

This Week in PHOTONICS

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Extend the range of your LiDAR innovation with NEW Generation 2, 905nm Pulsed Laser Diodes

• 20% Output gain • Improved power efficiency • High-volume affordability

EXCELITAS TECHNOLOGIES

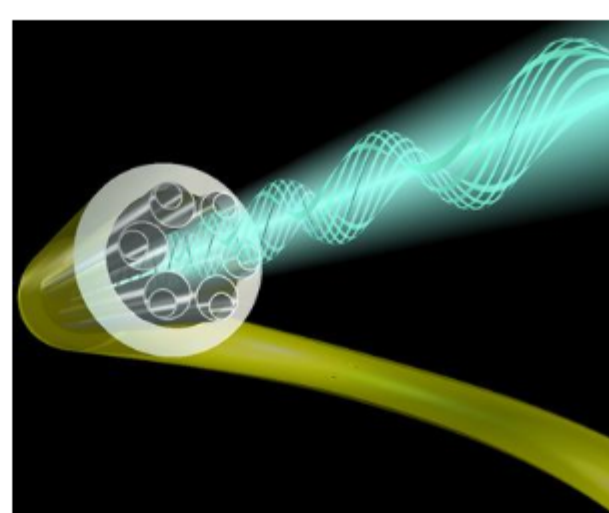
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Hollow-Core Fibers Outperform Silica Glass Counterparts

Researchers from the University of Southampton Optoelectronics Research Centre (ORC) have introduced three unique hollow-core fiber designs that each exhibit losses comparable to or lower than those that solid glass fibers are able to achieve around wavelengths of 660, 850, and 1060 nm.

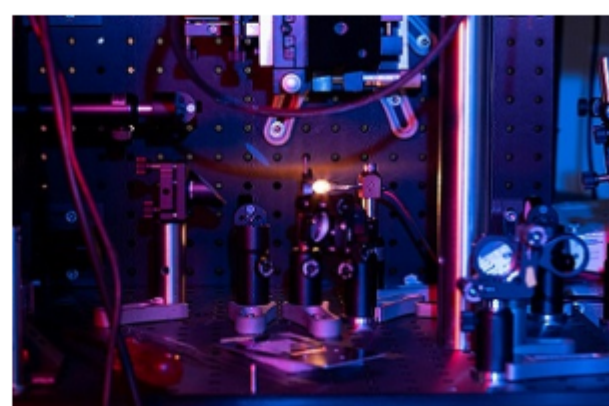
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CRIMSON Project Aims to Develop Next-Gen Microscope

Researchers have begun work on the CRIMSON project, an effort to develop advanced laser-based coherent Raman scattering microscopy. The transdisciplinary, transnational project aims to develop and introduce a tool capable of creating three-dimensional quantitative maps of subcellular compartments in living cells and organoids.

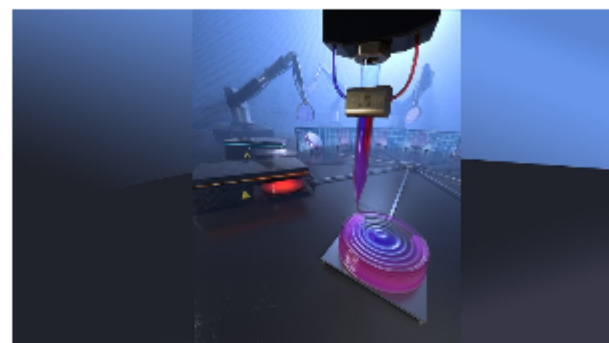
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3D Printing Offers Versatility in Optical Design

Researchers at Lawrence Livermore National Laboratory (LLNL) used multimaterial 3D printing to develop tailored gradient refractive index glass optics, delivering a result that could enable the manufacture of improved military specialized eyewear and virtual reality goggles.

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.: Photonics Spectra Conference



Particle-Correlated Raman Spectroscopy (PCRS) for Forensic Analysis
Presentation: Optimizing Particle-Correlated Raman Spectroscopy Methods for Forensic Soil Mineral Analysis
Presented by: Brooke W. Kammrath, University of New Haven

Associate Director of the Henry C. Lee Institute of Forensic Science Brooke W. Kammrath presents on particle-correlated Raman spectroscopy (PCRS), exploring its role in forensic soil and crime scene analysis. Kammrath discusses the technique, which enhances the ability of investigators to use soil-based evidence, including tire tread and shoe marks, to investigate cases.

The presentation is one of more than 20 sessions in the Spectroscopy track of the inaugural *Photonics Spectra* Conference — and one of more than 70 overall. Presentations from experts throughout industry and academia, working in optics, lasers, biomedical imaging, and spectroscopy, will introduce the latest trends and technologies from across the photonics landscape. Registration remains open.

The inaugural *Photonics Spectra* Conference starts on Tuesday, Jan. 19, and runs through Friday, Jan. 22. Registration is free for the event, which is offered exclusively online.

For more information and to register, www.photonics.com/psinfo.

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.: Featured Products



2MP Global Shutter MIPI Module

Teledyne e2v - UK

The 2M compact optical module features a pre-focused, industrial-grade scanning optic and finds uses in a variety of scanning, embedded vision and computer vision applications to enhance productivity and throughput in logistics, sorting, retail POS, and many other industrial sectors.

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Generation 2 905 nm High-Volume Pulsed Semiconductor Laser Diode

Excелitas Technologies Corp.

The New Excелitas Generation 2 905 high Volume Pulsed Semiconductor Laser Diode emitting at 905 nm in the near infrared features a multi-layer monolithic chip design. With an optical emitting area of (225 x 10) μm by emission of three laser lines, the Generation 2 905 PLD offers high output power in a small emitting area.

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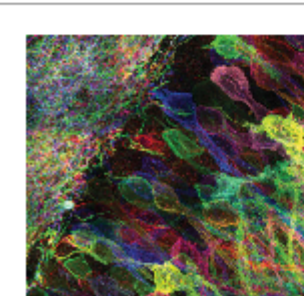
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.: Upcoming Webinars



Optical Tools for Analyzing and Repairing Complex Biological Systems

Tue, Dec 15, 2020 12:00 PM - 1:00 PM EST

Ed Boyden, Ph.D., and his research group at MIT are discovering new optical principles that enable such technologies. In this webinar, Boyden will share examples of such tools and how they are propelling neuroscience.

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