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Camera Captures 3-D Images from 1 km Away

A time-of-flight imaging system that uses a longer wavelength of light gathers high-resolution 3-D information from up to a kilometer away from objects typically very difficult to image. "This single-photon counting approach gives a unique trade-off between depth resolution, range, data-acquisition time and laser power levels," said Aongus McCarthy, a research fellow at Heriot-Watt University.

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Navy to Put Craft-Zapping Laser on a Ship in 2014

The Navy will deploy an onboard solid-state laser capable of shooting at swarming small boats or downing unmanned aircraft, officials announced this week. The move marks the first time such a device will be installed on a Navy ship at sea.

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Gooch & Housego Opens Sales Office in Japan, Names Director

The vertically integrated supplier of optical components, assemblies and subsystems opened a sales office in Nagoya, Japan, under the management of Masashi Wada.

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NTU Launches Optical and Laser Engineering Center

A new optical and laser engineering research center launched by Nanyang Technological University (NTU) will help local small and medium enterprises to develop commercial applications in the competitive global market.

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With Laser Zap, Cocaine Addiction Vaporizes

Laser light stimulation to a portion of the brain can wipe away addictive behaviors – or conversely turn on a drug addiction, a new US study on rats demonstrated.

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Telerobotics Treats Bladder Cancer Better

The new microrobotic platform developed at Vanderbilt and Columbia universities – which includes an endoscope and a fiber laser for tumor ablation – provides surgeons with a much better view for more accurate diagnostics and tumor removal, regardless of location.

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Light Matters sponsored by **LA CROIX OPTICAL CO.**

In this edition of the industry's premier weekly newscast: Robots give doctors "surgical superpowers," photon counting is used for depth imaging, a laser zaps away cocaine addiction, and the bio-optics community backs President Obama's brain mapping initiative. Hosted by Photonics Media's Laura Marshall and Melinda Rose.

Clearly Superior Epoxies for Optical Applications
Master Bond

As technology in the optics industry continues to advance and improve, careful consideration of the properties of epoxies must be evaluated. When determining the most effective adhesive to be used in opto-electronics, medical and other optic related industry applications, trade-offs of key characteristics should be assessed. Here is a guide to the different properties to consider, their benefits and potential disadvantages and advice on how to prioritize these factors for the success of the application.

[DOWNLOAD WHITE PAPER >>](#)

Photonics Researchers Among Young Investigator Recipients

Five photonics researchers working in areas from nonlinear materials to undersea wireless optical communications to solar power are among the 16 recipients of Young Investigator awards, given by the Office of Naval Research and announced by the Department of the Navy this week.

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Optics Community Hails Obama's Brain Mapping Initiative

Neuroscientists and bioengineers voiced support this week for the BRAIN Initiative, a brain mapping research effort unveiled by President Barack Obama that aims to revolutionize our understanding of the human mind and to uncover ways to treat, prevent and cure disorders and traumatic brain injury.

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PROMOTION

Join Us for a Free Webinar
2013 Webinar Series - Expert Briefings

Enabling Technology for Highly Aspheric or Free-Form Optics Manufacturing
Thursday, April 25, 2013 – 1 p.m. ET/10 a.m. PT

Photonics Media will host Dr. Dae Wook Kim, Research Professor, Large Optics and Fabrication Testing Research Group, College of Optical Sciences, University of Arizona. Dr. Kim will discuss new approaches for advancing the computer-controlled optical surfacing process for manufacturing highly aspheric or free-form optics, such as the 8.4-meter-diameter Giant Magellan Telescope off-axis primary segment at the U of A. He will also present actual data demonstrating the performance of the enhanced process to build next-generation optical systems.

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Industry Events

SPIE Defense, Security and Sensing 2013 - April 29 - May 3, 2013 - Baltimore, MD
Visit Photonics Media at Booth 1208

SPIE Defense, Security and Sensing, the industry's leading event for the latest technologies and equipment in sensing, imaging, optics and industrial applications, features 2325 technical presentations, 500 exhibitors and 55 short courses. Industry events will include a symposium-wide plenary presentation delivered by DARPA director Arati Prabhakar, a National Security Sensor Challenges special session, a workshop on early stage technology commercialization, panel discussions and a poster reception.

The 2013 event will feature more than 2325 presentations under 55 co-located conferences covering the latest developments in 12 different program tracks, including imaging and sensing, laser sensors and systems, sensor data and information exploitation, emerging technologies, and unmanned, robotic and layered systems.

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