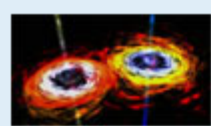


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Atom Optics Comes of Age



NASA is funding atom interferometry, a variation on the 200-year-old optical technique, in the belief that the emerging, highly precise measurement technology will allow the detection of ripples in space-time and other imperceptible events. NASA Goddard Space Flight Center will work on the project with Stanford University and AOSense Inc. "I've been following this technology for a decade," said NASA Goddard's Bernie Seery. "The technology has come of age. With this funding and other support, we can move ahead more quickly now."

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Study Finds 1 Million UK Jobs Depend on Physics

Four percent of employees in the UK – more than 1 million people – work in physics-based businesses, a sector that could recreate the nation's economy, a recent study by the Institute of Physics found.

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Fishy Felon Breaks a Law of Physics

A multilayer crystalline structure used by silvery fish to evade ocean predators bends the laws of physics and could be the key to developing better optical devices.

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Inrad Optics, IBC Advanced Alloys to Collaborate

Vancouver-based IBC Advanced Alloys Corp. and Inrad Optics Inc. of Northvale, N.J., signed a deal to identify alternative uses for IBC's proprietary alloys.

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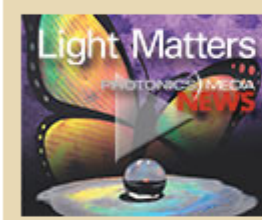
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In this week's edition of the industry's premier weekly newscast: twisted light is created on a chip, self-cleaning waterproof optics are pursued, atom optics comes of age, superparticles are shaped from nanorods, and we bring you some notable business news. Hosted by Photonics Media's Melinda Rose and Ashley Rice.

Optical Vortex Beams Emit on Silicon

The smallest emitter of orbital angular momentum (OAM) light – light that travels in a twisting, corkscrew-like manner – was created on silicon. The chip is one thousand times smaller than any other such device reported to date and could be used in optoelectronics and communications technology.

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OSA: Attendance Up at Frontiers in Optics 2012

Frontiers in Optics 2012, the Optical Society's (OSA) 96th annual meeting, attracted more than 1700 attendees – a significant increase over last year, the society reported.

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Space Photonics Licenses Tech to Schott

Space Photonics Inc. signed an exclusive licensing agreement with Schott North America Inc. to commercialize its optical communications technology for US military and intelligence customers.

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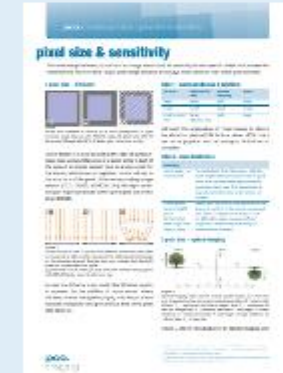
Superparticles Shaped from Nanorods

A new technique for growing complex superparticles from self-assembling nanorods could create a new generation of polarized LEDs.

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Featured White Paper



Pixel Size & Sensitivity
PCO-TECH Inc.

The relationship between pixel size of an image sensor and its sensitivity is discussed in detail to illuminate the reality behind the myth that larger pixel image sensors are always more sensitive than small pixel sensors.

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2012 Webinar Series - Expert Briefings

Photonics in Space Applications
Thursday, November 15, 2012 – 1 p.m. EST/ 10 a.m. PST/ 1700 GMT/UTC

Photonics Media will host Dr. Joseph M. Howard, lead optical designer, James Webb Space Telescope, NASA Goddard Space Flight Center; "The Optics of the James Webb Space Telescope," as well as Dr. Alexander M. Rubenchik, Lawrence Livermore National Laboratory, "The Promise of Pulsed Lasers in Removing Orbital Debris."

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Industry Events

VISION 2012 - November 6 - 8, 2012 · Stuttgart, Germany
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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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APOMA Fall 2012 Optical Manufacturing Workshop - November 12 - 13, 2012 · Tucson, AZ



The American Precision Optics Manufacturers Association (APOMA) annual fall optical manufacturing workshop will include workshops and demonstrations featuring seven optical equipment manufacturers; bound and loose abrasive grinding; optical pitch and polishing pads; optical materials; optical tolerances, and; metrology. The event will take place at the University of Arizona, Optical Science Building. Cost for the event is \$150 and includes a light breakfast and lunch each day, as well as a reception and facilities tour on Monday evening.

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