This Week In







Air Bearings









Mini Actuators







Osram Outfits Hockey Players

Top Stories

Light developer Osram Licht AG outfitted the Eishockeyclub Red Bull Munich

professional hockey team with wearable high-tech lighting for a night event, crowning celebrations for the brand's 110th anniversary. The rink and its surrounding area were illuminated by floodlights and effect lighting, with Osram unveiling its latest offering.



Read Article

Mouse Model







models genetically programmed to develop Alzheimer's, researchers are exploring the potential of using light to reduce amyloid-ß (Aß) plaque levels and to stimulate

Light Therapy Shown to Reduce Plaques in Alzheimer's

Using LEDs that can be programmed to flicker at different frequencies on mouse

brain waves that have been disrupted in Alzheimer patients. Aß plaques, which are suspected to cause harm to brain cells, are a hallmark of Alzheimer's disease. Studies have hinted that Alzheimer's patients may also have impaired gamma oscillations. These brain waves are believed to contribute to normal brain functions such as attention, perception and memory. Read Article

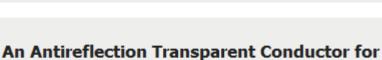




Optoelectronic Devices







diodes, photovoltaic cells and smart phones. Most of this current technology is based on the use of the semiconductor Indium Tin Oxide (ITO) as a transparent

conducting material. However, ITO is expensive to produce, lacks flexibility and must be processed under high temperatures. Much research has been devoted to finding an alternative process and alternative materials to replace ITO. Researchers at the Institute of Photonic Sciences (ICFO) and its Catalan Institute of Research and Advanced Studies (ICREA) think they may have found the answer.

Transparent conductors are found in many devices such as displays, light emitting







FINALISTS

SEE THE WINNERS AT SPIE PHOTONICS WEST

Honoring the best new optics

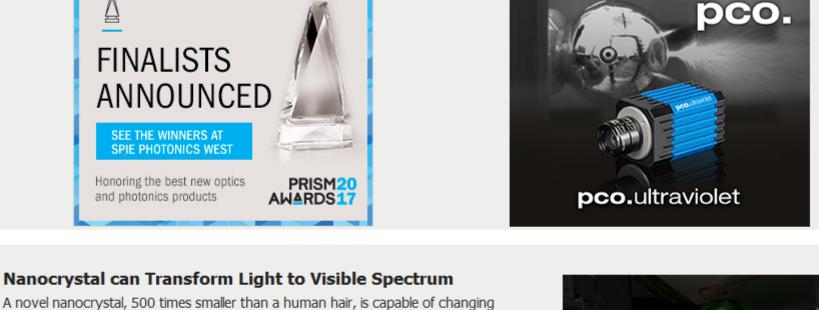
and photonics products





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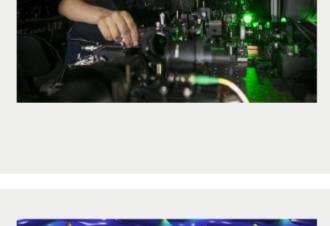


objects to be seen in very dark environments.

Nanocrystal can Transform Light to Visible Spectrum

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the intensity, shape and color of light. Developed by researchers at The Australian National University (ANU), the nanocrystal was built on glass so that light could pass through it. It could be used to convert light to the visible spectrum, enabling

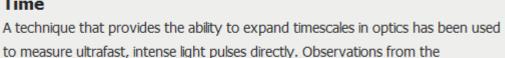


Time Magnification Used to Measure Chaotic Pulses in Real

Time



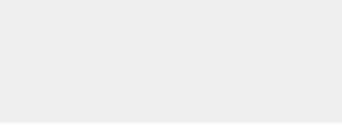




the surface of the oceans or the appearance of other extreme events in nature. Waves similar to rogue waves exist in optics in the form of short and intense light

experiments confirm theoretical predictions that were made decades ago, and could play a role in the prediction of very high, sudden and rare rogue waves on

More Headlines Adaptive Reuse Project Transforms With Lasers Read Article





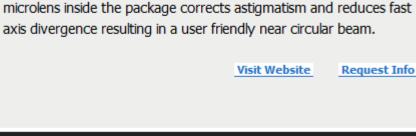


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States

axis divergence resulting in a user friendly near circular beam.

DBR Laser with Beam

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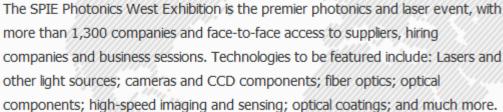
Correction

with integrated beam correction. A Virtual Point Source (VPS)

Photodigm Inc.

Industry Events

SPIE Photonics West 2017 - Booth 900,901

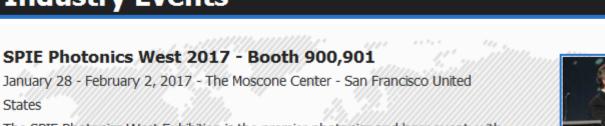


The 2017 Industry Program offers over 30 events covering industry trends,

2017 winners of the Prism Awards for Photonics Innovation, cosponsored by

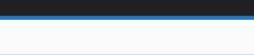
challenges and ways to build your company. Gala awards ceremony honoring the

Webinars Silicon Photomultiplier: Theory and Applications Wed, Jan 11, 2017 1:00P EST The silicon photomultiplier (SiPM), also known as Multi-Pixel Photon Counter (MPPC), is becoming a popular choice of a photodetector in applications where even single photons must be detected. The goals of this webinar are for you to:



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3SAE Combiner Manufacturing

System (CMS)

System (CMS) is a vacuum based optical glass processing system

designed to maintain production level repeatability for combiners

and other fused optical components. The CMS includes tapering, cleaving, bundling, and splicing utilizing 3SAE's patented Thermally

3SAE Technologies Inc.

The 3SAE Combiner Manufacturing



SPIE and Photonics Media, takes place on February 1.

1) develop a strong theoretical understanding of how a SiPM functions; 2) become familiar with the key optoelectronic characteristics of SiPMs; and 3) understand the pros and cons of SiPMs. The webinar will also cover applications that use SiPMs. Presenter Slawomir S. Piatek is a senior university lecturer of physics at New Jersey Institute of Technology and has developed a photonics training program for engineers at Hamamatsu Corporation in New Jersey. Also at Hamamatsu, he is involved in popularizing SiPM as a novel photodetector by writing and lecturing about it and by experimenting with the device. Piatek earned a Ph.D. in Physics at Rutgers, the State University of New Jersey. This webinar is presented by Hamamatsu Corporation. Register Now

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