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Silk's Photonic Talents Brought to Light at FiO 2012



Natural silk's potential as an eco-friendly way to manipulate light for applications such as biosensors, lasers and photonic chips was presented by silk optics pioneer Fiorenzo Omenetto of Tufts University and Nolwenn Huby of CNRS Institut de Physiques de Rennes in France this week at the Optical Society's annual meeting, Frontiers in Optics (FiO) 2012.

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Newport Acquires Vibration Isolation Line from Vistek

Newport Corp. said this week that it has extended its range of vibration-isolation equipment by acquiring the products and technology of Tempe, Ariz.-based Vistek Inc.

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Anti-Laser Eyewear Filters Multiple Wavelengths

Eyewear that blocks a variety of wavelengths to protect pilots against different types of lasers shined into cockpits is now being tested by Britain's Ministry of Defense.

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Ultrafast Laser Reveals Molecular Mysteries

Eadweard Muybridge used high-speed photography to determine whether a galloping horse touches the ground at all times (it doesn't). Now, 134 years later, University of Arizona physicists used ultrafast, high-energy laser pulses to solve a similar mystery: What happens to atoms and electrons when they break apart?

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Japan Cell Co., Ltd.

Light Matters
PHOTONICS MEDIA NEWS

Tune in for current life science news on Light Matters Weekly Newscast, sponsored by BioPhotonics magazine. In this week's edition: An interview with silk optics pioneer Fiorenzo Omenetto of Tufts University, reporting from Neuroscience 2012 in New Orleans, and news that a photonic gel has been found to be a metamaterial with many potential uses. Hosted by Photonics Media's Melinda Rose and Laura Marshall.

Edmund Optics to Expand Manufacturing Operations

Edmund Optics will further invest in its domestic manufacturing operations and expand its global coating and asphere optical manufacturing footprint in 2013, the company announced Thursday.

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Laser Pointer IDs Dangerous Chemicals

A new portable Raman spectrometer created using an ordinary green laser pointer can detect minute traces of explosives and other hazardous chemicals in real time.

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Ultrathin Coatings Exploit Optical Phenomenon

By exploiting an overlooked optical phenomenon, ultrathin metal surfaces were made to shine vibrant hues. The coatings that change color with only a few atoms' difference in thickness could provide new possibilities for sophisticated optical devices, consumer products and new visual arts techniques.

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Improving Nanoscale Manufacturing with IR Spectroscopy

A new infrared spectroscopy diagnostic tool that can chemically analyze polymer lines as small as 100 nm could be the answer to the industry's critical need for nanomanufacturing chemical metrology, according to an industry-university collaboration.

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Industry Events

VISION 2012 - November 6 - 8, 2012 · Stuttgart, Germany
Visit us at booth 1D01



Two spectacular events coincide this year with VISION 2012, the leading international trade fair for machine vision: VISION celebrates its 25th anniversary and it moves into the most attractive and largest trade fair hall on the Stuttgart trade fair grounds, Hall 1. All exhibitors are united for the first time under one roof under the theme "One VISION." Approximately 360 exhibitors representing 30 countries are expected at the world's largest and most important form for the machine vision industry. More than 7000 visitors are expected in Stuttgart, with an increasing number coming from outside Germany. VISION 2012 will present the latest high-tech machine vision components such as cameras, image sensors, vision sensors, frame grabbers, illumination, laser, optics, lenses and software.

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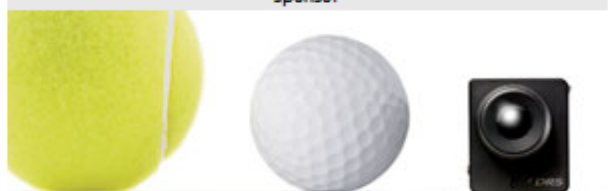
FEATURED VIDEO



Continuum - Introducing Horizon OPO

In this video, Continuum introduces Horizon, its new mid-band Optical Parametric Oscillator (OPO) providing 192-2750 nm tuning range, up to 40% conversion efficiency, narrow linewidth, and active precision control throughout for hands-free operation. Compatible with Continuum pump lasers, Horizon is a complete & robust package built for consistent output.

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VISION 25
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