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# **Top Stories**

### process using glass for additive manufacturing techniques. The scientists first mix

New Technique for the Additive Manufacturing of Glass Researchers from the Karlsruhe Institute of Technology (KIT) have developed a

nanoparticles of high-purity quartz glass with small amounts of liquid polymer; they then cure the mixture with light at specific points through a process called stereolithography.



**Blood Tests** 







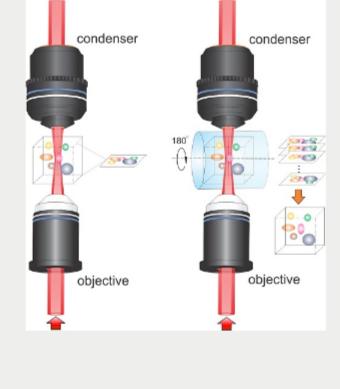
#### eliminate conventional blood tests for analyses such as drug testing and early detection of diseases. The laser system has two 100-fs pulses — one at 1040 nm with the other tunable from 680 to 1300 nm — giving the user the ability to tune

Researchers from Purdue University have developed a chemical imaging system

that uses a femtosecond laser to penetrate deep into tissue and that could

Volumetric Imaging Technique Could Eliminate Needles for

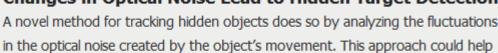
the laser to excite different vibrational transitions of the specimen.

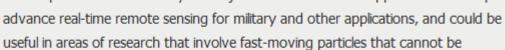


Changes in Optical Noise Lead to Hidden Target Detection A novel method for tracking hidden objects does so by analyzing the fluctuations









observed directly.

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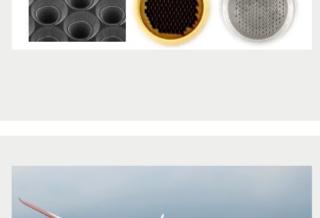




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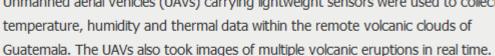




**Drones Record Activity From Volcanic Plume** Unmanned aerial vehicles (UAVs) carrying lightweight sensors were used to collect







to the summit vent has prevented robust gas measurements in the past.

The research team believes this to be one of the first times that fixed-wing UAVs have been used at a site such as Volcán de Fuego, where the lack of close access

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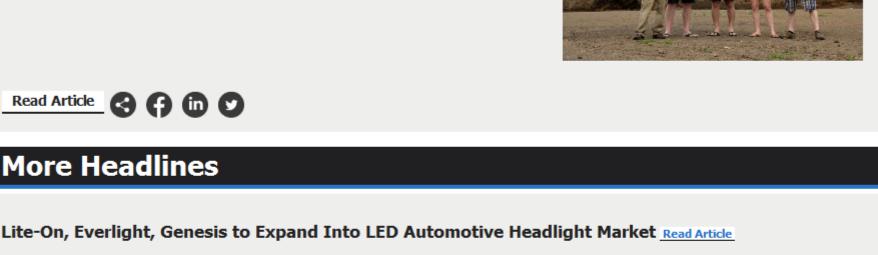
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Optical Biomedical Imaging

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compiled that offers in one place a broad

survey of technologies, applications and









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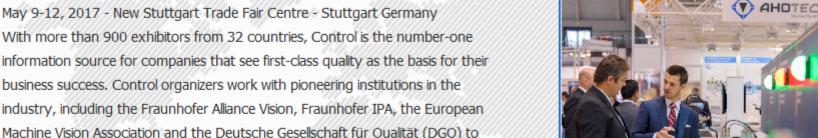
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### Tom Brennan, an AIA Advanced Level Certified Vision Professional, will cover several machine vision software approaches and algorithms including image

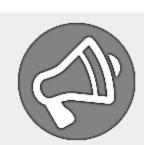
representation and color spaces, image processing, parallel programming and artificial intelligence. Brennan will walk attendees through how these algorithms and methods enable new technologies such as vision guided robotics, high-speed imaging, thermal/IR imaging and 3D imaging. This free webinar is sponsored by Euresys s.a. Register Now PHOTONICS buyers' guide®

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