Thursday, August 12, 2021

This Week in PHOTONICS

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.: Top Stories

Precise Reference Signals Sent Through Conventional Telecom Tech
A Swiss research project has shown that high-precision reference signals can be sent via conventional telecommunications infrastructure. The project, part of the Swiss National Science Foundation's Synergia program, represents an advance to optical clocking and optical metrology technologies.

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Air Force Tests Directed Energy System in Wind Tunnel
The U.S. Air Force Research Laboratory (AFRL) is performing tests of directed energy (DE) systems in a wind tunnel to prepare the technology for airborne use. AFRL is working with the Aerodynamics Branch of the Arnold Engineering Development Complex at Arnold Air Force Base.

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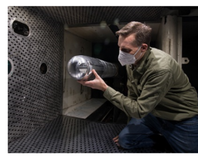

Pulsed 'Laser-in-Liquids' Approach Speeds Catalyst Discovery
A team at the University of Rochester showed the efficacy of pulsed lasers in accelerating research into chemical catalysts. The development of even a single catalyst material capable of triggering the arrangement and motion of the atoms needed to react favorably with the right chemical compounds can take months or even years using traditional wet chemistry procedures.

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.: Featured Products

1938-R/2938-R Optical Power Meters

MKS/Newport
The all new 1938-R and 2938-R power meters inherited most of the advanced functions available in the x936-R series, as well as an up-to-date CPU, touch screen, Android OS, and high-bandwidth electronics design. Ideal for high speed, modulated light measurements, these new power meters are powerful, fast, and versatile.

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Industrial Laser Safety at a Glance

Photonics Media
A straightforward guide, offering clear, real world explanations of laser safety elements and the necessary background materials for the industrial laser environment. It raises awareness of the dangers of laser exposure, the proper tools needed to protect oneself from the potential hazards of industrial lasers...

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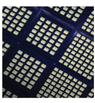
.: Upcoming Webinars



AuSn Thin-Film Technology and AuSn Pre-deposited Substrates for Optoelectronics
Wed, Aug 25, 2021 10:00 AM - 11:00 AM EDT
AuSn thin film is a critical technology to enable an optoelectronic device to ensure durability, anti-oxidation ability and reliability compared with Indium, SnPb, SnBi, and others. In this webinar, Allen Liu of Focuslight Technologies Inc. explains the design, key processes, and application data of high-power laser diode devices. Presented by FocusLight Technologies Inc.

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Freeform Optics for Imaging: Mid-Spatial Frequency Errors
Thu, Aug 26, 2021 1:00 PM - 2:00 PM EDT
Residual mid-spatial frequency (MSF) surface errors are common byproducts of the computer-controlled sub-aperture manufacturing techniques needed for fabrication of freeform optics. In this presentation, Thomas Suleski, Ph.D., provides an overview of MSF surface error signatures, specification methods, and performance impacts. Part 3 of the 2021 Freeform Optics Series.

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