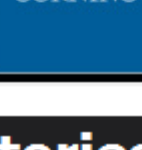


This Week In PHOTONICS

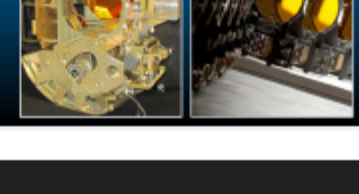
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Top Stories

Plasmons Enable Tunable IR Light Source

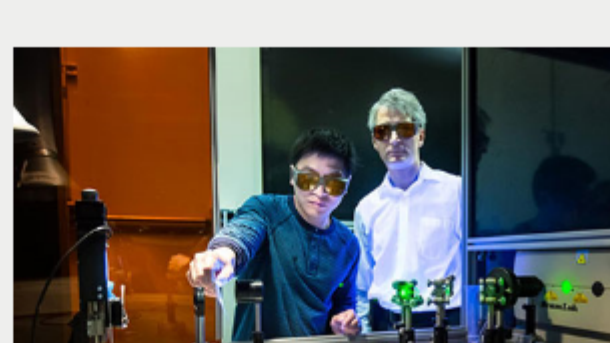
A nanoscale optical parametric amplifier (OPA) has been demonstrated to function as a tunable IR light source. The device functions much like a laser; but while lasers have a fixed output frequency, the output from the nanoscale OPA can be tuned over a range of frequencies, including a portion of the IR spectrum. The device boosts the output of one light by capturing and converting energy from a second light.



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Laser Bonding Strengthens Carbon Fiber Joints

A laser-based method for joining carbon fiber composites and aluminum for lightweight cars and other multimaterial, high-end products promises to produce more-robust joints at a lower cost. The process, developed by a team led by Adrian Sabau of the Department of Energy's Oak Ridge National Laboratory, would replace the practice of preparing the surface of the materials by hand using abrasive pads, grit blasting and environmentally harmful solvents.



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Williams Wins Presidential Early Career Award

President Barack Obama has named Benjamin Williams of the University of California, Los Angeles, as a recipient of the Presidential Early Career Award for Scientists and Engineers (PECASE). Williams has worked to advance terahertz quantum-cascade lasers and devices for communications, sensing and imaging, as well as to enhance undergraduate and graduate student learning experiences.



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Amerlux Equips Los Angeles with LEDs

Energy-efficient lighting provider Amerlux LLC has supplied the city of Los Angeles with its Avista LED light engines as part of a major downtown retrofit project.



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Quantum Materials Ramps Up Production

Quantum Materials Corp. has announced the completion of its initial development phase with display film partners, and is entering into a preproduction phase, committing to an accelerated sample optimization and delivery schedule for its cadmium-free quantum dot (QD).



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Featured Video

Shanti Bhattacharya - IIT Madras, India

The Optical Society members share their reflections on 100 years of optics innovation, what inspired their interest in the field and how OSA has impacted their career.



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National Laser Company
Known as one of the highest quality replacement lasers, the NLC 488nm argon laser outlives and outperforms competitive models. It is one of the most robust lasers in the industry for Semiconductor Inspection Tools.

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Advanced Lighting Controllers

Advanced illumination
Measuring 115mm x 122mm and only 22mm wide, the DCS-100E is a DIN rail mountable, three channel, single-output lighting controller which uses the latest LED-driver and microcontroller technology.

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Unmanned Vehicle Optics

Meller Optics Inc.
Custom fabricated sapphire, germanium, ZnS, silicon and zinc selenide optics for use in gimbaled systems and front surface protection in unmanned air- and undersea vehicles are available from Meller Optics.

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Laser Diode Test System

YELO Limited
The Y1000L is a universal tester capable of burn-in aging and life-time testing of multiple photonic devices at the same time.

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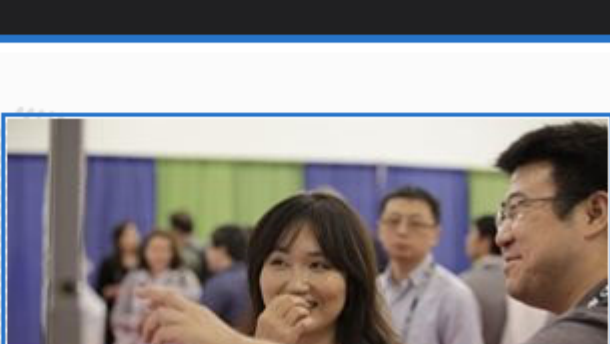
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CLEO 2016 - The Optical Society (OSA)

June 5-10, 2016 - San Jose Convention Center - San Jose, CA
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CLEO is an international forum for scientific and technical optics, uniting the fields of lasers and optoelectronics. Over 250 companies from around the globe will be introducing new products and demonstrating cutting-edge innovations. As an attendee, you can partake in exhibit floor activities and programs such as Poster Sessions and a Technology Playground, as well as professional networking opportunities such as the VIP Industry Leaders and OSA's Executive Forum events. The peer-reviewed program highlights recent progress in research and technology and covers all aspects of laser technology, from basic research to industry applications.



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Webinars

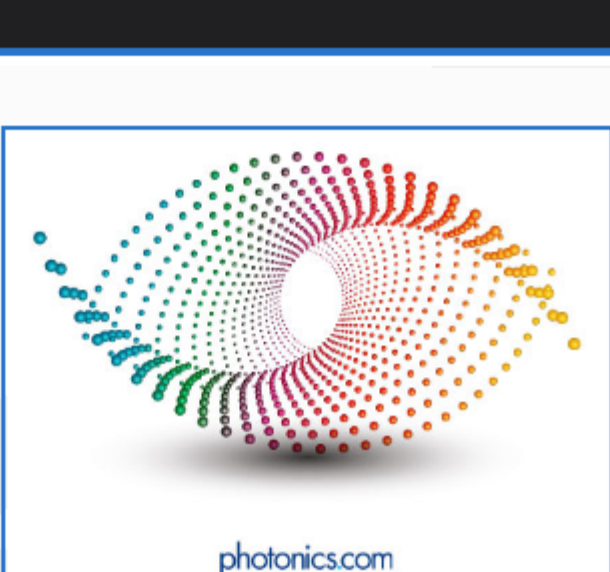
Photonics for Ophthalmology

Thu, Jun 9, 2016 12:00 PM - 3:15 PM EDT

Join us for a FREE digital conference, "Photonics for Ophthalmology," on the use of light-based imaging and surgical techniques for diagnosing and treating eye conditions. The event will feature several 15-minute online presentations, each followed by a brief question-and-answer session. Presentation topics will include photo-mediated ultrasound therapy, ophthalmologic lasers, intraocular lenses, photobiomodulation, and various aspects of optical coherence tomography.

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