

sponsor

PHOTONICS MEDIA





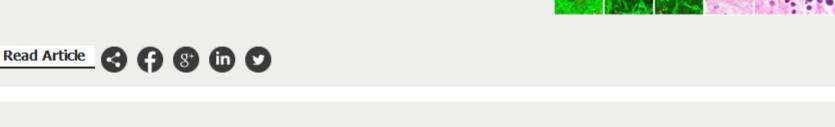
International Trade Fair for Laser Material Processing May 31 – June 02, 2016 Messe Stuttgart

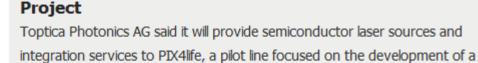
Top Stories

Third-Harmonic Generation Microscopy Provides in Situ **Brain Tumor Imaging**

A technique involving third-harmonic generation microscopy could allow neurosurgeons to image and assess brain tumor boundaries during surgery,

providing optical biopsies in near-real time and increasing the accuracy of tissue removal.







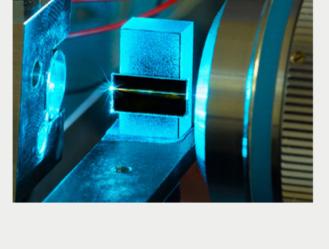






compact, fully integrated photonics device to replace the bulky and expensive optical systems that currently dominate the life sciences sector.

Read Article G H 8 m D



Design









building light-sensitive artificial cells. Professor Jonathan Clayden and colleagues in the University of Bristol's School of Chemistry, along with collaborators at the universities of Manchester and Hull, created an artificial mimic of rhodopsin, a

protein that resides in cell membranes in the retina. The absorption of light by

rhodopsin is the first step in the biochemistry of vision. Read Article (3 (7) (8) (in () sponsors Custom, Flat-Surfaced





Visualization of Cells

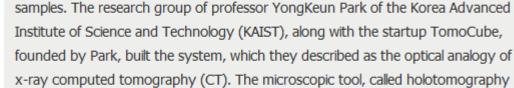




Our World



pco.edge 4.2 CLHS

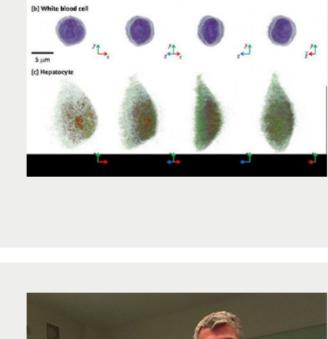


(HT)-1, uses laser illumination whereas x-ray CT uses x-ray beams.

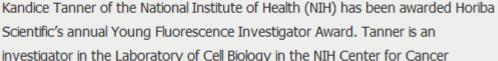
Holotomography Enables Real-Time, Label-Free

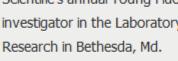
A powerful method for imaging live cells without staining employs a 2D/3D/4D holographic microscope, allowing real-time, label-free visualization of biological

3 7 8 0 0 Read Article Tanner Awarded Horiba Young Fluorescence Investigator Award



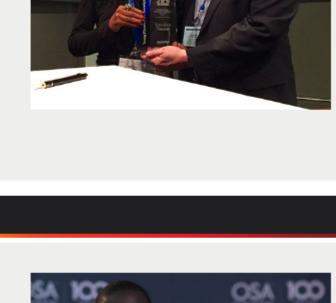
Scientific's annual Young Fluorescence Investigator Award. Tanner is an investigator in the Laboratory of Cell Biology in the NIH Center for Cancer





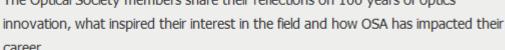






Witwatersrand The Optical Society members share their reflections on 100 years of optics

career.



Light Matters

Featured Video



Read Article 🚷 😝 🚯 🖸



A Time to Remember - LIGHT MATTERS

OSA Centennial - Bienvenu Ndagano, University of



Center that uses fiber optic light stimulation to essentially regrow lost synaptic connections in the brain. Researchers incredible findings could ultimately help combat Alzheimer's and other neurological diseases. We also delve into an IR imaging method that is helping beekeepers ensure the health of their colonies;

Managing Editor Michael Wheeler tells us how growing nanostructures could someday create self-cleaning textiles; and we learn about a new noninvasive spectroscopy technique for the assessment of bacteria in things like food and

This month, we look at a new optogenetics technique developed at MIT's Riken

Quantum Cascade Laser Eliminates Need for External Light Source Read Article On Target receives \$5.2M in Funding for Cancer Fluorescence Compound Read Article Corning, OLEDWorks Announces OLED Lighting Contest, Deadline June 30 Read Article Sol Voltaics Aligns, Orients Nanowires in Solar Thin Film Read Article



Watch Now



More Headlines

Featured Products

blood supplies.

Manfra Chosen to Lead Microsoft's Station Q Purdue Read Article

Taper Manufacturing Station

The production-ready Taper

3SAE Technologies

Thin-Film Coating

United Lens Company

robotic multi-station aqueous ultrasonic system with 18 meg. ohm

For over forty years ULC has been

for the photonics industry. We use a

providing high-quality Thin Film Coatings

(TMS)

Manufacturing Station (TMS) with optional cleaving package is grinding. The unique mechanical design designed for use in the manufacturing of optical fiber tapers, and axis configuration combined with innovative kinematics allow for bundles and couplers. both cup and peripheral wheel grinding in a single process cycle.

More Info

More Info

sponsors



SCG 250: Freeform Grinding

The SCG 250 provides an ideal platform

More Info

More Info

for freeform, aspherical, and spherical

Schneider Optical Machines

Adjustable or Fixed Fiber

For well over 15 years, Micro Laser

Systems has been manufacturing Fiber

Collimators with very high beam quality in

Collimators

Micro Laser Systems

deionized water to prep the optics for coating.



5 - 10 June 2016 CLEO:EXPO: 7 - 9 June 2016 San Jose, California, US

Industry Events

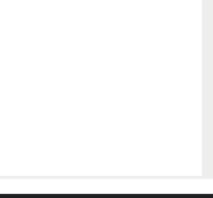
Photonics Media Booth: 1.123 Sensor & Test 2016 is the world's leading forum for sensors, measuring and testing, with more than 500 exhibitors from around the world, a special topic for 2016 will be "Measuring in the Cloud". Expert forums provide an opportunity for innovative dialog on new concepts and solutions for processing, transferring and

analyzing data acquired by measuring technology, while ensuring its security. Visit our website to download a free admission ticket, compliments of Photonics Media.

Sensor & Test 2016 - The Measurement Fair May 10-12, 2016 - AMA Service GmbH - Nuremberg, Germany

Register now for free admission! Welcome to the Innovation Dialog! SENSOR+TEST

adjustable or fixed focus format.



THE MEASUREMENT FAIR Nürnberg, Germany 10-12 May 2016 With special stand "Vision Sensors and Systems" PHOTONICS buyers' guide® Looking for Test, Measurement and Positioning products? Search PhotonicsBuyersGuide.com, or browse these product categories: **Beam Positioners**

More Info

sponsors

Optical Mounts Radiometers

Come See the Latest in Displays...in the City by the Bay!

www.displayweek.org Moscone Convention Center, San Francisco, CA

May 22-27, 2016

Test Patterns Lens Testing Equipment

> Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (Photonics Spectra, Industrial Photonics, BioPhotonics and EuroPhotonics). Please submit an informal 100-word

abstract to Managing Editor Michael Wheeler at Michael. Wheeler @Photonics.com, or use our online submission form.



Infrared Interferometers

CALL FOR ARTICLES!

Questions: info@photonics.com