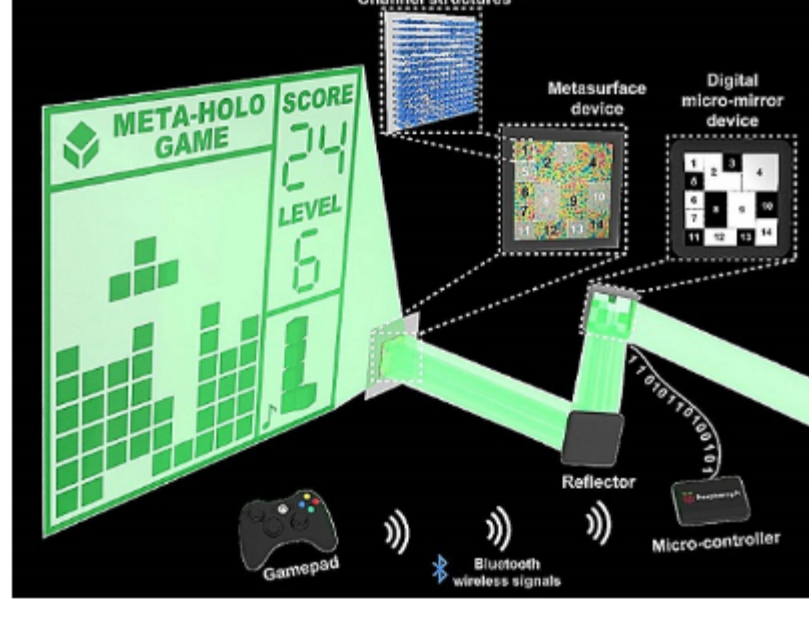




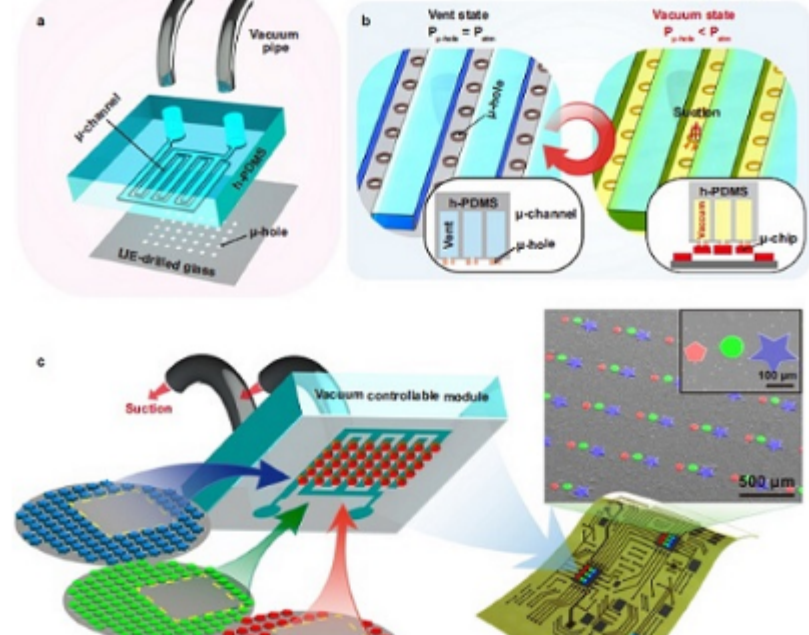
Weekly News



**Metasurface Technique Enables Advanced Holography Applications**

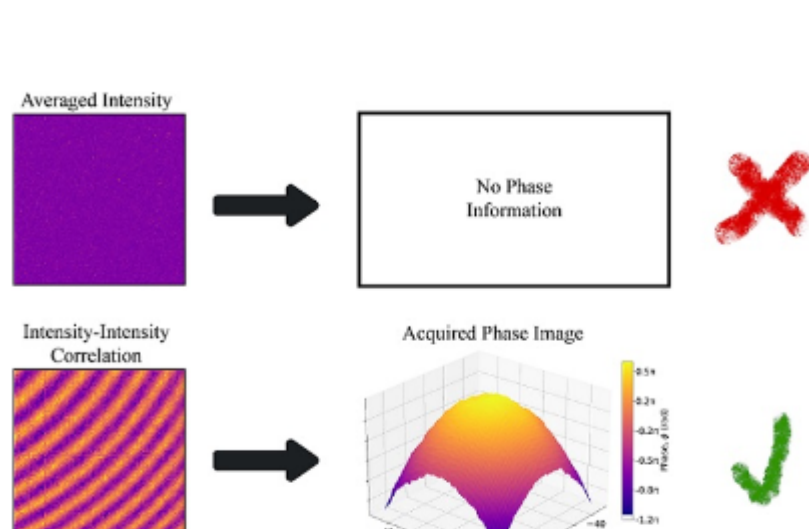
A team from the Wuhan National Laboratory for Optoelectronics at Huazhong University of Science and Technology has developed a technique which segments the display functionality of metasurfaces into distinct spatial regions or channels, with each capable of projecting a reconstructed sub-holographic pattern. The method, described as a dynamic interactive bitwise metasurface holography technique, achieves high computational and display frame rates, making it practical as an interactive metasurface

holographic display system. [Read Article](#)



**MicroLED Assembly Gets Boost from Vacuum-Assisted Transfer Printing**

Researchers at Korea Advanced Institute of Science and Technology (KAIST), led by professor Keon Jae Lee, developed a micro-vacuum-assisted selective transfer printing technology ( $\mu$ VAST). The technique transfers microLED chips in large numbers with an adjustable micro-vacuum suction force. [Read Article](#)



**Quantum-Inspired Method Reveals Details Hidden in Noise**

Researchers at the University of Warsaw's Faculty of Physics with colleagues from Stanford University and Oklahoma State University have introduced a quantum-inspired phase-imaging method based on light intensity correlation measurements that is robust to phase noise. The new imaging method can operate even with extremely dim illumination and can prove useful in emerging applications such as infrared and X-ray interferometric imaging and quantum and matter-wave interferometry. [Read Article](#)

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Latest Webinars

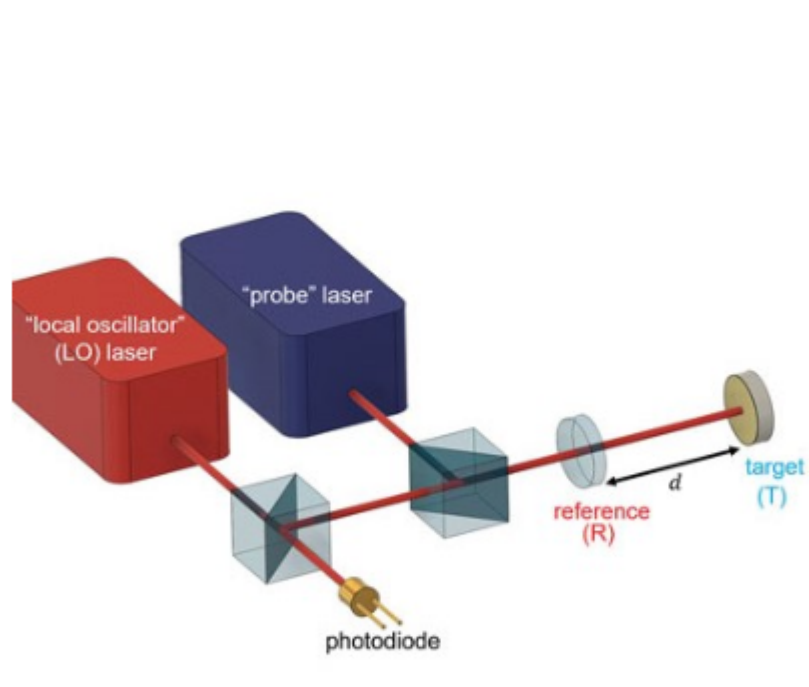


**Laser Application for Display Manufacturing**

**Tue, Jan 16, 2024 10:00 AM - 11:00 AM EST**  
 Displays are windows into the connected world as nearly every consumer device today has a display and a smartphone without one is impossible to imagine. To produce state-of-the-art displays lasers must be utilized, especially to create high-end and high-resolution designs. Dr. Oliver Haupt from Coherent focuses on OLED displays for smart phones as well as the adoption of OLED displays in the IT sector. He also addresses the incremental market opportunity for MicroLED displays from the very small range in AR to the very large 4K TV market. Finally, he explains how over the last few years more and more UV short wavelengths lasers have been required and implemented in production due to the display material combinations, increase of active display areas, and pixel sizes down to the micron level.

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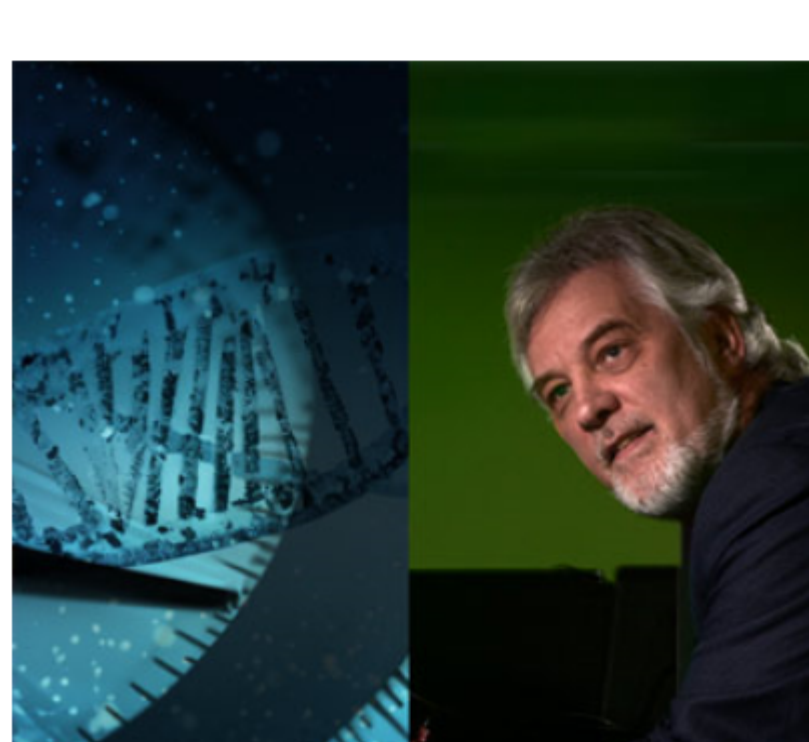


**Dual-Comb Ranging for Industrial Applications**

**Tue, Feb 13, 2024 10:00 AM - 11:00 AM EST**  
 Researchers developed a simplified variation of the dual-comb ranging (DCR) technique: two-photon dual-comb LiDAR, which allows data to be collected using time-tagging electronics. The switch from high-bandwidth digitization to time-tagging represents a significant reduction in the data burden associated with DCR. Despite the simplifications made, these demonstrations show comparable measurement precision to the conventional technique. In this webinar, Hollie Wright, Ph.D., discusses the technique and explains the many advantages it offers compared to conventional DCR. She shares results from various demonstrations including multi-target ranging and target pose sensing and shares as-yet unpublished results from demonstrations with non-cooperative targets. Finally, Wright discusses the outlook for the technique and future work plans.

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All Things Photonics



True understanding is accomplished only through precise measurement. Though practitioners in the field deploy numerous modalities to obtain this essential information, remote sensing incorporates a spectrum of photonics technologies that is as broad and diverse as it is ubiquitous and effective. **Joseph Shaw**, director of the Optical Technology Center at Montana State University, overviews remote sensing technology, with a focus on core and novel applications, as well as core methods. In a bonus segment, **Sanathana Konugolu Venkata Sekar**, cofounder of BioPixS, discusses the company's biophotonics phantom technology platform.

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