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Microphone Listens with Light

The sensitivity of the optical position sensor developed at SINTEF's MiNaLab is based on the optical phenomena of interference and diffraction. Exploiting this combination enabled researchers to use the sensor to measure movement of less than the diameter of an atom. Enabled by this technology, a microphone will be able to "see where the sound comes from, pick up the voice of the person speaking, and filter out other sources of noise in the room," said Matthieu Lacolle, an information and communication technology researcher at SINTEF.





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VC Fund Invests in Photonics Tech

Quantum Wave Fund, a global venture capital fund that focuses on physics and material sciences, announced it will invest a total of \$7 million in Nano-Meta Technologies Inc. of Indiana, Centice Corp. of North Carolina, and Estonia-based Clifton.





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QD Method Combines Best of Optical, Electron Microscopy

A fast, versatile and high-resolution technique that combines the best of optical and scanning electron microscopy could provide surface and subsurface viewing of features as small as 10 nm in size.

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<div style="display: flex; align-items: center; margin-bottom: 10px;">  <div style="margin-left: 10px;"> <p>Cold Atom Cells Triad Technology Inc.</p> </div> </div>	<div style="display: flex; align-items: center; margin-bottom: 10px;">  <div style="margin-left: 10px;"> <p>OPAL IR System Image Science Ltd.</p> </div> </div>

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Lynch Joins Headwall Photonics

The hyperspectral imager maker is expanding into Europe and has hired Kevin Lynch as European sales manager to support customers and partners in the region.





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Optical 'Antenna-in-a-Box' Catches Single Molecules

The device, capable of detecting and sensing individual molecules at high concentrations, could provide a better understanding of biological and biochemical reactions to detect early stages of disease, say researchers in Barcelona and France.





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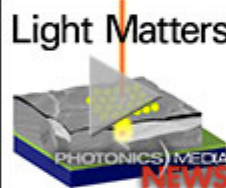





UAB Altechna Acquires Optida

Laser optics, optoelectronics and laser components maker UAB Altechna bought a major share in the largest optical coating company in Lithuania for an undisclosed amount.

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





On this edition of the industry's **only weekly newscast**: light scattering and nanolithography combine for drug delivery, quantum dots bring together the best of optical and electron microscopy, laser-driven neutrons could neutralize nuclear smugglers, and a new metamaterial design aims to replace bulky optics. Hosted by Photonics Media's Laura Marshall and Melinda Rose.

Melles Griot Names Director of Global Prod Management

Michael Tenalio was named director of global product management for the Melles Griot Optical Systems Group, parent company IDEX Optics & Photonics announced, and will focus on growing the company's business and customer base in the life sciences, semiconductor, industrial, and safety and security markets.





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Laser-Driven Neutrons Could Thwart Nuclear Smugglers

A single short-pulse laser-driven neutron source at Los Alamos National Laboratory could make nuclear materials smuggled in shipping containers much easier to detect.





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Trumpf Expands Facilities in Switzerland

The \$17.8 million, 35,500-sq-ft facility doubles Trumpf Laser Marking Systems AG's current production floor space, needed to accommodate the 70 percent increase in orders for marking lasers over the previous year.

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Real-time Profiling for Focusing, M2, Divergence & Alignment
DataRay Inc.

Beam intensity profiling is an essential tool in many aspects of photonics. The precise intensity distribution in a focused laser beam is critical in many applications: flow cytometry, laser printing, medical lasers, and cutting lasers are just a few examples. Intensity profile measurements can characterize and improve a product or process, leading to substantial cost and time savings that can pay for the measurement instrument many times over. This white paper describes how the unique, patented, real-time multiple z-plane XYZTF capabilities of the BeamMap2 slit-scan profiler can speed and simplify laser assembly alignment.

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Photonics Media will host David J. Brady, the Michael J. Fitzpatrick Endowed Professor of Photonics at Duke University, where he leads the Duke Imaging and Spectroscopy Program. He will discuss "Computational and Compressive Raman Spectroscopy," reviewing coded aperture, multiwavelength and diffuse illumination Raman system design for ultraviolet, visible and SWIR systems. Brady also will discuss compressive sampling for infrared Raman spectroscopy.

Photonics Media also will host Dr. Prasant Potluri, CEO and co-founder of Centice. He will present a "Review of Key Applications of Raman Spectroscopy" to include identification of narcotics and explosives, counterfeit drug detection, quality control, raw material identification and manufacturing process improvements. Dr. Potluri also will discuss some limitations of Raman spectroscopy and opportunities for improvement.

SPIE Optics & Photonics 2013 - August 25 - 29, 2013 - San Diego, CA

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SPIE Optics + Photonics is the largest interdisciplinary technical conference in North America, presenting the latest research and technologies in solar, nano, optics, photonics and space optics. The conference's four symposia (Nanoscience + Engineering, Solar Energy + Technology, Organic Photonics + Electronics, and Optical Engineering + Applications) will offer more than 3200 presentations, including plenary and featured talks on topics such as metamaterials for molded optical wavefronts, asteroid-tracking and collision-mitigation, Kepler's search for Earthlike planets and nanoparticle technology to convert solar energy directly into saturated steam for sterilizing tools and waste. The show also will include more than 40 professional development courses, poster sessions, panel discussions and a tribute to H. John Caulfield.

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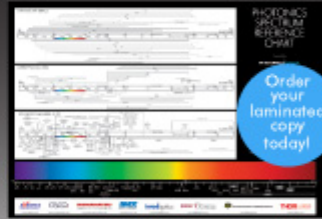
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