

This Week in PHOTONICS

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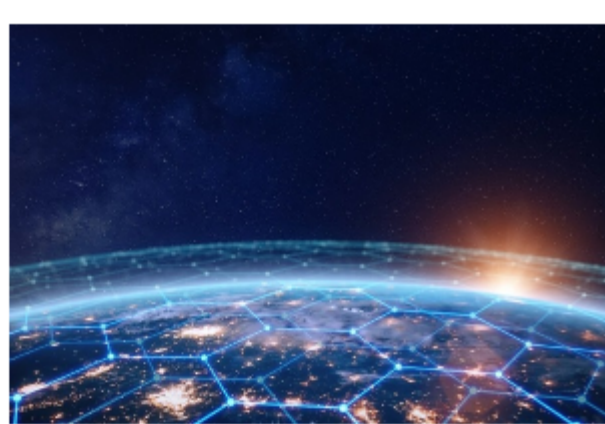
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Top Stories

Rivada Contracts Terran Orbital to Build 300 Satellites

Rivada Space Networks GmbH has enlisted Terran Orbital, through its subsidiary Tyvak Nano-Satellite Systems, to manufacture 300 low-Earth-orbit (LEO) satellites for its laser-connected "network in the sky" in a contract worth \$2.4 billion. Per the contract, Tyvak Nano-Satellite Systems will design, build, and deploy 288 low-Earth-orbit satellites for Rivada, and it will also develop 12 "spare" satellites.

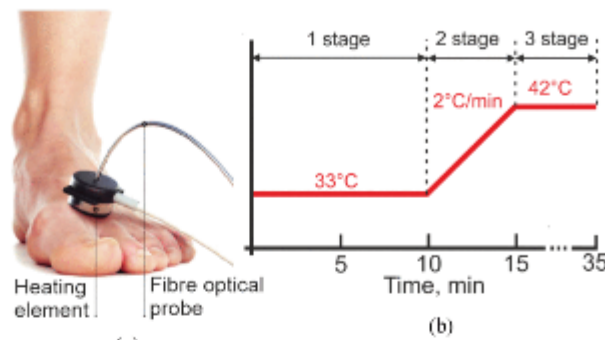
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Laser Method Boosts Accuracy of Blood Flow Measurements in Feet

Researchers from Aston University have developed a method to improve the accuracy of blood flow measurements in the feet of patients with Type 2 diabetes. The laser-based technique improves accuracy in detecting minute changes in microcirculation, and it improves on the method of laser Doppler flowmetry (LDF), which is commonly used to check circulation in the feet.

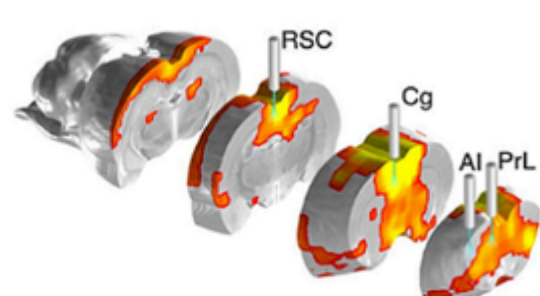
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Novel Platform Reveals Insights into Large-Scale Brain Network Control

Researchers at the University of North Carolina (UNC) School of Medicine combined fiber photometry with functional magnetic resonance imaging (fMRI) to examine the dynamic activity of brain regions related to the brain's default mode network (DMN). With the help of Stanford University scientists — and advanced computational modeling — the researchers obtained results that could provide a more informed model for translational studies.

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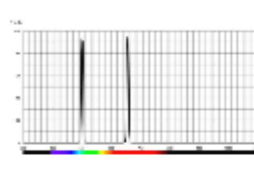
HyperFine Brillouin Spectrometer

LightMachinery Inc.

The great challenge with Brillouin spectroscopy is that the scattered signal from the un-shifted wavelength of the laser can overwhelm the small Brillouin shifted return signal. LightMachinery has combined its leading-edge HyperFine spectrometer with a very narrow band tunable filter to suppress the bright un-shifted laser frequency.

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Multi-Bandpass Filters

Delta Optical Thin Film A/S

Delta Optical Thin Film has introduced a range of Multi-Bandpass Filters that transmit two or more distinct wavelength bands while blocking others. These filters are well suited for multi-purpose point-of-care instruments using multiple excitation and/or multiple emission wavelengths.

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Upcoming Webinars

Soft Optical Systems as Biointegrated Technologies: From Biological Research to Clinical Health Care
Tue, Mar 7, 2023 1:00 PM - 2:00 PM EST
Advanced optoelectronic systems that can intimately integrate with soft living tissues have the potential to accelerate progress in biological research and to serve as the foundations for new approaches in patient care. John Rogers, Ph.D., of Northwestern University describes foundational concepts in optics, device physics, and manufacturing processes for these types of technologies, along with examples of commercialized systems for neuroengineering and patient monitoring.

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The Universe Through Sight, Sound, and Touch: Exploring Multiwavelength Astrophysics Data Sets
Wed, Mar 8, 2023 1:00 PM - 2:00 PM EST
Information about the universe can be more than just a two-dimensional snapshot. Researchers are able to transform these digital assets to listen to, feel, or virtually move through cosmic objects. Kimberly Arcand, Ph.D., shares how it is possible to listen to the debris from an exploded star, walk through the core of the Milky Way in 3D through virtual reality, feel vibrations of a stellar nursery, and experience the universe anew. She focuses on some of the innovative ways that experts and non-experts can explore astrophysical data through sonification, 3D printing, and extended reality.

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