

This Week in PHOTONICS

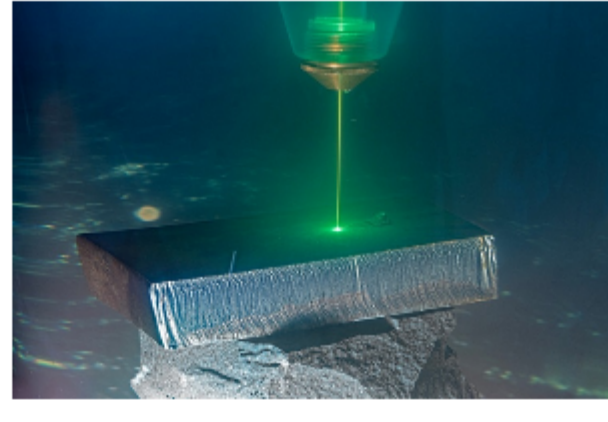


Shortwave Infra, Broadband Spectrum Solution Provider
State-of-the-Art of Customized Service and Simulation

:: Top Stories

Underwater Laser Cutting Method Saves Energy, Optimizes Efficiency

The need for modern technologies to dismantle existing underwater infrastructure is growing due to increasing demand for renewable energy sources. For example, to bring a wind power plant in the sea up to higher powers, the existing old steel frames, which may be below sea level, must first be dismantled so that engineers can rebuild them to obtain these higher powers. In laboratory tests, researchers at the Fraunhofer Institute for Material and Beam Technology IWS (Fraunhofer IWS) have developed a shortwave green laser method for beneath-sea cutting that offers multiple advantages over commonly used techniques that use saws, automatic saw wires, and plasma cutters, for example.



[Read Article](#)

Ghent University, imec Spinout Axithra Raises \$10M

Axithra, a spinout of imec and Ghent University, has raised €10 million (\$10.7 million) in a seed round to develop a chip-based Raman spectroscopy platform to monitor drug concentration in the blood. The seed round, which saw backing from Hamamatsu, secures the first two years of research and development.



[Read Article](#)

Financing Moves Diamond Light Source Upgrade Forward

A nearly £520 million (\$648.3 million) investment in the U.K.'s national synchrotron, Diamond Light Source, will lead to the implementation of three new flagship beamlines, as well as upgrades to existing beamlines. The U.K. Department for Science, Innovation, and Technology, together with the biomedical charity Wellcome, approved the facility upgrade project, with an investment of 86% from the U.K. government and 14% from Wellcome.

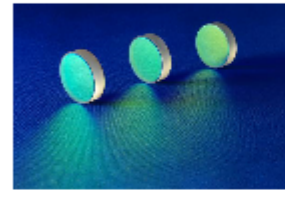


[Read Article](#)

Difficult Coatings Made Possible
DEPOSITION SCIENCES, INC. depisci.com

NYFORS
ADVANCED LASER FUSION SPLICING AND GLASS PROCESSING
[LEARN MORE](#)

:: Featured Products & Services



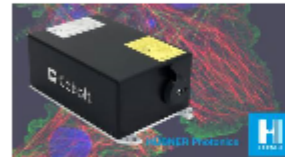
Notch Filters

Deposition Sciences Inc. (DSI)

DSI designs and manufactures notch and bandpass filters, beamsplitters, ARs and absorption coatings for use in the VIS to the MWIR wavelength regions, customized to specific requirements. Using photolithography, we can also pattern these coatings with feature sizes as small as 20 μm to define apertures, segments and/or fiducials.

[Visit Website](#)

[Request Info](#)



Cobolt Jive™ 561 nm CW Laser – 1 W

HÜBNER Photonics GmbH

HÜBNER Photonics, manufacturer of high-performance lasers, showcases the release of a higher power model of the Cobolt Jive 561 nm on the 05-01 Series platform. Now with up to 1 W CW output power, the Cobolt Jive is perfectly suited to demanding applications in fluorescence microscopy, especially for super resolution...

[Visit Website](#)

[Request Info](#)

ORDER NOW
ENJOY THE PERFECT BALANCE BETWEEN SIZE, QUALITY AND PRICE!
The new uEye XLS cameras **IDS**

Chicago, IL
ICALEO
International Congress on Applications of Lasers and Electro-Optics
October 16-19, 2023

:: More News

[Quanergy, Teledyne FLIR Collaborate on Infrastructure Security](#) [Read Article](#)

[Tomography Technique Images Thick Bio Samples at High Resolution](#) [Read Article](#)

[Optical Resonator Design Eliminates Loss](#) [Read Article](#)

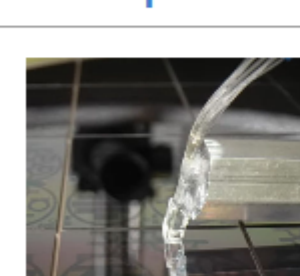
[Shoei Chemical Acquires Quantum Dot Business from Nanosys](#) [Read Article](#)

[DRDC Awards Immervision \\$5.7M to Develop Panoramic Imaging Systems](#) [Read Article](#)

ecoc 2023
EXHIBITION 2-4 OCTOBER
2-4 OCTOBER 2023
GLASGOW, SCOTLAND
REGISTRATION IS OPEN
ecocexhibition.com

PLAN TO PARTICIPATE
SPIE. SMART STRUCTURES+ NONDESTRUCTIVE EVALUATION
25-28 March 2024
Long Beach, California, USA
spie.org/ss

:: Upcoming Webinars



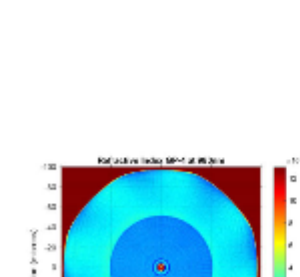
Precision Automation Principles for the Optimal Testing and Packaging of PIC Devices

Thu, Sep 21, 2023 1:00 PM - 2:00 PM EDT

Production-scale testing of silicon photonic devices continues to be a challenge due to the multi-degree-of-freedom, high-precision, optical alignments required for wafer- and die-level testing. Wide variances in chip designs and coupling features complicate test procedures, making it difficult to

identify a system capable of producing repeatable measurements across various topologies. Brett Heintz of Aerotech Inc. provides a guide for selecting precision motion equipment to minimize the impact of positioning errors on optical alignment test results. Presented by Aerotech.

[Register Now](#)



The Past, Present, and Future of Optical Fiber

Tue, Sep 26, 2023 1:00 PM - 2:00 PM EDT

Hair-thin strands of glass, intrinsically transparent and strong, connect today's world in ways that are unimaginable even 20 years ago. Over the past 50 years, glass optical fibers have advanced from passive low-loss conduits for light to active light-amplifying hosts to a myriad of nano-to-macro-structuring of core-clad combinations. John Ballato of Clemson University discusses this history as a

looking glass into the future of optical fibers and its symbiosis with light to address the question: What can the next 50 years bring? Sponsored by Fibercore and Lumatec GmbH.

[Register Now](#)



CALL FOR ARTICLES!

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *BioPhotonics*, and *Vision Spectra*). Please submit an informal 100-word abstract to editorial@Photonics.com, or [use our online submission form](#).

PHOTONICS spectra
INFRARED OPTICS SUMMIT
September 20, 2023
[#PhotonicsSpectra](#)
Register for FREE

SUBMIT YOUR ABSTRACT TODAY
SPIE. DEFENSE+ COMMERCIAL SENSING
21-25 April 2024
National Harbor, Maryland, USA



We respect your time and privacy. You are receiving this email because you are a Photonics Media subscriber, and/or a member of our website, Photonics.com. You may use the links below to manage your subscriptions or contact us.

Questions: info@photonics.com

[Unsubscribe](#) | [Subscribe](#) | [Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949

© 1996 - 2023 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office. Reproduction in whole or in part without permission is prohibited.