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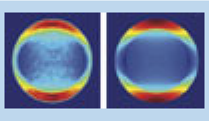

Spectroscopy Method Could Lead to Better Optical Devices

A new spectroscopy method developed by a multi-university team takes advantage of a fundamental property of thin films — interference — and could help make better use of these materials in optical devices like LEDs and solar cells. "The key difference in our technique is we're looking at the energy as well as the angle and polarization at which light is emitted," said Rashid Zia, assistant professor of engineering at Brown University and one of the study's lead authors. "We can relate these different angles to distinct orientations of emitters in the film. At some angles and polarizations, we see only the light emission from in-plane emitters, while at other angles and polarizations, we see only light originating from out-of-plane emitters."

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Creator of GRIN LED Wins Lemelson-Rensselaer Student Prize

Ming Ma, a doctoral student in materials science and engineering at Rensselaer Polytechnic Institute who developed a method to manufacture brighter, more energy-efficient LEDs, is the recipient of the $30,000 2013 Lemelson-Rensselaer Student Prize.

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Light's Polarization States Measured Directly

The polarization states of light can be measured directly, investigators from the universities of Rochester and Ottawa discovered. The ability to perform direct measurement of the quantum wave function has important future implications for quantum information science.

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New Scientific ICCD Camera
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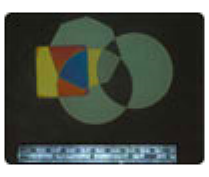

RAPtor Applied Polymer Retarder
Meadowlark Optics

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OSA, Industry Groups Gather to Showcase Optics, Photonics

Leaders in the optics and photonics community joined The Optical Society (OSA) Feb. 28 for a daylong event showcasing how optics and photonics can enable innovation, solve problems, facilitate economic growth and improve lives.

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IR Camera Detects Main Cause of Acid Rain

A new infrared camera that detects sulfur dioxide — a main cause of acid rain — and other pollutants could help scientists identify and control such emissions at an early stage, before significant damage is done, say its creators in Madrid.

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Outlook Bright for UK Manufacturing

Six grants from the Engineering and Physical Sciences Research Council totaling about $18 million were awarded to four new research centers that promise to improve manufacturing, including "the Light Controlled Factory" that seeks to foster use of lasers and optical methods for measurement and control of machines in manufacturing.

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In this edition of the industry's premier weekly newscast: The US science community braces for budget cuts under the sequester, the outlook is bright for UK manufacturing, a landmark research investment in Ireland includes photonics, the uncertainty principle has some uncertainty of its own, and the world's largest fiber optic network is underway at Sandia National Lab. Hosted by Photonics Media's Melinda Rose and Laura Marshall.

Manipulating Light on Superconducting Chips

Light manipulated on a superconducting chip using a switch that shapes released photons in different waveforms could forge new pathways to building the quantum devices of the future — including superfast and powerful quantum computers. The unprecedented level of on-chip light manipulation was achieved at the University of California, Santa Barbara.

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IPG Photonics Adds 3 to Management Team

Trevor Ness was promoted to senior vice president worldwide sales and marketing and will continue to supervise Asia operations. Also, David Gray was appointed vice president — strategic development and systems solutions; and Yuri Erokhin was appointed vice president — strategic marketing.

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Photonic Integration Hot Topic at OFC/NFOEC 2013

Photonic integration, cloud and data center networking, and optical and wireless convergence are three of the many hot topics to be discussed March 17-21 at the Optical Fiber Communication and Conference Exposition/National Fiber Optic Engineers Conference (OFC/NFOEC) 2013 in Anaheim, Calif.

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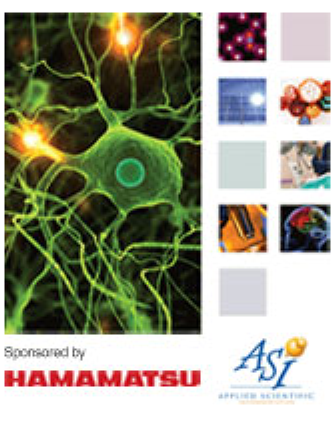
PROMOTION



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Photonics Media will host:

Dr. Kimani C. Toussaint Jr.
Quantitative Imaging of Collagen Fibers Using Second-Harmonic Generation
University of Illinois, Photonics Research of Bio/Nano Environments (PROBE) lab group

Dr. Melissa Skala
Photothermal Optical Coherence Tomography of Nanoparticle Contrast Agents
Vanderbilt University School of Engineering, Optical Imaging Laboratory

Dr. Ofer Levi
Multimodal Optical Neural Imaging with VCSEL Light Sources
University of Toronto, Institute of Biomaterials and Biomedical Engineering

Industry Events

OFC/NFOEC 2013 - March 17 - 21, 2013 · Anaheim, CA

The Optical Fiber Communication Conference and Exposition and the National Fiber Optic Engineers Conference (OFC/NFOEC) is the premier international event for both the science and business of optical communications and networking. It features more than 110 short courses, over 550 exhibitors and 750 technical papers covering technologies and applications in cloud and data center networking, space division multiplexing, 1 TB and beyond optical networking, flexible grid networks, convergence of optical and wireless networks, 100 G/400 G network design and optimization, and more.

MORE INFO >>

PITTCON 2013 - March 17 - 21, 2013 · Philadelphia, PA
Visit us at Booth 2719

Pittcon is the world's largest annual conference and exposition for laboratory science. It features the latest technology and instrumentation from over 900 exhibitors and more than 2000 technical presentations that cover topics such as life sciences, drug discovery, nanotechnology, biomedical, environmental, homeland security, food science, forensics, agriculture and biomass. The event will also include a keynote lecture by R. Michael Barnett of Lawrence Berkeley National Laboratory, short courses in over 50 topics, poster and networking sessions, and the Waters Symposium, which will recognize the commercialization of chemical imaging. Nobel Laureate Sir Harold Kroto will be the Wallace H. Coulter Plenary Lecture speaker for Pittcon 2013.

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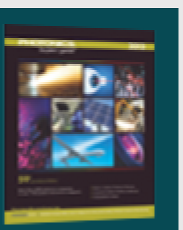
PHOTONICS buyers' guide



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- Cooled CCD Cameras
- Electromechanical Shutters
- Galvanometric Scanners
- Imaging Arrays
- Infrared Telescopes

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