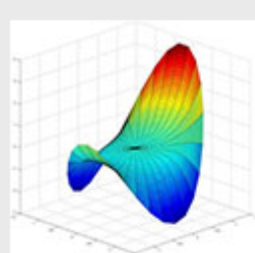




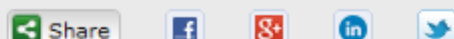
Thursday, November 12, 2015

NASA Exploring Freeform Optics for Compact Space Telescopes



Prompted by advances in computer-controlled fabrication and testing, NASA engineers are now using freeform optics to explore cost-effective alternatives to more traditional space telescope missions, such as CubeSats and other small satellites. "If you want to put these telescopes into a smaller box, you need to let the mirrors bend like a potato chip," said Joseph Howard, an optical engineer at NASA's Goddard Space Flight Center.

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GSI Group to Acquire Lincoln Laser for \$11M

A provider of polygon scanners and other optical scanning technology for the medical, food processing, and advanced industrial markets, Lincoln Laser will integrate within Cambridge Technology, a GSI business unit.

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Skorpios Expands Silicon Photonics Manufacturing Capabilities in New Mexico

The fabless silicon photonic integrated circuit manufacturer will upgrade its R&D, test and assembly capabilities with \$5.5 million in state funding and \$1.5 million from the city of Albuquerque.

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Featured Products



Mini Beam Steering System

New Scale Technologies
A miniature beam steering system from New Scale Technologies is ideal for precise, point-to-point beam steering and dynamic scanning up to 100 Hz.

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Picture This

DRS Technologies, Inc.
Temperature ICE-o-Therms™ for delineating multiple regions with user defined color parameters.

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HELIOS Uniform Source Systems

Labsphere, Inc.
Labsphere's new HELIOS brand of modular uniform light sources for absolute calibration of imagers and sensors offers the versatility of a custom design with the proven performance of a standard solution.

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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.

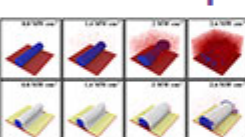
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'Invisible' Graphene Layer Protects Nanowires from Radiation Damage



Wrapping silver nanowires in a one-atom-thick layer of graphene protects the structures from radiation damage that has historically prevented their use on a commercial scale. "The damage occurs in medical imaging, in space applications and just from long-term exposure to sunlight," said Suprem Das, a former Purdue University doctoral student.

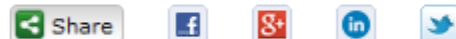
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Carinthian Research Center Wins €700K Contract for Laser Rocket Ignition Research

Under the contract, Carinthian will further develop its HiPoLas laser ignition technology for launcher drive systems to enable next-generation space vehicles.

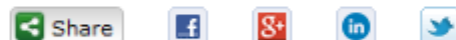
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IRradiance Wins \$150K Grant for MIR Laser Lens Prototype

With specialized lenses, MIR laser systems can be integrated into small, rugged spectrometers for both field and laboratory use. Such systems have a range of applications including gas leak and emissions monitoring, early cancer and disease detection, and stand-off explosive detection.

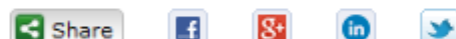
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Space Institute Funds Adjustable-Rx Eyeglasses, Light-Therapy Sleep Mask

The National Space Biomedical Research Institute has awarded matching grants to two small businesses developing light-based products for astronauts that also hold promise for consumer applications.

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In Memoriam: Teddi C. Laurin, Photonics Industry Champion and Publisher



Widely credited with ushering the term photonics into popular — and global — use, Teddi devoted many years to the adoption of the single term she felt would bring together all the burgeoning light-based technologies as a single industry and a force for the future.

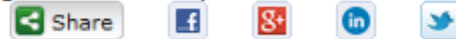
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Changing Frequency Speeds Phosphor Light Emission

A technique for controlling light from phosphors at very high speeds could overcome the materials' slow optical performance, potentially enabling their use in optical communications.

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Industry Events

American Society for Cell Biology Annual Meeting - Dec. 12-16 · San Diego



The 2015 ASCB meeting theme is about making connections at different scales, from the intracellular level to the tissue level, and from the organism level all the way up to the macrocosmic level. This integration will help us ask the right questions and find answers to challenging problems in medicine, living systems and ecosystems.

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International Light - ILT5000 Research Radiometer

Short video highlighting all of the improvements on the industry-standard ILT1700 including rapid measurements (1-100hz), broader dynamic range (100fA to 1mA), extensive supporting software apps, and built-in wireless, data storage, rechargeable batteries!

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