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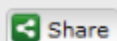
Monday, March 6, 2017

## New NASA Laser Technology Tracks Changes in Polar Regions



A laser-based photon-counting technique will enable the measurement of Earth's height from space, allowing researchers to track the melt and growth of Earth's frozen regions. NASA conducted testing using the MABEL (Multiple Altimeter Beam Experimental Lidar) instrument on board aircraft over the Arctic Ocean and snowy terrain of Greenland in 2012; the results of that testing were recently released.

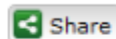
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## Tyndall Scientist Awarded Rank Prize for Optoelectronics

Eoin O'Reilly's pioneering work in the field of optoelectronics has earned him the 2014 Rank Prize. He is the first from Ireland to receive the honor.

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## Silicon Labs Unveils First Digital UV Index Sensors

The demand for UV detection in consumer electronics is growing, challenging researchers industrywide to create a compact, efficient and accurate sensor. Silicon Labs has done just that.

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## Products on PhotonicsBuyersGuide.com



### Necsel White Matrix

Necsel holds key patented technology to be the premium worldwide supplier of high power red, green and blue lasers with price points that enable the targeted display and lighting markets.

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### High-Resolution Interferometer

4D Technology Corp. The AccuFiz 6MP laser interferometer provides the highest available resolution for measuring steep slopes, aspheric surfaces and small diameter optics. Measure spherical/aspherical optics and molds with unprecedented accuracy.

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### Centrifuges for Continuous Filtration

Sanborn Technologies manufactures centrifuge systems for filtering and recycling grinding coolants used in optical processes. Complete systems including tanks, pumps and chillers are available.

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### Laser Safety Curtain Systems

Kentek Corporation KENTEK offers the most complete and versatile enclosure systems for applications requiring an eye-safe operating environment for industrial, medical, and research laser systems.

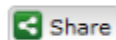
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## More Articles on Photonics.com

## Laser Process Shows Promise for Skin Cancer Treatment

The treatment of basal-cell carcinoma (BCC) with a new combination of lasers – pulsed dye and Nd:YAG – has yielded some good results, offering the potential for nonsurgical treatment.

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## SPIE Donation Helps Establish Endowed Scholarships

Fourteen new endowed scholarships will provide an investment in the future of optical sciences and photonics, realized through graduate students and their studies.

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## BP Chemicals Improves Site Safety with Flir Imaging Technology

BP Chemicals is now using Flir Systems' optical gas imaging (OGI) cameras to detect and document gas leaks, ensuring safe operation at BP's Saltend manufacturing and process research site.

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On this edition of the industry's **only weekly newscast**: Laura and Karen share observations and insights from their trip to Photonics West, and visitors to the Photonics Media booth talk to us about how they got their start in the industry. Hosted by Photonics Media's Laura Marshall and Karen Newman.

## Zecotek Develops 3-D Printing Interface for Commercial Applications

Zecotek Photonics Inc.'s subsidiary Zecotek Display Systems Ltd. aims to bridge the gap between current and future generations of photonic 3-D display technology with its design of a new interface platform.

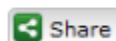
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## New Plasmonic Metamaterial Absorber Acts as UV-Protective Coating

A new approach to tunable plasmonic metamaterials for high UV frequencies could pave the way for their application in UV-protective coatings as well as thermophotovoltaics and stealth technology.

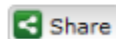
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## Roll-to-Roll Nano Sensors Enhance Manufacturing Opportunities

Roll-to-roll mass manufacturing is a key technology in low-cost disposable photonic sensor production, which could pave the way for new business and job opportunities, particularly for small and medium enterprises.

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## Industry Events

### SPIE Medical Imaging Conference 2014 - February 15 - 20, 2014 · San Diego, CA



Don't miss the SPIE Medical Imaging 2014 Conference at the Town & Country Resort and Convention Center. Conference topics will include Physics of Medical Imaging; Image Processing; Computer-Aided Diagnosis; Image-Guided Procedures, Robotic Interventions and Modeling; Image Perception, Observer Performance and Technology Assessment; Biomedical Applications in Molecular, Structural and Functional Imaging; PACS and Imaging Informatics: Next Generation and Innovations; Ultrasonic Imaging and Tomography; and Digital Pathology.

The 2014 plenary presentation will feature the Emerging Role of Quantitative Imaging Biomarkers by John Gore, Ph.D., of Vanderbilt University School of Engineering, and director of the Institute for Imaging Science School of Medicine.

Other special features include Dr. Geoffrey D. Rubin's presentation on Critical Path Technology - Volumetric Analyses in the Interpretation of CT Data.

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### Princeton Instruments – IsoPlane SCT Spectrograph

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