







Hyperfine Spectrometer A sub-picometer resolution

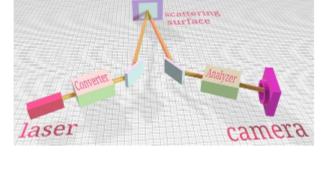
spectrometer in a compact package.

.: Top Stories

Researchers at the University of Waterloo report the first successful

Quantum Coherence Transferred in Free Space

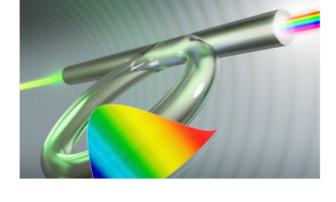
transfer and recovery of quantum coherence using photons scattered in free space. The work points toward research opportunities and applications in fields ranging from quantum communication to imaging and beyond. Read Article



Rochester Researchers Use Spectral Filter in Kerr Resonator to Create Highly Chirped Laser Pulses

laser pulses using a spectral filter in a Kerr resonator. The pulses created in the work remained stable in low quality-factor resonators, despite large dissipation. Read Article

Researchers have produced ultrashort, extremely high-energy (chirped)

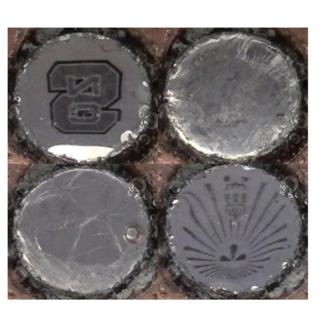


liquid metal between reflective and scattering states. The technology

Liquid Metal Enables Switchable Mirrors

could one day be used to create electrically controllable mirrors or illumination devices. Read Article

Researchers have demonstrated the ability to switch the surface of



Presentation: "Commercial High-Resolution Quantum Dot SWIR Sensors and Cameras for Industrial Automation Markets"

Vision Spectra Conference

Presented by: Ethan Klem, SWIR Vision Systems Industrial cameras capable of imaging objects in the shortwave IR (SWIR) range are attracting

as higher resolutions, wider fields of view, and significantly broader imaging bandwidths. QD cameras are also inherently lower cost than equivalent-resolution InGaAs-based cameras, so they often translate to a lower-cost total system solution.

increasing interest for applications in food, pharmaceutical, and other industries. While InGaAs sensors gained an early foothold, imaging sensors based on quantum dots (QDs) are introducing unique advantages — such

In his presentation, Ethan Klem introduces attendees to QD sensor technology, and discusses how it works and how it compares to InGaAs-based SWIR sensors. He also discusses key imaging applications and best practices when implementing QD cameras within a broad range of machine vision, automation, defense, and scientific imaging applications.

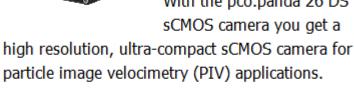
online. For more information and registration, please visit www.photonics.com/vsc2021. Continued coverage of this inaugural event will also be available on vision-spectra.com and Photonics.com leading up to the conference.

The inaugural *Vision Spectra* Conference runs July 20 - 22. Registration is free for the event, which is offered exclusively

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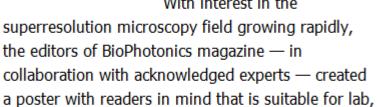
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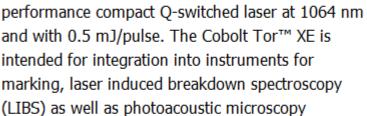
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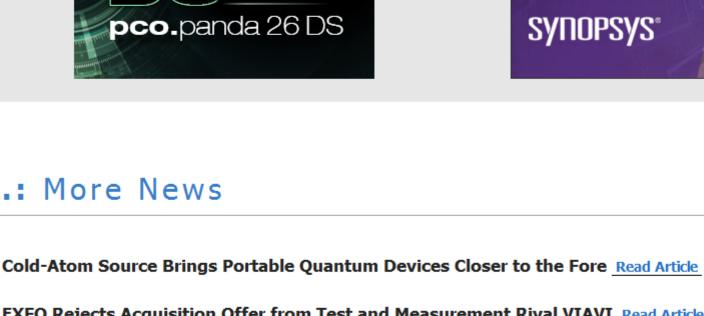
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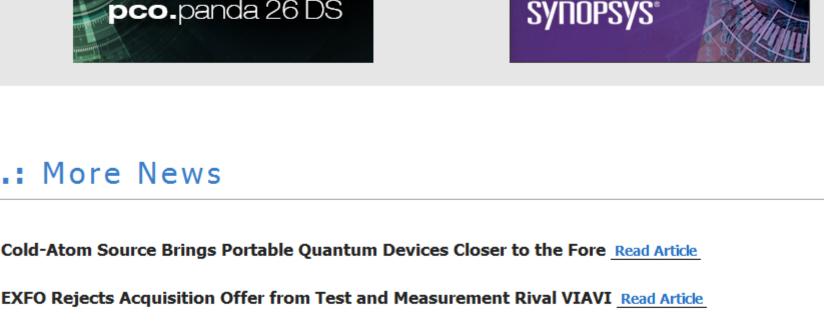
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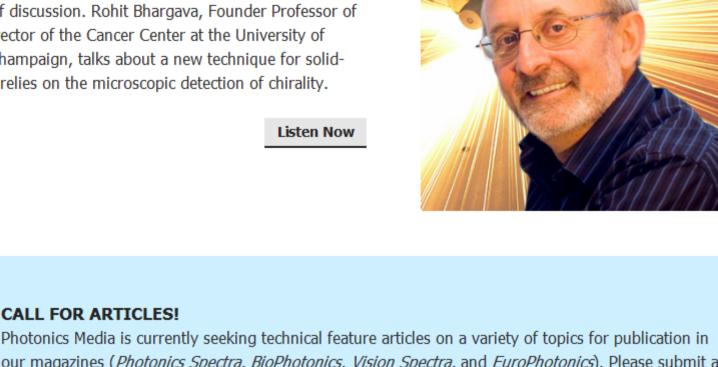
20-24 February 2022 San Diego, California USA

SUBMIT ABSTRACTS BY

.: All Things Photonics

In the season's final episode, John Harvey, founder and CEO of Southern Photonics, shares his journey from nuclear physics to biophotonics, and from lasers to test and measurement equipment. The state of the photonics industry in Australia and New Zealand is

among the points of discussion. Rohit Bhargava, Founder Professor of Engineering and director of the Cancer Center at the University of Illinois at Urbana-Champaign, talks about a new technique for solidtissue imaging that relies on the microscopic detection of chirality. Listen Now





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