Thursday, July 10, 2025

PHOTONICS spectra

Weekly News

TRUMPF Divests Additive Manufacturing Business, Making Medical Devices Accurate for All Skin Tones

TRUMPF has signed an agreement to divest its metal additive manufacturing business. Wabtec is spending more than $2 billion dollars to acquire two photonics companies focused on sensing and inspecting. A new alloy from Allvar could help NASA scientists find the next habitable planet beyond our solar system. Researchers from MIT and the University of Texas at Austin, have created a chip-based 3D printer the size of a quarter. And in an effort to make medical devices more accurate for all skin tones, researchers from Brown University and Morgan State University have created a smart phone system to improve readings in pulse oximetry. Sponsored by Thorlabs.

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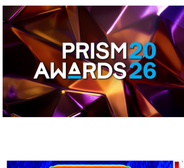
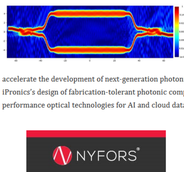
TRUMPF Divests Additive Manufacturing Business

TRUMPF has signed an agreement to divest its additive Manufacturing business, which includes both laser metal fusion and powder bed fusion technologies. TRUMPF will divest the assets to Lenbach Equity Opportunities III. GmbH & Co. KG, a fund managed by the Munich-based private equity firm DUBAG Group. In a press release, Lenbach said that it plans to structure the acquisition as a new group operating out of Schio, Italy, the current development and production site of the business. That site was acquired fully by TRUMPF in 2021, having previously been a joint venture with Italian partner SIMA S.p.A. since 2014. Read Article



SPIE Opens Applications for 2026 PRISM Awards

Applications are now open for the 2026 SPIE Prism Awards. The awards, presented by SPIE, the international society for optics and photonics, recognize the most innovative products on the market, across the growing range of optics and photonics applications. The annual industry event will celebrate its 18th anniversary on Jan. 21, during a gala evening at SPIE Photonics West. Read Article



iPronics Collaborates with Ansys to Boost PIC Reliability

iPronics, a developer of software-defined photonics, is collaborating with software solution provider Ansys to accelerate the development of next-generation photonic integrated circuits (PICs). The collaboration will merge iPronics's design of fabrication-tolerant photonic component with Ansys' multiphysics simulation tools to advance high-performance optical technologies for AI and cloud data centers. Read Article

Featured Products & Services

QOOLSENSE™ Compact Thermal Test Chamber

Sheetak

QOOLSENSE is a compact thermal test chamber for laser diodes, sensors, and photonics devices. It delivers fast, precise temperature control from -30 to 90 °C without refrigerants, ideal for lab testing, calibration, and validation in aerospace, telecom, and optical systems.

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More News

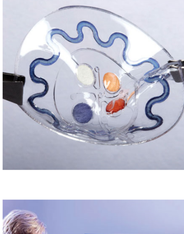
Optical Computing Company Arago Raises $26M in Seed Funding

Fraunhofer Collaboration Yields Telescope for Satellite-Based Laser Communication

Quantum Sensor Generates Own Light Source to Detect Biomolecules

Emberion Funding Round Fuels Production, Expansion

Latest Webinars

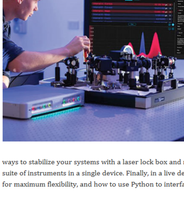


Photonics Systems for Human Health Care and Biomedical Research

Tue, Jul 22, 2025 1:00 PM - 2:00 PM EDT

Advanced photonics technologies that allow stable, intimate integration with living organisms will accelerate progress in biomedical research. These systems will also serve as the foundations for new approaches for monitoring and treating diseases. This presentation describes the core concepts in optics, optical materials, devices, and systems for two classes of such technologies: 1) colorimetric, wearable microfluidic systems for capture, storage, and quantitative biomarker analysis of eccrine sweat, and 2) cellular-scale optoelectronic probes for neuroscience studies in small animal models.

Register Now



Quantum Sensing with Atomic Systems and Reconfigurable Instrumentation

Wed, Jul 23, 2025 1:00 PM - 2:00 PM EDT

Quantum sensing leverages the fundamental quantum behavior of atoms and light to measure weak signals with precision beyond that of classical methods. These measurements make use of trapped ions and cold atoms, and include applications such as magnetic field sensing, optical atomic clocks, and quantum gravimetry. Critical to these techniques are ultra-cold temperatures, coherent quantum control, and sensitive optical readout, which pose significant hardware challenges with regard to laser stabilization, timing, and noise suppression. During this presentation, find out how to generate and detect synchronized RF pulse trains, such as a Ramsey sequence, using a software-defined waveform generator and lock-in amplifier. Plus, see new ways to stabilize your systems with a laser lock box and measure clock stability with a phasemeter, using a reconfigurable suite of instruments in a single device. Finally, in a live demonstration, learn how to deploy these instruments simultaneously for maximum flexibility, and how to use Python to interface with each. Presented by Liquid Instruments.

Register Now

All Things Photonics

Holographic Displays: From the War Room to the Living Room — With Wally Haas

Long thought of as a technology of the future, holographic displays are now making their way to the commercial market. In this episode, Avalon Holographics CEO **Wally Haas** explains how the technology works, and where his company's NOVAC display is finding use. The conversation also offers a look to the future, where these displays can be produced at lower cost and find much broader use.

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