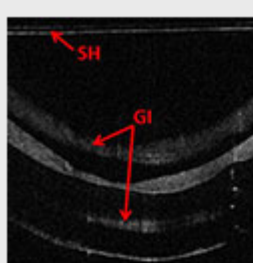




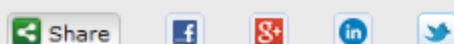
Thursday, January 7, 2016

OCT Detects, Assesses Bacterial Buildup on Medical Devices



Researchers used optical coherence tomography in vivo to determine the presence of biofilm — bacterial growth that results from micro-organisms attaching themselves to and multiplying on synthetic surfaces. Biofilm has been linked to ventilator-associated pneumonia (VAP), a prevalent infection in intensive care units.

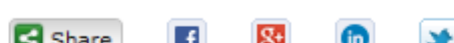
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Worm Brain Imaging Illustrates Neurons' Role in Movement

A fluorescence microscopy technique has yielded 3D footage of brain activity in unrestrained worms, offering insight into how populations of neurons generate animal behavior.

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Filming 'Killer Cells' in 3D to Aid Immune Response

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OZ Optics Limited
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Fiber Optic Sensor Monitors Early Stage Embryos



The sensor concurrently measures hydrogen peroxide and pH – both indicators of embryonic stress. It consists of a single optical fiber, the tip of which was functionalized with a reactive fluorescent coating.

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Optical Society to Celebrate 100th Anniversary

"The centennial is not only an opportunity to capture the legacy of the society and the optics field, but also a chance to explore the future of these exciting technologies," said OSA President Alan E. Willner.

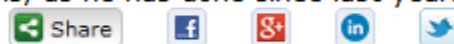
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William Miller Promoted to President at Veeco

Miller will have direct responsibility for the company's business units and central R&D, and will continue to oversee global manufacturing operations, as he has done since last year.

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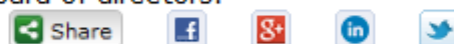


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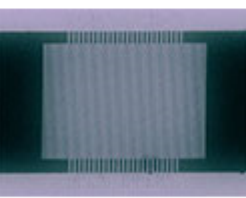
Multispectral Ophthalmology Tech Firm Annidis Replaces President

Annidis Corp. has terminated its employment agreement with President Nick Ribaric by mutual agreement. Ribaric remains on the company's board of directors.

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Superconductor Ups Single-Photon Detection Accuracy



Improving on earlier technology, a single-photon detector made of superconducting nanowires offers reduced temporal jitter with less demanding cooling requirements. This greater precision at a higher temperature makes the new detector useful for communications research and experiments involving quantum entanglement and teleportation.

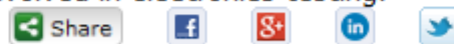
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Laser Measurements Simplify Electronics Testing

Femtosecond lasers may provide a cost-effective alternative to conventional vector network analyzers for high-frequency measurements involved in electronics testing.

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Founder Sacher Lasertechnik

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