Ph.D., will review some of the devices that are on the market today and conclude with a look at where hand-held spectroscopy could be headed. This webinar is sponsored by B&W Tek, by United Power Research Technology Corporation (UPRtek), by Hamamatsu, and by SPECIM.

Best Practices: How to Achieve the Most Accurate Laser

Measuring a pulsed laser is complex. Besides power, you also need to worry about pulse energy, frequency, and pulse width (duration). In

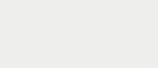
Register Now



Offers CMOS and InGaAs imaging sensors and cameras operating over an extraordinary dynamic range of more than 140 dB. Our sensors are particularly useful for

PHOTONICS buyers' guide® • EXHIBITOR SPOTLIGHT

machine vision, automobile and autonomous driving, biometrics, security and surveillance. NIT delivers from large volume production down to small numbers and custom products. Our facility is fully ISO9001 accredited. Learn more about NEW IMAGING TECHNOLOGIES (NIT)



Detector Arrays

Infrared Detectors

Photodiode Detectors

Temperature Sensors

Visit Website

Photodiodes

submit an informal 100-word abstract to Managing Editor Michael Wheeler at Michael.Wheeler@Photonics.com, or use our online submission form.



Looking for Sensors and Detector products? Search PhotonicsBuyersGuide.com, or browse these product categories: CMOS Image Sensors

> 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

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