

This Week in PHOTONICS

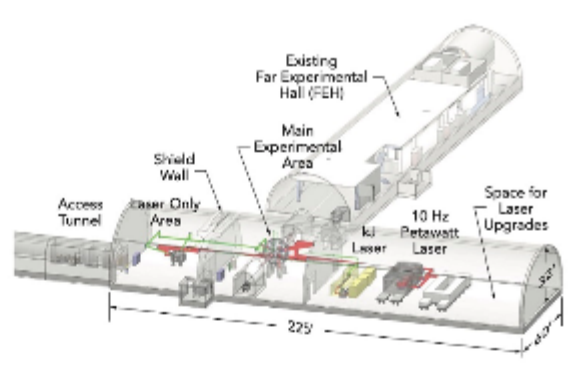


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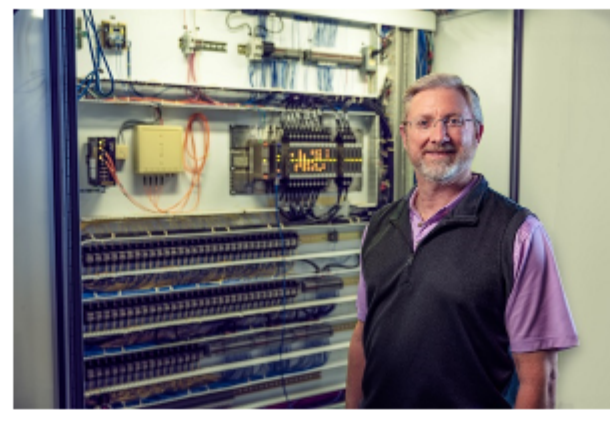
:: Top Stories

Facility at SLAC to Pair Petawatt System with X-Ray FEL
 A new facility at the U.S. Department of Energy's SLAC National Accelerator Laboratory will combine a petawatt laser system with an x-ray free-electron laser (XFEL) to further the scientific understanding of matter in extreme conditions. Coupled to the lab's Linac Coherent Light Source (LCLS), the Matter in Extreme Conditions Upgrade (MEC-U) received approval from the DOE Office of Science to begin preliminary design and execution.



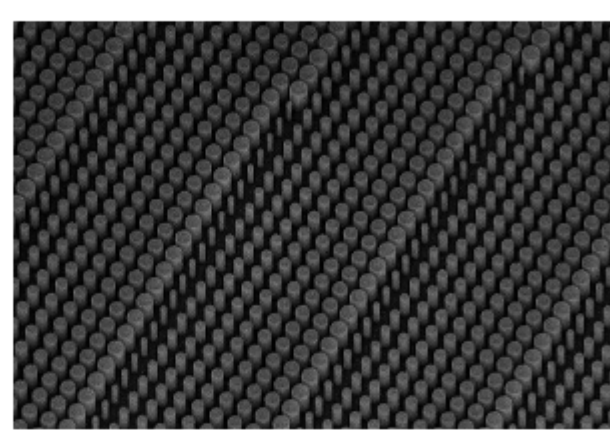
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NSF Allots \$18M for National Semiconductor Fab
 Engineering researchers at the University of Arkansas received \$17.87 million from the NSF to build and operate a national silicon carbide research and fabrication facility. The open-access facility will fill a gap in U.S. production of integrated circuits made with silicon carbide.



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NIL Technologies Reports 94% Efficiency in Meta-Optical Lens
 Optical solutions company NIL Technology (NILT) reports that it has designed, built, and characterized multiple meta-optical element (MOE) lenses with 94% absolute efficiency. The demonstration was done with 940-nm NIR lens, with results being heralded as a major milestone for the commercial use of metalenses.



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:: Featured Products

Modular 3D Sensor with GeniCam 3D

AT - Automation Technology GmbH

AT – Automation Technology revolutionized the 3D sensor industry with its modular 3D compact sensor (MCS) which is based on a modular system of sensor, laser, and link modules and recently launched the new cx4090HS 3D sensor module which supplements the MCS series.

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Spotlight 400 FT-IR Imaging System

PerkinElmer

Spotlight™ IR microscope systems are designed to meet the challenges of an expanding laboratory by generating high-quality, reproducible data from a variety of sample types. The Spotlight 400 FT-IR Imaging System combines high sensitivity and rapid imaging with ease-of-use. The ability to image large sample areas...

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MM-L300A Desktop Laser Weld Monitor

AMADA WELD TECH INC.

AMADA WELD TECH'S MM-L300A laser weld monitor determines weld success by detecting and recording a thermal signal from the area of laser interaction and providing an output waveform around which limits can be set to identify good or bad welds.

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Automated Wafer-level PIC Test

ficonTEC Service GmbH

ficonTEC's new Wafer-level Test (WLT) product line is specially designed as a versatile, fully automated test-&-measurement system platform for on-wafer device test, for example, of on-wafer optical elements, PICs and hybrid opto-electronic devices.

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:: Featured Video

Deformable Mirrors for Optical Performance - ALPAO

ALPAO Deformable Mirrors (DM) are based on continuous reflective surface motioned by magnetic actuators. They feature large strokes, high dynamic motion, and an excellent optical quality to meet and exceed your requirements for fast and accurate wavefront correction.

[Watch Now](#)

:: Upcoming Webinars

Expanding Quantum Frontiers with Superconducting Single-Photon Detectors

Tue, Oct 19, 2021 10:00 AM - 11:00 AM EDT

Félix Bussi eres, Ph.D., VP of Research and Technology at ID Quantique explores the technology of superconducting nanowire single photon detectors – optical detectors with incredible efficiency and speed across the visible, IR and fiber-telecom wavelengths – as well as the key scientific applications and emerging technologies they enable, and the benefits therein. He also discusses the outlook for the quantum technology field. Presented by ID Quantique.

[Register Now](#)

Ensuring Manufacturing Process Success in Laser Microwelding

Thu, Oct 21, 2021 1:00 PM - 2:00 PM EDT

This webinar with Mark Boyle, Ph.D., Senior Manager for Product Engineering and Applications at AMADA WELD TECH INC., covers several key factors to consider in laser microwelding process development and measurement before, during, and after a weld. Boyle discusses how the transition from R&D to production can be ensured and optimized.

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