Thursday, August 28, 2025

PHOTONICS spectra

Weekly News

Haylo Labs Acquires Plessey Semiconductors, Nvidia plans for Light-Based Interconnects by 2026

Addressing AI's core needs, Nvidia plans to roll out silicon photonics interconnects to implement light-based communication between AI GPUs by 2026. Haylo Labs acquires micro-LED display tech developer, Plessey Semiconductors, with plans to invest big in this new branch. Thorlabs is naming Bruno Gross Executive Vice President of Global Business. Optical solutions company, Jabil, has opened a new advanced photonics packaging facility in Ottawa. And researchers have developed an OLED contact lens that could transform how retinal exams are conducted, for both patients and doctors. Sponsored by Thorlabs.

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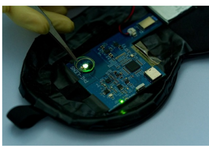
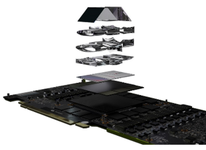
Haylo Labs Acquires Plessey Semiconductors, Boosts Micro-LED and Optical Computing Market Presence

Haylo Labs has acquired Plessey Semiconductors, a developer of micro-LED display technology. Haylo Labs plans to invest more than £100 million ($134 million) in the U.K. over five years to scale Plessey's manufacturing capacity and grow the company's workforce. Read Article



OLED Contact Lenses Expand Options for Diagnostics and Treatment

A wireless contact lens that integrates OLED technology into ophthalmic diagnostics could transform the way in which ocular health is monitored, benefiting both patients and practitioners. The lens is the result of a collaboration among the Korea Advanced Institute of Science and Technology, the Electronics and Telecommunications Research Institute, and the Seoul National University Bundang Hospital. Read Article



Terakraft and Neurophos Partner on AI Computing

Terakraft, an AI datacenter operator, and Neurophos, an AI chip company, have entered into a collaboration agreement to provide sustainable, high performance and energy efficient AI infrastructure. The companies plan to host a pilot as part of a commercial early access program in 2027 for Neurophos' accelerated AI inference platform. The project will provide a real-world proving ground for sustainable, ultra-efficient compute — complementing today's GPU-driven systems with experimental next-generation photonic hardware. Read Article

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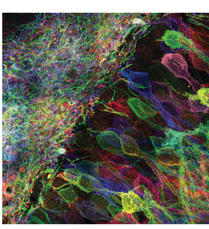

Tools for Analyzing, Controlling, and Simulating Biological Systems

Tue, Sep 16, 2025 1:00 PM - 2:00 PM EDT

It was discovered that one can physically magnify biological specimens by synthesizing dense networks of swellable polymer throughout them, and then chemically processing the specimens to isotropically swell them. This method, which is called expansion microscopy, enables ordinary microscopes to do nanoimaging – important for mapping molecules throughout cells, tissues, and organs. As a second example, Ed's team serendipitously discovered that microbial rhodopsins, genetically expressed in neurons, could enable their electrical activity to be precisely controlled in response to light. These molecules, now called optogenetic tools, enable causal assessment of how neurons contribute to behaviors and pathological states, and are yielding new candidate treatment strategies for brain diseases. Finally, the development of new strategies such as robotic directed evolution, fluorescent reporters enable the precision measurement of signals such as voltage. To reveal relationships between different molecular signals within a cell, there is work of developing spatial and temporal multiplexing strategies that enable many such signals to be imaged at once in the same living cell. Sponsored by Zaber Technologies Inc., Jenoptik and COMSOL Inc.

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