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CLEO:2013 **CLEO Presents Cutting-Edge Research on Optics, Lasers**
Smartphone-based cancer detection, a telecom-based time cloak and UV-LEDs that slow food rot are just a few of the cutting-edge applications of optics and lasers discussed this week at CLEO: 2013, the Conference on Lasers and Electro-Optics. More than 1800 technical presentations in five core event elements featuring breakthrough research and applied innovations in ultrafast lasers, energy-efficient optics, quantum electronics and biophotonics make CLEO the premier international forum for science and technical optics, say conference organizers The Optical Society, IEEE Photonics Society and the American Physical Society's Division of Laser Science.

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Metamaterial Flexible Sheets Could Transform Optics
An ultrathin, broadband and highly efficient metamaterial-based terahertz polarization converter developed at Los Alamos National Laboratory could replace bulky optical devices, improving IR thermal cameras, energy harvesting, and security screening and radar systems.

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Alfano Awarded Laser Science Prize
The City College of New York's distinguished professor of science and engineering received the 2013 Arthur L. Schawlow Prize from the American Physical Society for his contributions to the field of ultrafast laser science.

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Firefighter Robot Paints 3-D Thermal Imaging Picture for Rescuers
An image processing technique that allows small Segway-like robotic vehicles to create 3-D thermal images of burning buildings in real time could help firefighters better assess structures and plan rescue missions, say engineers at the University of California, San Diego.


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Couder Steps Down as Oclaro CEO
The laser and optical components manufacturer announced that Alain Couder, the company's chair and CEO, has retired and that board members Greg Dougherty and Marissa Peterson have been appointed CEO and chair, respectively, effective immediately.

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'Temporal Cloaking' for Communications
An alternative "temporal cloaking" method developed by Purdue University researchers using standard optical communications components has improved the time available for secure data transmission to nearly 46 percent, allowing digital data to be concealed at rates that could thwart would-be eavesdroppers and improve telecommunications security.

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On this edition of the industry's **only weekly newscast**: A live report from CLEO: 2013 includes interviews with researchers developing a cloak for communications and a method to detect viruses using on-chip optofluidics. Hosted by Photonics Media's Melinda Rose.

Daylight Solutions Licenses Mid-IR Tech to Corning
The quantum cascade laser-based systems provider has licensed its patented mid-IR technology to specialty glass and ceramics manufacturer Corning Inc. of Corning, N.Y., and is now in talks with several other companies interested in its intellectual property.

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Device Bridges Optomechanics, Microfluidics
The phenomenon of whispering galleries — circular spaces beneath a dome that capture and amplify sound as quiet as a whisper — has been applied to the development of an optomechanical sensor that could help unlock vibrational secrets of chemical and biological samples at the nanoscale. The device is the first-ever bridge between optomechanics and microfluidics, its developers at the University of Illinois at Urbana-Champaign say.

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Thorlabs Adds Scientific Cameras Through Acquisition
The acquisition of scientific camera maker Digital Video Camera Co. expands the company's life sciences portfolio, which it has invested heavily in over the past several years. DVC will now operate under the name Thorlabs Scientific Imaging.

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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.

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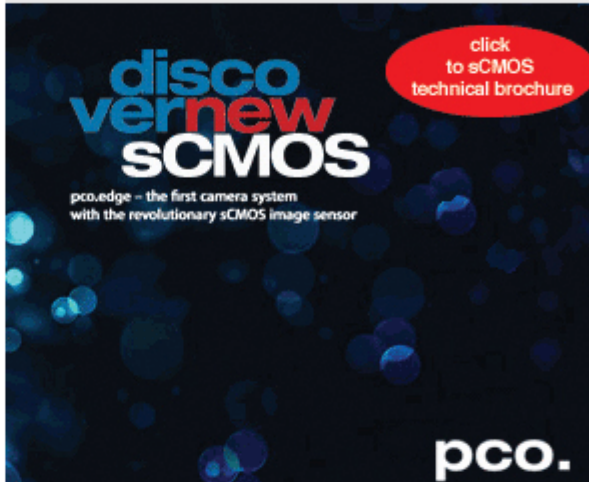
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