

# This Week in PHOTONICS



## .: Top Stories

### SPIE Names Winners of 15th Annual Prism Awards

SPIE, the international society for optics and photonics, has recognized the top-rated new optics and photonics products with the industry-focused Prism Awards. The gala evening, held during SPIE Photonics West, also marked the Prism Awards' 15th anniversary with a champagne toast. Winners were crowned in eight categories.

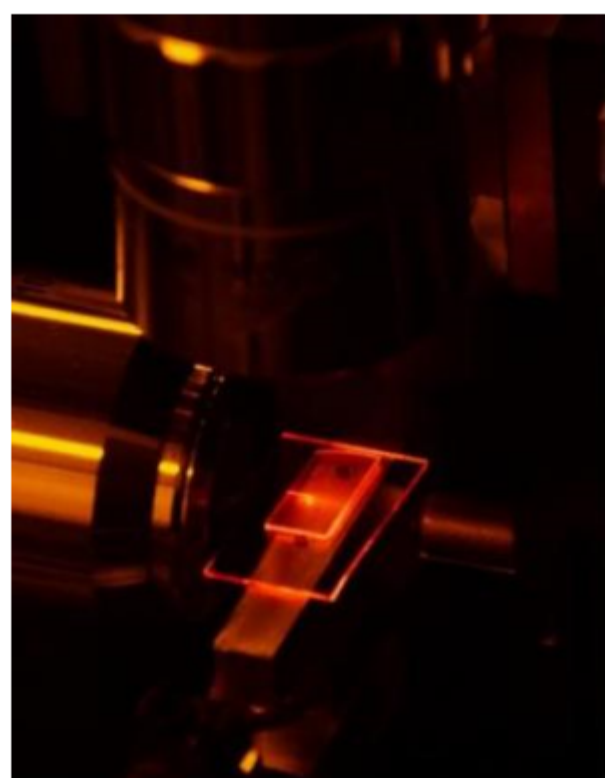
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### Researchers Develop Chip-Size Titanium-Doped Sapphire Laser

A team of researchers has developed what is reportedly the first chip-scale titanium-doped sapphire laser — an innovation that could lead to new applications ranging from atomic clocks to quantum computing and spectroscopic sensors.

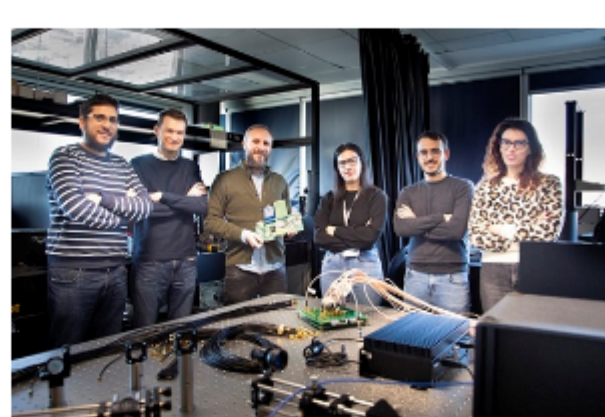
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### Time-Tagging Captures Cellular Activity with Single-Photon Microscopy

BrightEyes-TTM, an open-source time-tagging module (TTM) developed at the Italian Institute of Technology (IIT), enables scientists to observe the dynamic processes of molecules inside living cells over time, at a thousandth of a millisecond scale. BrightEyes-TTM can be used to study the variations that occur at the cellular level when a healthy cell becomes diseased.

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## .: Featured Products & Services



### [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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### [Diffraction Gratings for Telecommunication](#)

**CASTECH INC.**

CASTECH's high DE reflection grating is ideal for WSS and other applications in the optical communication industry. The high-precision design of the grating provides outstanding diffraction efficiency and perfect uniformity.

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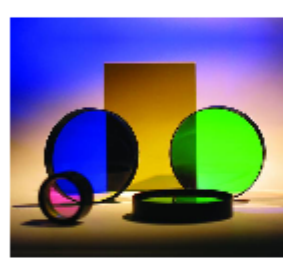
### [Spatial Light Modulators](#)

**Santec USA Corp.**

Our LCOS-SLMs are suitable for a range of applications including those requiring high-speed response, high-power tolerance, and UV light hardening. Santec SLMs feature 10-bit control (1024 gray levels), and excellent phase stability of less than 0.002π.

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### [Custom WL Selective Optical Filters](#)

**Iridian Spectral Technologies**

Iridian Spectral Technologies designs and manufactures wavelength selective optical filter solutions from the UV to LWIR providing "more signal, less background", customized to meet the technical and commercial needs of OEM customers in applications such as communications, spectroscopy, bio-analysis, and remote sensing.

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## .: More News

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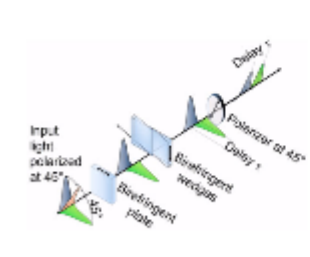
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## .: Upcoming Webinars

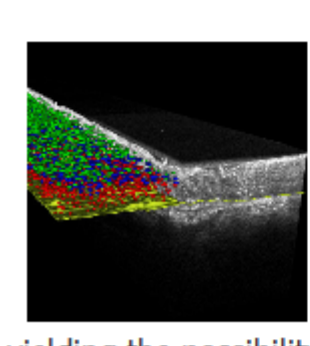


### Innovations in Interferometry: Fourier Transform Spectroscopy in the Palm of Your Hand

Wed, Feb 15, 2023 10:00 AM - 11:00 AM EST

Alex Barker of NIREOS shares how a common-path visible interferometer functions, as well as the counterintuitive ways in which it differs from a dispersion-based spectrometer. In a short time, these instruments have been used for a startling variety of spectroscopic experiments, such as time-resolved fluorescence, pump-probe spectroscopy, and stimulated Raman scattering. Using these examples, Barker demonstrates the advantages and disadvantages that common-path visible interferometers provide.

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### Technical Advancements in Line-Field Confocal Optical Coherence Tomography for Improving the Management of Skin Cancer

Tue, Feb 28, 2023 10:00 AM - 11:00 AM EST

Line-field confocal optical coherence tomography (LC-OCT) is an imaging technique based on a combination of reflectance, horizontal microscopy and time-domain OCT. It can generate cellular-resolution vertical images, horizontal cross-sectional images, and three-dimensional (3D) images, yielding the possibility for optical biopsies of skin tissue in vivo and in real time. Jonas Ogien, Ph.D., of DAMAE Medical introduces the basic principles of LC-OCT and shares an overview of new technical advancements based on the register.

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