



## .: Top Stories

Eight Predictions for the Photonics Industry in 2023 2022 saw war break out in Europe, supply chains strained by the

everlasting pandemic, and, just this month, a long-anticipated breakthrough in laser fusion making global headlines and raising hopes for the future prospect of green energy. And the laser industry? Read on.

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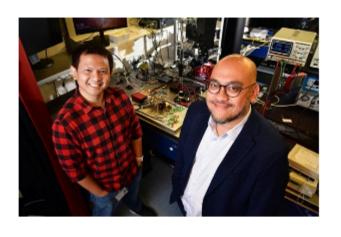


#### Communications Researchers from the University of Twente developed a multifunctional

Microwave Photonic Filter Shifts Paradigm for Future

PIC that enables programmable filtering functions with a reported record-high dynamic range. The advancement addresses concepts and technologies that include integration, versatile programmability, and techniques for enhancing key radio frequency performance metrics. Though prior R&D in microwave photonics has targeted improvements to these aspects, the researchers said, the recent work introduces an approach to do so simultaneously in a single circuit.

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#### Screening Researchers from the Single-Cell Center of the Qingdao Institute of

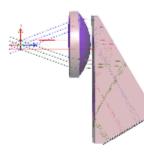
Optical Tweezer System Conducts High-Accuracy Cell

Bioenergy and Bioprocess Technology (QIBEBT) of the Chinese Academy of Sciences have proposed an optical tweezer-assisted poolscreening and single-cell isolation (OPSI) system that could be used to screen bacterial and cancer cells. Tests showed the system achieved a 99.7% purity of sorting target cells of bacteria, yeast, and humans. Read Article



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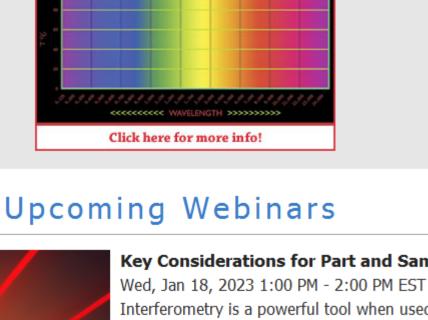
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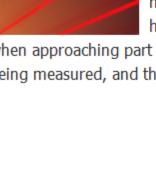


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# methods available to facilitate such measurements but can often overlook the effects caused by part

technology fits within the bigger picture of practical applications.



holding or fixturing. Frank DeWitt of XONOX Technology Inc. discusses what should be considered when approaching part holding and fixturing for interferometric measurements, the features that are critical to the item being measured, and the required outputs of the measurement.

Register Now 3D Optical Metrology: Capabilities for a New Era Thu, Jan 19, 2023 1:00 PM - 2:00 PM EST

limitations of the many tools on the market today. Harding then considers each technology for both

Kevin Harding of Optical Metrology Solutions provides an overview of the many 3D optical metrology tools available today. He discusses applications from general manufacturing of durable parts to precision component measurement. He shares examples, typical performance specifications, and the

the type of application it is best suited to address, as well as its speed and resolution. Finally, he shows where each

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