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.: Top Stories

Detection

Microscope A team from the University of Sheffield has designed and built a

Scientists Publish Blueprints for Cheap Single-Molecule

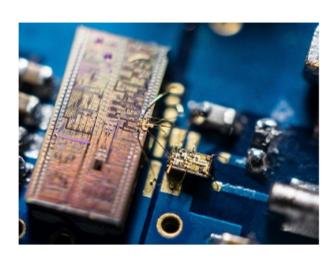
single-molecule microscope for one-tenth the cost of commercially available models — and shared the build instructions to make the equipment more readily available. The microscope, called the smfBox, is able to image at single-molecule resolutions. Read Article



Researchers from the University of Bristol have claimed a new record for detecting squeezed light, using a newly developed balanced

Researchers Claim New Record in Quantum Light

homodyne detector. The work could pave the way for higherperformance quantum computers and quantum communications. Read Article



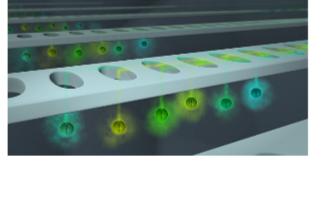
control and measure atoms that are indistinguishable when observed

Researchers Devise Method to Observe Atomic

Interactions, Quantum Mechanics

with an optical lens. The work allows the researchers to observe atomic interactions and quantum mechanical behavior. The research has implications for quantum networking and the study of the fundamental dynamics of strongly interacting quantum systems. Read Article

Researchers from Princeton University have formulated a method to



Emerging, Prominent Trends in Optical Fabrication, Manufacturing Converge in Optics

Photonics Spectra Conference



KEYNOTE: How Current Trends in Optics Are Lighting the Path to Turn Science Fiction into Science Fact

Presented by: Jessica DeGroote Nelson, OPTIMAX Systems

Conference's Optics Track. In introducing optical innovations, DeGroote Nelson will deliver a presentation on the prevalence

of optical technologies across all facets of our world — through a lens that looks closely at how optics and photonics may be moving prophecies in science fiction closer to scientific fact. Additional sessions will be led by Andrea Armani, the Ray Irani Chair in Engineering and Materials Science and professor of chemical engineering and materials science at the USC Viterbi School of Engineering, and Edmund Optics' Jayson Nelson

and Shawn Iles. Conference attendees will participate in sessions spanning optics manufacturing and fabrication, as well as optical systems design. With a focus on all corners of the optics space, presenters from industry and academia will share the latest in prominent topics in metrology, coatings, optical design, and beyond. For more information and to register, www.photonics.com/pscinfo.

free for the event, which is offered exclusively online.

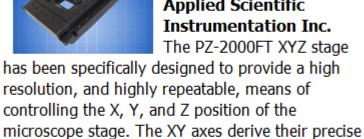
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The inaugural *Photonics Spectra* Conference starts on Tuesday, Jan. 19, and runs through Friday, Jan. 22. Registration is

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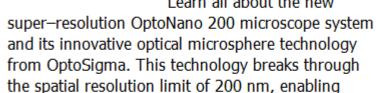
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CONFERENCE: 6 - 10 DECEMBER

EXHIBITION: 7 - 9 DECEMBER



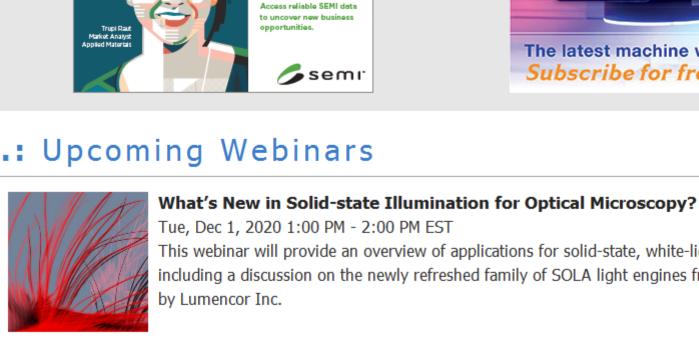
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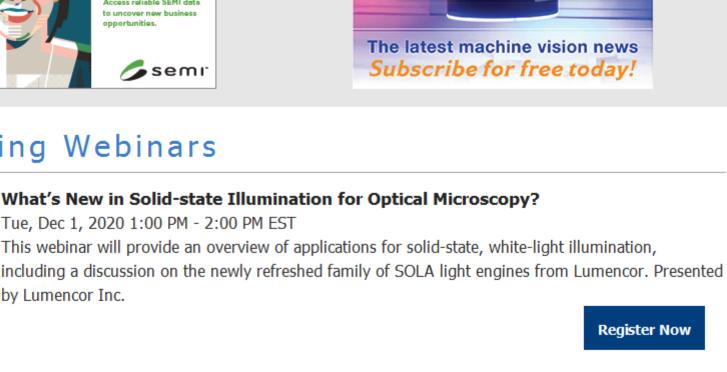
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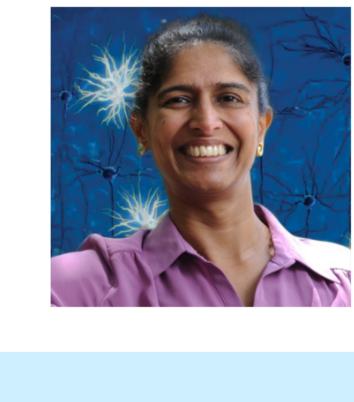




.: All Things Photonics

Vice president of the International Society for Optics and Photonics (SPIE) Anita Mahadevan-Jansen shares her journey in and throughout biomedical imaging and biophotonics, including the discovery of infrared neural stimulation — and working alongside her husband.

Garrett Cole, from Thorlabs Crystalline Solutions, stops by to chat about limiting quantum noise in laser beams, high-precision optics, and his presentation in the upcoming *Photonics Spectra* Conference. Listen Now





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