



sponsor



LightMachinery
Excellence in Lasers and Optics

A better excimer laser. The IPEX-700.

www.lightmachinery.com



PHOTONICS.com

PHOTONICS MEDIA

THE PULSE OF THE INDUSTRY



Thursday, June 19, 2014

Biometric Watches Noninvasively Monitor Vital Signs



Two new noninvasive, wearable devices have been developed, allowing people to monitor their own biometrics. Both devices contain sensors -- one to track glucose and dehydration levels, and the other to monitor pulse.

[Read Article >>](#)



Featured Video

Minus-K – Vibration Isolation Products

Minus K's vibration isolators are low cost, passive, vacuum and clean room adaptable that require no air or electricity while offering the best isolation in the industry. Products: table-top platforms, workstations, floor platforms and custom systems. Isolation typically 10 to 100 times better than air tables and or active systems.

ON Semiconductor Acquires Aptina Imaging

ON Semiconductor has acquired Aptina Imaging for \$400 million in a push to expand its image sensor business.

[Read Article >>](#)



Lidar Provides Better Study of Active Fault Zone

A new lidar and digital 3-D modeling system can now better recognize fault line activity in relation to large earthquakes.

[Read Article >>](#)



Products on PhotonicsBuyersGuide.com

Low-Light Color CMOS Camera

Photonis USA
PHOTONIS Digital Imaging introduces a new Color Low-Light CMOS camera, optimized for low-light conditions. The new camera model provides USB3 functionality and color imaging for the NOCTURN line of products.

[More info >>](#)

Fiber Optic Couplers

Gould Fiber Optics
Gould Fiber Optics is a leading manufacturer and supplier of premium passive fiber optic components and integrated modules to the OCT, laser, sensors and telecommunications industries.

[More info >>](#)

Machine Vision Lenses

FOCtek Photonics
FOCtek provides customers with optical lens assemblies, and custom-made lenses widely used in precision instruments, medical equipment, automation equipment, automatic optical inspection, security and more.

[More info >>](#)

Spectral Isolation Optical Components

Optometrics
Optometrics is a high volume OEM and standard catalog component manufacturer of spectral isolation optical components and sub-assemblies. An ISO 9001:2008 certified Lean manufacturer.

[More info >>](#)

More Articles on Photonics.com

Antenna-free THz Detector Uses Nanotube Thin Films



Carbon nanotube-based detectors operating in the THz frequency range could lead to significant improvements in various imaging applications.

[Read Article >>](#)



Laser Light, DISA Unite for Satellite Technology

Laser Light Communications has entered a cooperative agreement with the U.S. Department of Defense's Defense Information Systems Agency.

[Read Article >>](#)



New Class of Nanoparticles Could Herald Flexible Solar Cells

Nanoparticles could prompt a new generation of outdoor solar cells that may replace the traditional.

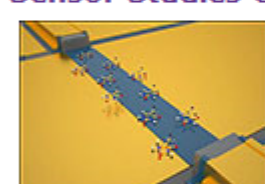
[Read Article >>](#)



Light Matters

In this edition of the industry's **premier weekly newscast**: biometric watches noninvasively monitor vital signs, lidar helps study active fault zones, a terahertz detector uses nanotube thin films, and we wrap up CLEO 2014.

Sensor Studies Chemicals with Single Chip



A tiny new sensor uses miniaturized IR laser technology to identify and study chemicals -- all on a single chip.

[Read Article >>](#)



Guernsey Coating Now Female Owned

Ty Guernsey, co-founder of Guernsey Coating Labs, has fully acquired the company, making it a completely woman-owned business.

[Read Article >>](#)



Laser Weapon in the Works for Ground Vehicles

Researchers are working to create a solid-state laser that can ultimately prevent enemy unmanned aerial vehicles from tracking and targeting Marines on the ground.

[Read Article >>](#)



Reader Poll: Weigh In!

It's time for our annual reader poll. **Click through** to answer a few quick questions about how you got your start in photonics, whether experience is a better teacher than a textbook, and how social media impacts your work.

WHITE PAPER



Characterization to the Extremes: Terahertz materials characterization at cryogenic temperatures and high magnetic fields

Lake Shore Cryotronics, Inc.

In continuing pursuit of improved performance, higher processing speed, and more compact packaging, researchers spend considerable time identifying and characterizing novel and previously unexplored materials. Recently, the terahertz frequency range has emerged as a new frontier for materials science, helping to map out this unknown territory. This paper explores how THz energy can be used to gain insights into material properties, particularly under variable or extreme temperatures and magnetic fields.

[DOWNLOAD WHITE PAPER >>](#)

WEBINAR

Aspheres: Tolerancing for High Performance

Wednesday, June 25, 2014 - 1 - 2 p.m. EDT

FREE WEBINAR



Dan Bajuk

Tolerancing high precision aspheres is different. Where should you tolerance? What should you tolerance? Zygo Extreme Precision Optics draws on years of experience in manufacturing custom optics, to share examples of geometries and concerns in several demanding asphere applications. Learn how and why to tolerance your custom optical designs -- enough to avoid unexpected errors, and not so much that you've over-toleranced and added unneeded production requirements.

[REGISTER NOW](#)

Industry Events

Sensors Expo & Conference 2014 - June 24-26, 2014 · Rosemont, Ill.

The annual Sensors Expo & Conference, established in 1986, is the only industry event in North America that exclusively focuses on sensors and sensor-integrated systems.

The conference program explores the latest innovations in sensor technology, including Internet of Things, MEMS, Energy Harvesting, M2M, Wireless and Measurement & Detection. The event identifies cutting-edge trends and reflects those trends throughout the exhibit floor with new product announcements and key technology-focused areas, as well as a showcase of hundreds of products and services.

[More info >>](#)

Questions: pr@photonics.com

Unsubscribe: <http://www.photonics.com/Newsletter/EmailUnsubscribe.aspx>

[Subscribe](#) | [Manage Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

sponsor

SPIE SMART STRUCTURES NDE

SMART STRUCTURES NDE

Applied technologies of advanced materials, smart sensor networks, non-destructive evaluation, and structural health monitoring.

REGISTER TODAY

Conferences & Course: 25-29 March 2017
Portland Marriott Downtown Waterfront Hotel
Portland, Oregon, USA

sponsor

APRIL 3-6, 2017 | CHICAGO

AUTOMATE • 2017

Connect with leading suppliers and experts in vision!

REGISTER TODAY!

PHOTONICS buyers' guide

Looking for **Optics and Optical Components products**? Search the Photonics Buyers' Guide or Browse these product categories:

- [Antireflection Coatings](#)
- [CCTV Lenses](#)
- [Custom Optics](#)
- [Fabrication](#)
- [Ellipsometers](#)
- [Holographic Gratings](#)
- [Instrument Windows](#)

sponsor

sponsor