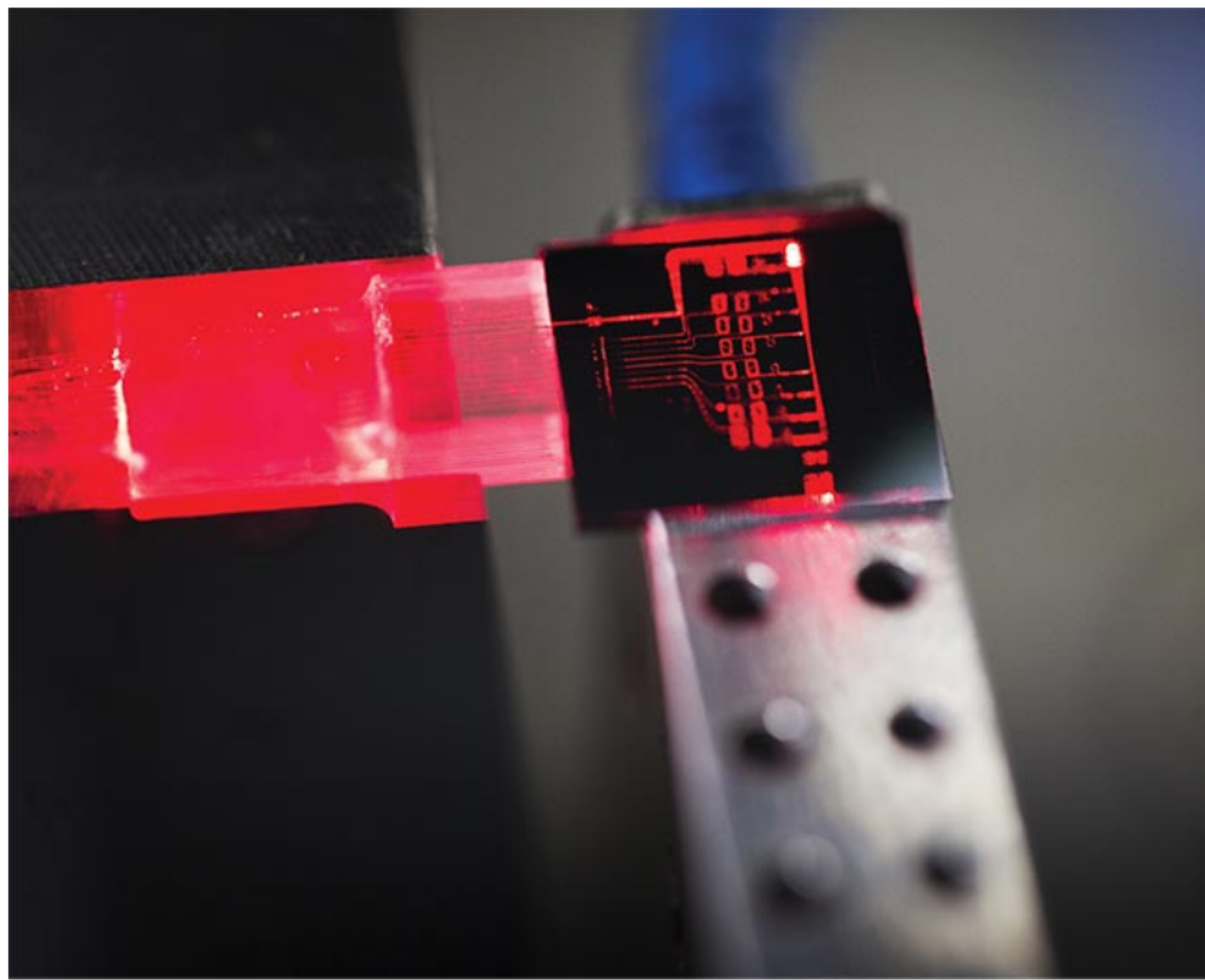




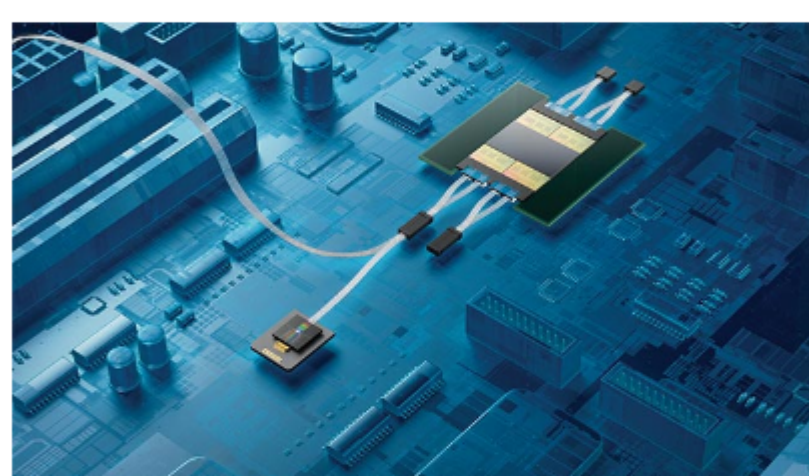
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As Biosensors Shrink, Their Potential Applications Grow

Early in his career, Benjamin Miller was focused on drug discovery and strategies for studying how potential medicines bind to their target proteins. There was only one problem: "All of the technology that was available for doing that was terrible," said Miller, a biochemist and engineer at the University of Rochester. "So, we decided to start working to fix the problem." [Read Article](#)



Photonics Reshapes the Future of Computing

Moore's law has been challenged many times during the past sixty years, but semiconductor engineers always found new tricks to continue doubling the density of transistors on a chip. In the meantime, the cost to do so has skyrocketed. Today, chip makers create structures on silicon chips that are as thin as a few atoms. It will not be long before physics prevents these structures from getting any smaller. [Read Article](#)

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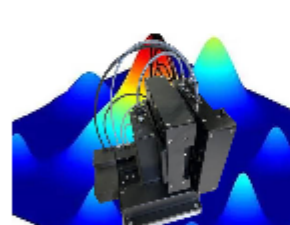
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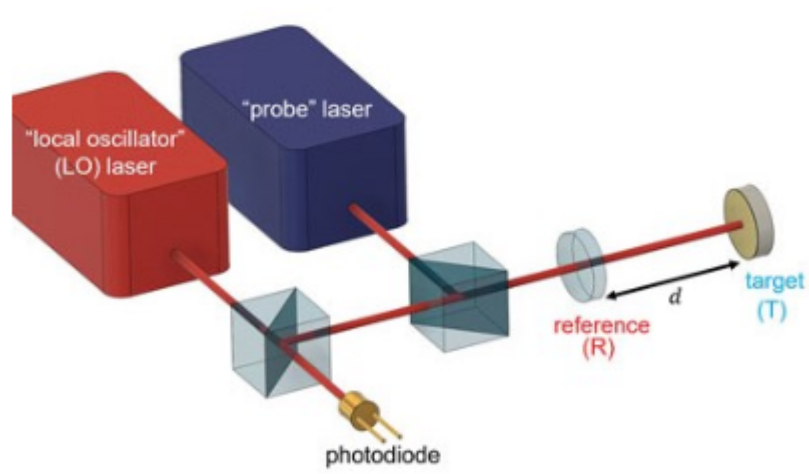
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Latest Webinars



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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