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#### THz QCL Hits Light Output Milestone

via a pulsed laser beam at a record download rate of 622 megabits per second.

Using special symmetrical laser structures, a group in Vienna says it has created a terahertz quantum cascade laser (QCL) with four times higher light output than other such existing devices, crossing a major hurdle to the widespread use of such lasers. "We achieved 470mW peak output power in pulsed mode from a single facet at a heat sink temperature of 5 K and a maximum operation temperature of 122 K. Furthermore, the devices show a broadband emission spectrum over a range of 420 GHz, centered around 3.9 THz," the group said in a paper on the work.

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## Newport Divesting Micro Robotics Systems Unit

NASA Sets Laser Communications Record

The lasers and optical components maker is selling its Micro Robotics Systems (MRSI) advanced packaging business for \$6 million to a private investment group led by the local management team.

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LED-Luxmeter for SSL

Gigahertz-Optik's new BTS256-E LED-

illuminance, color and spectral data to

fully qualify solid state lighting, CFL and

Luxmeter provides all necessary

Gigahertz-Optik, Inc.



## Energetiq - Laser-Driven Light Source

**ENERGETIQ** 

EQ-99 LDLS™ Laser-Driven Light Source

FEATURED VIDEO

Other

Light Sources

Energetiq CEO Paul Blackborow discusses the company's EQ-99 LDLS laser-driven light source, winner of the 2010 Prism Award for photonics innovation in the Other Light Sources category. The EQ-99 LDLS covers a broader spectral range with lifetime at least an order of magnitude longer than traditional xenon and deuterium lamps, enabling high spectroscopic or image





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# The space agency's Lunar Laser Communication Demonstration transmitted data between the moon and the Earth



#### Precision Patterned Components

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Tinsley offers customers one-off, small lot

aspheric elements including a wide range

of optical coatings, as well as providing

assembly and integration of optics for

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#### Max Levy Autograph

Max Levy Autograph specializes in ultraprecision patterned components and 3-D structures for the photonic, biomedical, mil-aerospace, semiconductor, and metrology industries.

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## PM Variable Ratio Wave Coupler

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#### Evanescent Optics Inc.

Evanescent Optics Inc. offers low loss (<0.1dB), high isolation (<-25dB) PM fiber-optic couplers in both fixed ratio and variable models.

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### Rare-Earth Doped Fibers for Use in Fiber Lasers and Amplifiers

Monday, November 4, 2013 1:00 p.m. EST

FREE WEBINAR

The advances in performance of fiber lasers have been dramatic in the past 10 years, making fiber lasers a commercial business worth more than \$500 Million per year. All of this is made possible by the unique performance attributes of rare-earth doped silica fibers, which are at the heart of each of these laser systems. In this webinar, we will describe the key parameters of these fibers, including the use of largemode-area (LMA) fibers for high-power CW lasers as well as pulsed fiber lasers, along with the key other fiber-based components needed to make a fiber laser. The common rare-earth dopants for silica fibers, namely Ytterbium, Erbium, Thulium and Holmium, will also be described, along with some of the commercially relevant devices that are enabled by these fibers



Fiber Product Line

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# Disk Laser Research Garners EU Support

Replacing Mammography with Light and Ultrasound

mammography for routine breast cancer screenings.

Two projects starting next month concerned with developing ultrashort-pulse titanium:sapphire disk lasers for industrial materials processing applications are receiving €9.14 million (about \$12.5 million) in funding from the European Union's 7th European Subsidy Programme.

A new device called a photoacoustic mammoscope combines infrared light and ultrasound to create 3-D maps of

the breast. Its creators in The Netherlands hope that it could someday replace the x-rays used in traditional

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#### Nanoscale Engineering Advances QD-LEDs New research aims to improve quantum dot LEDs by using a new generation of the nanosized, engineered semiconductor particles specifically tailored to have reduced wasteful charge-carrier interactions that compete with the production of light. ithography Read Article >> Share Technologies for semiconductor lithography R&D, devices, tools, fabrication, and services On this edition of the industry's only weekly newscast: light and ultrasound aim to Register Today replace mammography, Laura shares insights from her trip to Photonex, and NASA's laser Location communications project sets a transmission record. Hosted by Photonics Media's Laura Conferences & Courses 23-27 February 2014 San Jose Convention Center Marshall and Melinda Rose. San Jose, California, USA Exhibition 25-26 February 2014



# Aston, NSU Partner on Photonics Research Center

Light-Activated Implants Signal Specific Deep Tissue

Aston University in England and Novosibirsk State University (NSU) in Russia are partnering to establish a joint research center, the Aston-NSU International Centre for Photonics in Novosibirsk.

New light-activated implants have been developed that its creators say can deliver light signals to specific

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# Zygo CEO Koliopoulos Steps Down

tissues deep within the body for the first time.

No reason was given for his resignation, other than that it was a mutual decision between Koliopoulos and Zygo's board. Zygo veteran and former CEO Gary K. Willis has been named interim CEO.

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# Industry Events

#### Neuroscience 2013 - November 9-13, 2013 · San Diego, Calif. Visit Photonics Media at Booth 117



venue for neuroscientists to join more than 30,000 colleagues from 80-plus countries at the marketplace of ideas and tools for global neuroscience. Attendees will discover the latest science and cutting-edge research, forge collaborations with peers, have access to resources for funding and career development, and explore new tools and technologies. The science and networking opportunities are unmatched, with nearly 16,000 scientific presentations, 600 exhibiting companies, and dozens of career development opportunities. MORE INFO >>

Neuroscience 2013, the Society for Neuroscience's 43rd annual meeting, is the premier

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