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and sensing applications has increased over several decades to the

point that it is now almost ubiquitous. Among its many functions, optical fiber delivers high optical power and detects very low intensity signals. Regardless of the application, however, a generally unwanted reflection from the end face of the fiber causes problems. Read Article (4) (1) (1)

communications, defense, digital projection, industrial laser, medical,



Advancements in Telecentric Technology



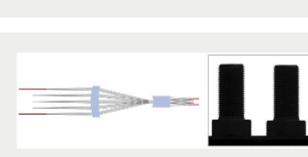




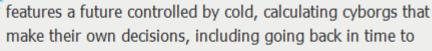
and methods to perform automatic inspection and analysis in various applications, such as verification, measurement, and process control.

Driven by trends in Industry 4.0, machine vision has grown steadily over the past few years and now covers a wide range of applications in

the most disparate sectors: from automotive to pharma, from food and beverage to electronics. Practically no sector has been left out of this transformation. The Reality of Intelligent Manufacturing



"Rise of the Machines," the third "Terminator" sci-fi movie,



improved machines is still a long way off (much less the ability to time travel), smart factories — the highly productive phenomena at the center of the Industry 4.0/Industrial Internet of Things revolution are growing and succeeding. Read Article (4) (in (7) **Featured Products**

CELESTA Light Engine

today's most demanding

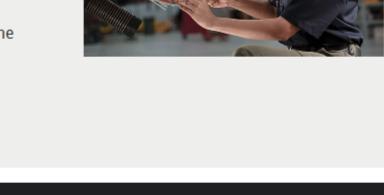
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Lumencor's Celesta Light Engine

delivers exceptional brightness and

Lumencor Inc.

exterminate the human resistance. While the evolution of machines using artificial intelligence and machine learning to design and build



Headsets

Measurement

grade imaging system with the size and efficiency needed

for production inspection. The Radiant Vision Systems

measurement in VR headsets, AR smart glasses, and...

The expansion includes twelve additional wavelengths

The prominent high-definition OLED full digital

covering 405 nm – 975 nm, as well as higher powers on

several existing wavelengths: 405 nm with 365 mW, 445 nm with 400 mW, 457 nm with 400 mW, and 515 nm

AR/VR Lens solution is designed to simplify display

Test Displays Within AR/VR

Test the visual performance of

displays in augmented and virtual

reality headsets using a scientific-

Radiant Vision Systems, Test &



speed. This laser-based, solid-state illuminator is designed to support



Norland Products Inc.

multidimensional fluorescence microscopy applications.

use, high performance connection for optical fibers. This splice incorporates a precision TRW glass alignment guide and a proactive glass sleeve in a unique one piece design that minimizes handling of bare fiber.

Norland Optical Splice - Easy To



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Photonics Spectrum Reference

Chart

The Norland UVC Optical Splice is the first really easy to

This full-color, 30×20.5 -inch poster of the photonics spectrum displays the major commercial laser lines, detectors and optical materials in the ultraviolet to the far-infrared and beyond. The chart

was updated in 2018 to reflect the changing technologies

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SEE THE AR/VR LENS ▶



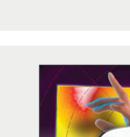
HUBNER Photonics HÜBNER Photonics is proud to announce an expansion of the Cobolt 06-01 Series of plug and play modulated lasers.

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microdisplays by OLIGHTEK profoundly widen near-to-eye applications and lead the way in near-to-eye technology. OLIGHTEK's full digital high-definition OLED microdisplays

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display test solution

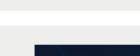
for AR, VR, MR devices

in the photonics industry.

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are available for new applications...

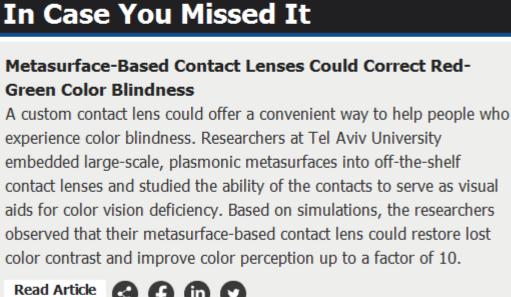
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Getting Specific About Coating Specifications

Wed, Apr 15, 2020 1:00 PM - 2:00 PM EDT

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are clearly conveyed to your coating solutions provider. To achieve this, the NACL team asks that you let them know what challenges you have faced or are facing currently with regard to specifying and testing optical coatings and meeting your coating requirements. You can do this when you complete the registration process. The NACL team will review all responses and prepare a presentation that is customized to the concerns of the registrants. **Next Issue:**

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A team from research institute AMOLF and Delft University of Technology observed light propagation within a photonic crystal without the usual distortion caused by reflections. Since the crystal consists of two parts, each with a slightly different pattern of perforations, light can propagate along the boundary between the two parts in such a way that it is "topologically protected," and therefore does not bounce back at imperfections. Even when the boundary forms a sharp AeroDef sme

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providing both technical and practical information for every aspect of the global industry and promoting an international dialogue among the engineers, scientists and end users who develop, commercialize and buy photonics products.

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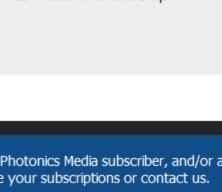
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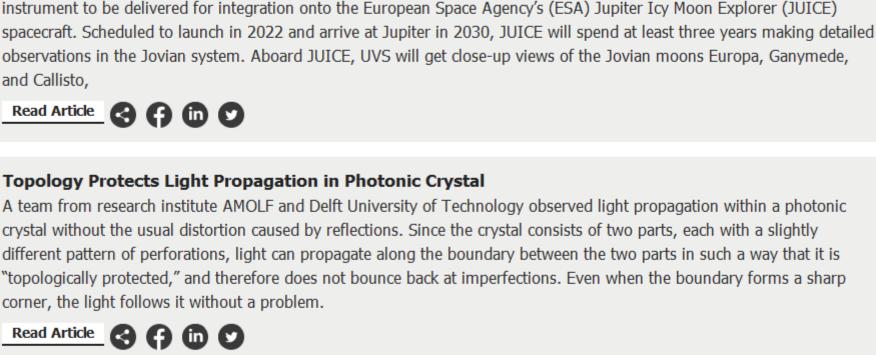
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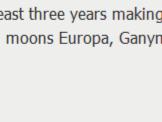
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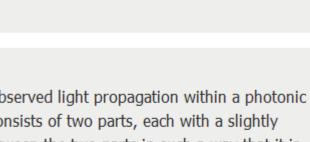


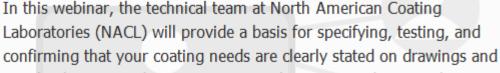


SwRI Delivers Ultraviolet Spectrograph for Jupiter Mission









Auto Sensors, 3D/4D Imaging, Scanning Lidar, and more. **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 Susan Petrie, Senior Editor, at Susan.Petrie@Photonics.com, or use our online submission form www.photonics.com/submitfeature.aspx. About Photonics Spectra

