Thursday, May 4, 2023

This Week in PHOTONICS
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.: Top Stories

Raising Light Frequencies Makes Nanosize Objects Visible
Researchers at Australian National University and the University of Adelaide are using nanotechnology to increase the frequency of the light that can be detected by cameras and other technologies by up to seven times. There is significant interest in achieving very high frequency detection of extreme-ultraviolet (EUV) light in order to observe objects at the nanoscale. "With violet light we can see much smaller things compared to using red light," researcher Sergey Kruk of ANU said. "And with extreme-ultraviolet light sources, we can see things beyond what's possible using conventional microscopes of today."

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Danish Government Blocks Sale of NKT to Hamamatsu
The sale of NKT Photonics to Hamamatsu Photonics K.K, Japan subsidiary Photonics Management Europe srl has been denied under the Danish Investment Screening Act. Required regulatory approvals for the agreement reached between NKT and Hamamatsu have been obtained over the past months from authorities in Germany, the United Kingdom, and the United States. On May 2, NKT received notification that the purchaser had been denied authorization under the Danish Investment Screening Act, which was needed for the purchaser to complete the transaction and acquire NKT Photonics.

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Mobile-Based Image Reconstruction App Can Be Used at Point of Care
A mobile phone application for photoacoustic tomography (PAT) image reconstruction has demonstrated performance comparable to that of applications implemented on laptop computers and workstations. The first-of-its-kind application was developed by a team from Iowa State University, Nanyang Technological University, and the Stanford University School of Medicine. The mobile-platform-based application will enable low-resource and other clinical settings to reconstruct PAT images at the point of care, using an inexpensive, readily available smartphone.

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.: Featured Products & Services

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NYFORS Teknologi AB
CO_2 laser glass-processing is designed to produce high-power and sensitive photonic components and complex structures. It guarantees contamination-free processing for fiber linear, 2D and gapless array splicing, ball lensing, end-capping, and many other challenging processes.

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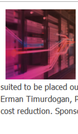
.: Upcoming Webinars



External Light Sources for Co-Packaged Optics: Applications and Beyond
Tue, May 9, 2023 1:00 PM - 2:00 PM EDT
The networking and computing application landscape is evolving to be cost effective, bandwidth dense, and power efficient. These new requirements bring optics and electronic processors closer together in a single package or more commonly, as co-packaged optics (CPOs). The co-packaged optics arrangement works well for all other transceiver parts, except for the lasers. Lasers are better suited to be placed outside the package inside external light source (ELS) enclosures to support these new applications. Erman Timurdogan, Ph.D. of Lumentum discusses various external light source solutions with emphasis on performance and cost reduction. Sponsored by Yokogawa Test&Measurement.

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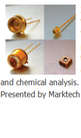

InGaAs Photodiode Detectors: Packaging, Performance, and SWIR Applications
Wed, May 10, 2023 1:00 PM - 2:00 PM EDT
Vince Forte of Marktech Optoelectronics provides an overview of InGaAs detector types, packaging, performance characteristics, and applications in NIR and SWIR wavelength bands. InGaAs photodiode types and optical & electrical specifications are covered. He reviews packaging forms and their impact on long-term reliability, as well as applications in medical diagnostics, sensing, pyrometry, LiDAR, and chemical analysis. The webinar is suitable for engineers, researchers, and scientists interested in InGaAs photodiodes. Presented by Marktech Optoelectronics.

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.: All Things Photonics

The changing nature of the "optics shop" — and, more broadly, its role in the optics and photonics industry today — is an effective gauge for tracking how optics workforce development is aligned to the ever-evolving needs of the industry. Recounting his own 40-plus-year professional journey, **Paul Melone**, global optics manufacturing director at Thorlabs, discusses his company's ties to AmeriCOM and how Thorlabs aims to identify and cultivate optics industry talent. Melone also discusses the company's 2023 acquisition of Rochester, N.Y.-based JML Optical.

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