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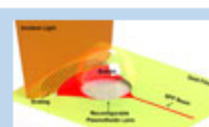
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Plasmofluidic' Lens is Tunable, Reconfigurable

Laser-induced bubbles on a metal film are the first demonstration of a plasmonic lens in a microfluidic environment. The unique integration could help in developing multifunctional plasmonic elements, highly sensitive biomedical detection systems, and on-chip, all-optical information processing. "In addition to its unprecedented reconfigurability and tenability, our bubble lens has at least one more advantage over its solid-state counterparts: its natural smoothness," said Tony Jun Huang, Penn State associate professor of engineering science and mechanics. "The smoother the lens is, the better quality of the light that pass through it."

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Liquid Crystal Matrix Slows Light to 1 Billionth of its Speed

Light can be slowed to less than a billionth of its top speed by using embedded dye molecules in a liquid crystal matrix, says a team from France and China, which could lead to new technologies in remote sensing and measurement science.

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Grant Aims to Make Record-Short Laser Pulse Stronger

University of California, Berkeley, physics professor Zenghu Chang and his team, which generated a 67-attosecond pulse of extreme UV laser light last summer, have received a \$6.9 million DARPA grant to make the pulse 1000 times stronger.

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Coherent's Dieburg Lab Achieves ISO-IEC Certification

The laser maker's laser power and energy calibration laboratory in Dieburg, Germany, joins its Wilsonville, Ore., lab in achieving ISO-IEC 17025:2005 accreditation.

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Liquid Crystal Tied Into Knots to Advance Photonics

Using a miniature Möbius strip made from silica particles, scientists at the University of Warwick showed how to tie liquid crystals in knots. They hope to harness crystals in the next generation of advanced materials and photonic devices by understanding the intricate configurations and properties of the substance.

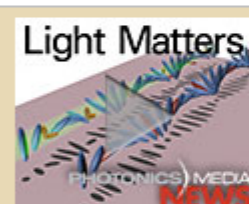
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Photonics Pros Love Their Work, Survey Shows

The percentage of respondents reporting high job satisfaction surpassed last year's 82 percent in a new salary survey of the global optics and photonics community conducted recently by SPIE.

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On this edition of the industry's **only weekly newscast**: plasmonics and microfluidics combine in a tunable lens, a liquid crystal matrix slows light to one billionth of its speed, and the deadline for entering the "Oscars of Photonics" is in September. Hosted by Photonics Media's Laura Marshall and Melinda Rose.

Boeing's Laser Beam Deemed Battle-Worthy

The defense contractor's new system integrating a series of high-power industrial lasers to generate one concentrated, high-energy beam exceeded required thresholds for power and beam quality during a demonstration for the Department of Defense's Robust Electric Laser Initiative (RELI).

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UA Arizona Presents Power of Optics to Congressman

As part of the National Photonics Initiative, Rep. Ron Barber visited the University of Arizona's College of Optical Sciences and met with students, faculty, and local business leaders to discuss the benefits of photonics and the role that the university is playing in the field.

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Photonics Firm a Finalist in Nokia Sensing Contest

A technology firm founded by UCLA professor Aydogan Ozcan and his students made it to the final round of a \$2.25 million international competition for companies improving health care by developing advanced, consumer-friendly sensing devices.

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Industry Events

Lasers for Manufacturing Event (LME 2013) - September 11-12, 2013 - Schaumburg, Ill.

Visit Photonics Media at Booth 1026



The mission of the Laser Institute of America's (LIA) Lasers for Manufacturing Event (LME®) 2013 is to provide a one-stop event for companies interested in integrating laser technology into their production. LME is the place to view the most up-to-date laser equipment and find information about automation equipment, laser choices, beam delivery, safety considerations, applications development. Attendees also have the opportunity to meet exhibitors that supply these products and services.

Keynote sessions, open to all attendees, will cover: Ultra-high Brightness Direct Diodes, The Range of Laser Processing Applications in Industry, The Market for Industrial Lasers and Applications and Ultrafast Lasers - Are we There yet? Free educational courses include Main Laser Types Used for Manufacturing - Key Properties and Key Applications, Laser Safety for Industrial Laser Systems, Design Considerations for Industrial Laser Systems and Economic Justification for Laser Applications.

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IEEE Photonics Conference 2013 - September 8 - 12, 2013 - Seattle, WA

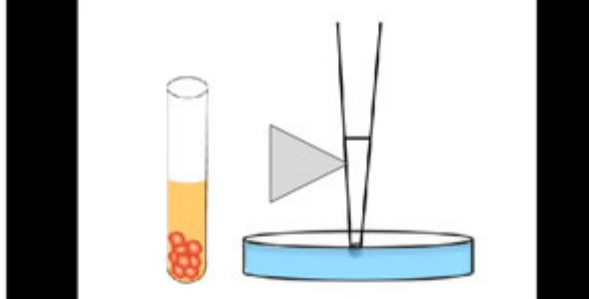


The unveiling of breakthroughs in photonics will top the agenda when the world's leading technologists in the field convene in the Seattle area in September for the annual IEEE Photonics Conference (IPC-2013), formerly called the IEEE LEOS Annual Meeting.

Some 600 scientists, engineers and technical managers will gather from September 8-12 at the Hyatt Regency Bellevue Hotel for an IPC-2013 program of invited talks, paper presentations, panel sessions, special symposia, networking opportunities, and a product showcase.

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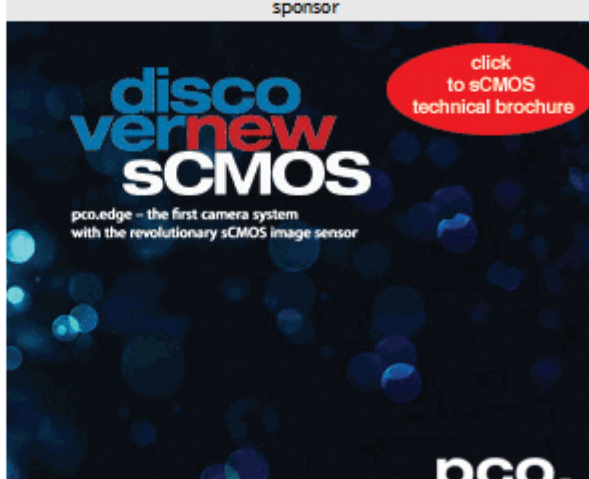
FEATURED VIDEO



Applied Scientific Instrumentation
MPPI-3 Microinjector

Microinjection of Zebra fish larvae with ASI's MPPI-3 microinjector. This video outlines the steps required to inject fluorescently labeled probes into Zebra fish larvae. The techniques used are common to microinjection of other samples, and allow noninvasive monitoring of pathogens within the environment of a complex host, as well, as cellular development. Applied Scientific Instrumentation (ASI) www.asiimaging.com

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