

# This Week in PHOTONICS



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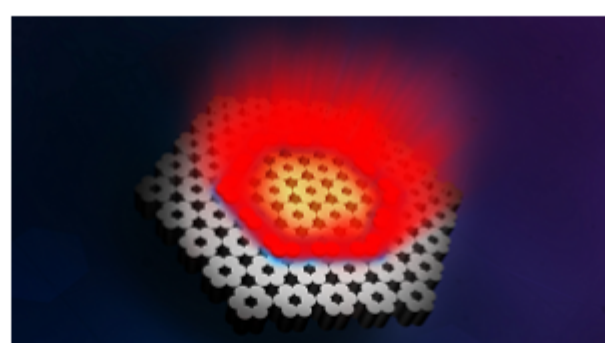


## Top Stories

### International Team Combines VCSELs to Form Single Network

Researchers from the Technion-Israel Institute of Technology and the University of Würzburg successfully forced an array of vertical-cavity lasers to act together as a single laser — a highly effective laser network the size of a grain of sand.

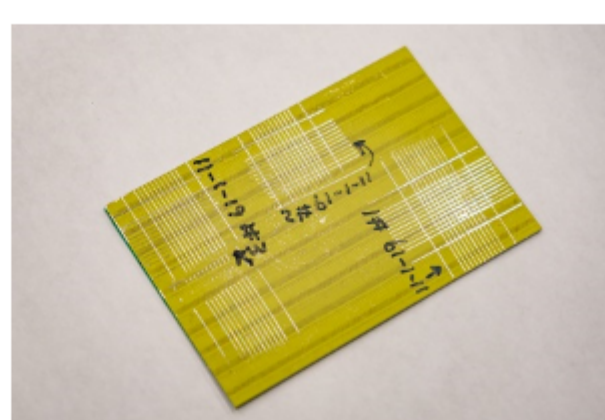
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### Laser-Interference Structuring System Prepares Surfaces for Protective Coatings

The chemical pre-treatment processes used to prepare U.S. Department of Defense materials for protective coatings involve hazardous compounds. Now, a laser-interference structuring (LIS) system developed by the Department of Energy's Oak Ridge National Laboratory (ORNL) could make protective coating application safer and more sustainable by lessening the need for these hazardous chemicals.

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### PreAct's TrueSense Safety Tech Earns Top Prize at Luminate Finals 2021

PreAct Technologies, an Ore.-based developer of intelligent sensing technology designed to bridge the gap between collision avoidance and active safety, earned the top prize in the fourth cohort of the Luminate NY Program's Innovation Finals Competition.

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## Featured Products

### Durable Metalized Windows

**Reynard Corporation**  
 Reynard Corp. manufactures highperformance metalized windows used in a variety of applications, such as hermetically sealed detectors, cryogenic Dewars, and medical devices. Metalization can be added to any filter providing a durable mounting interface or any other customized structure,...

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### Reliable Thin-Film Coatings

#### Deposition Sciences Inc. (DSI)

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### Pulsed MIR Spectrum Analyzer

**Bristol Instruments Inc.**  
 The model 772 spectrum analyzer is for pulsed lasers operating from 1 to 12  $\mu$ m. It measures wavelength to an accuracy of  $\pm 10$  parts per million, and bandwidth and longitudinal mode structure to a resolution of 4 GHz, providing the ideal solution for scientists and engineers...

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### Helium Leak Detectors and Vacuum Pumps

#### Pfeiffer Vacuum Inc.

The Pfeiffer Vacuum ASM 340 is a high performance and durable leak detector providing short cycle times and high throughput. It used for leak checking vacuum systems that are used in manufacturing of photonic devices and leak checking final hermetic sealed products.

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## Upcoming Webinars

### Raman Imaging for the Complete Polymer Lifecycle: From Materials Science to Environmental Impact

Thu, Oct 14, 2021 10:00 AM - 11:00 AM EDT

Raman imaging microscopy is the ideal tool for investigating polymer products at every stage of their lifecycle. From initial development to production and quality control, throughout use and eventual disposal, Raman spectroscopic characterization enables detailed analyses of polymers that can help optimize formulations and processes. This presentation with Nour Hafi, Ph.D., applications scientist at WITec, will describe relevant variations of Raman imaging and provide examples of their applications in various fields. Presented by WITec GmbH.

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### Controlling High-Power Laser Processes

Wed, Oct 13, 2021 1:00 PM - 2:00 PM EDT

Laser beams with powers of many tens of kilowatts are becoming increasingly common in today's industrial applications. However, as the powers increase, the stakes increase as well. In this webinar, Mark Slutzki of Ophir will discuss how to monitor appropriate laser parameters to keep high-power processes stable and predictable. Presented by Ophir.

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