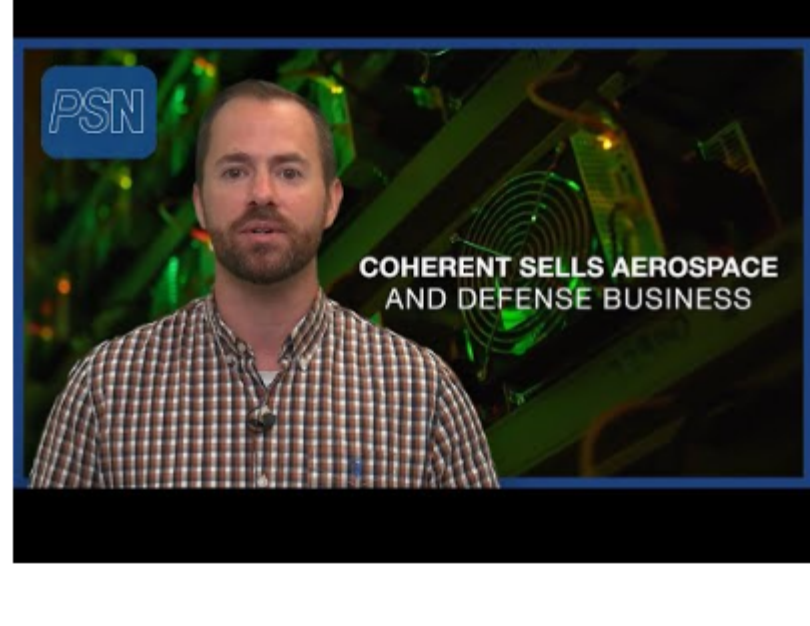




Weekly News

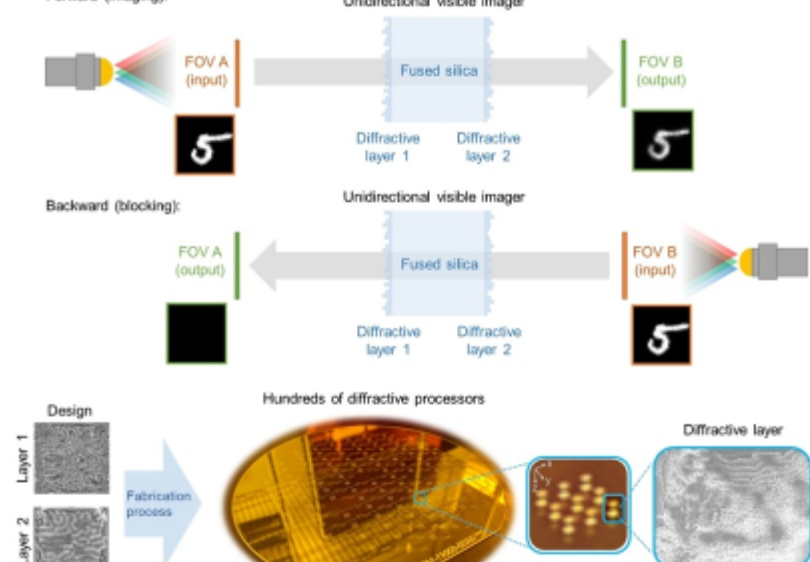


Coherent Sells Aerospace and Defense Business, Capturing Particles Faster Than A Speeding Bullet

Coherent announces plans to sell its Aerospace and Defense business for \$400 million. Belgian PIC design software developer, Luceda, has been acquired by China's Semitronix Group. Scantinel Photonics has filed for insolvency. Evident, a leading manufacturer of digital pathology solutions, has agreed to acquire health tech company, Pramana. In Dublin a new machine will allow researchers to see what happens when tiny particles impact a given surface. And a

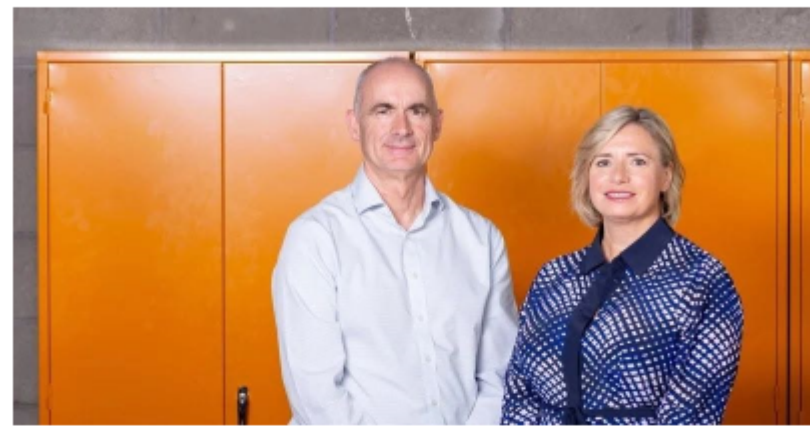
superresolution imaging technique is enabling a full range of biological mechanism imaging. Sponsored by Thorlabs.

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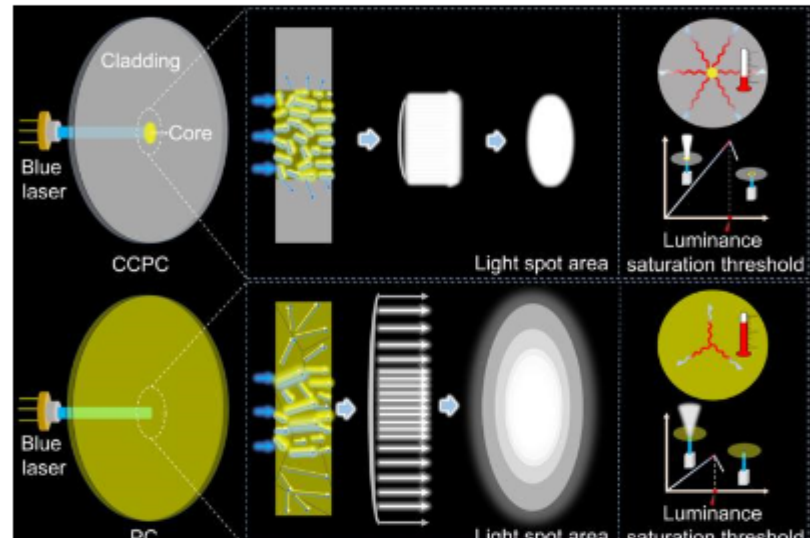
Multi-Layer Diffractive Optical Processors Enable Unidirectional Visible Imaging

Used in optical computing and computational imaging, diffractive optical processors and metasurfaces are flourishing within the computing industry. The demonstrations of these materials are constrained to 2D implementations and longer wavelengths due to the fabrication challenges of nanoscale features in 3D diffractive architectures. [Read Article](#)



PowerPhotonic Secures \$3.5M to Fuel Expansion

Wafer-scale optics designer and manufacturer PowerPhotonic has received a combined £2.6 million (\$3.5 million) investment to help scale its U.K. and U.S. operations. The funding follows £2.7 million in investment received over the last two years. [Read Article](#)

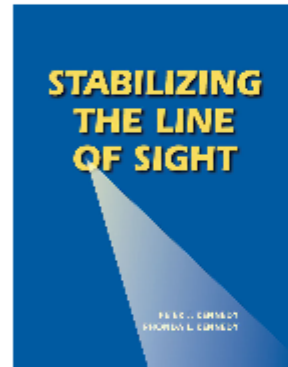


Phosphor Ceramics Design Delivers High Luminance from Blue Lasers

With the goal of achieving ultrahigh luminance performance by using blue lasers to excite phosphor materials, a team at Xiamen University, led by professor Rong-Jun Xie, fabricated core-cladding phosphor ceramics (CCPC). The team's design for CCPC was inspired by the architecture of optical fibers. [Read Article](#)



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On-Demand

Quantum sensing leverages the fundamental quantum behavior of atoms and light to measure weak signals with precision beyond that of classical methods. These measurements make use of trapped ions and cold atoms, and include applications with regard to magnetic field sensing, optical atomic clocks, and quantum gravimetry. Critical to these techniques are ultra-cold temperatures, coherent quantum control, and sensitive optical readout, which pose significant hardware challenges with regard to laser stabilization, timing, and noise suppression. During this presentation, find out how to generate and detect synchronized RF pulse trains, such as a Ramsey sequence, using a software-

defined waveform generator and lock-in amplifier. Plus, see new ways to stabilize your systems with a laser lock box and measure clock stability with a phasemeter, using a reconfigurable suite of instruments in a single device. Finally, in a live demonstration, learn how to deploy these instruments simultaneously for maximum flexibility, and how to use Python to interface with each. Presented by Liquid Instruments.

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All Things Photonics



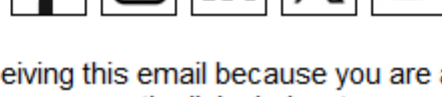
Summer Camp in the Sunshine State — With Mike McKee

Mike McKee, undergraduate advisor at the University of Central Florida's College of Optics and Photonics (UCF CREOL), and high school student Griffin Whiteside, a rising sophomore, discuss UCF CREOL's Laser and Photonics Summer Camp.

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