



Weekly News



**New and Improved Skipper CCDs Count Photons from Distant Galaxies**

Using an instrument on the 4.1-meter Southern Astrophysical Research Telescope, researchers obtained the first astronomical spectrum using skipper charge-coupled devices. Originally envisioned for this purpose, the technology has been largely limited to the study of charged particles since its introduction in 1990. [Read Article](#)



**Topological Platform Can Increase Frequency Comb Efficiency**

A new path to generating optical frequency combs, developed by a team from the University of Maryland, resulted in a nested comb-within-a-comb that could lead to smaller, more efficient frequency combs for atomic clocks, rangefinders, quantum sensors, and other applications that require precise measurement of light. [Read Article](#)



**Applications Open for 2025 SPIE Prism Awards**

SPIE, the international society for optics and photonics, is accepting applications for its 2025 Prism Awards, which will celebrate its 17th anniversary on January 29 during a gala evening at SPIE Photonics West. The awards, held annually by SPIE, recognize and honor the most innovative products on the market across the wide range of optics and photonics applications. [Read Article](#)

the market across the wide range of optics and photonics applications. [Read Article](#)



Featured Products & Services



**AURA Light Engine**

**Lumencor Inc.**

Why settle for archaic bulbs and weak LEDs when

optimal solid-state performance and value are within reach? AURA Light Engine provides bright, stable, reproducible illumination for OEMs.

Proprietary light sources and advanced electronics make this excitation subsystem ideal for instrument manufacturers. Customization is available upon request.

[Visit Website](#)

[Request Info](#)



**Green Laser to Deliver Stability**

**Ampliconix Oy**

The AMPX-PICO-532

picosecond green fiber laser, developed with patented technology, is designed to break new ground in time and spectral resolution flavored by versatile OEM integration and elegant control.

[Visit Website](#)

[Request Info](#)

**Looking for something else? Check the Photonics Marketplace.**



More News

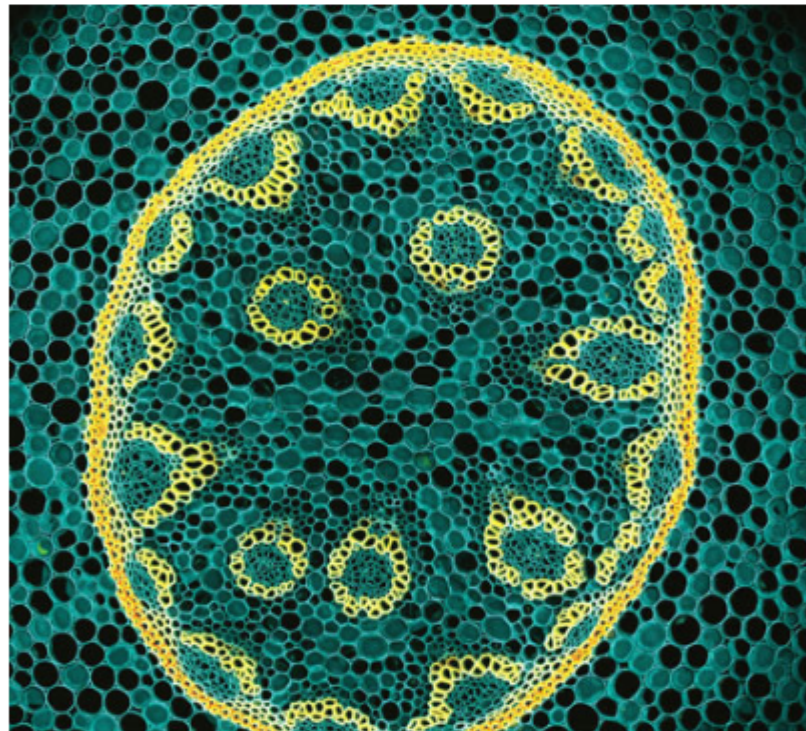
[Optical Tweezers Set up Entanglement for Long-Distance Quantum Computing](#)

[Insights on Photon Shapes Hold Promise for New Tech](#)

[Optogenetics Identifies Blood Sugar Regulating Pancreatic Cells](#)

[Microlaser Bandage Measures Glucose Without Drawing Blood](#)

Latest Webinars



**Beam Steering with Galvos: Common Configurations and Their Uses**

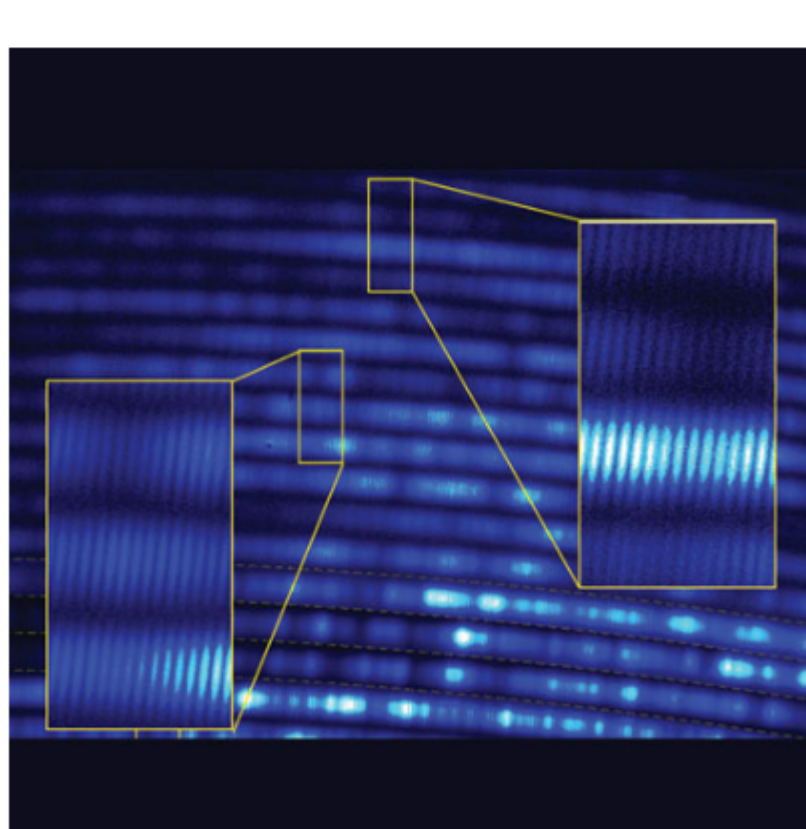
Wed, Jul 24, 2024 1:00 PM - 2:00 PM EDT

Galvanometer scanning systems are highly configurable tools for steering laser beams and are used in applications including microscopy, lidar, and the laser processing of materials.

Choosing the correct configuration for a particular application requires the consideration of a wide range of factors. In this webinar, Carol Borsa from Thorlabs compares commonly available configurations and discusses the merits of each. She provides key insights to specifications on data sheets, and guides users to suitable solutions. This presentation also covers basic integration steps and requirements, as well as helpful tools for finding the limits of a system. Participants will gain insights into best practices when choosing a system and will have the opportunity to learn ways to use other available equipment to

integrate confidently. Presented by Thorlabs.

[Register Now](#)



**Measuring Starlight with an Ultrafast Laser: Astrocomb Development for the Extremely Large Telescope**

Tue, Aug 6, 2024 10:00 AM - 11:00 AM EDT

In this webinar, Yuk Shan Cheng of Heriot-Watt University explores the important role of the Extremely Large Telescope's (ELT) ANDES spectrograph and its need for a high-precision frequency comb in order to pursue exciting ventures. She focuses on the development of astrocombs, which are laser frequency comb systems that can provide thousands of stable, atomically referenceable, and evenly spaced calibration lines.

Despite their demonstrated success in labs and various telescopes worldwide, integrating astrocombs into modern telescope facilities presents challenges, including aligning their mode spacings with the spectrograph's resolving power and achieving broad spectral coverage, particularly in the UV-blue/green wave band. This presentation covers the approaches to these challenges, and advancements in astrocomb technology at Heriot-Watt University, including the development of the first continuous UV-blue/green astrocomb.

blue/green wave band. This presentation covers the approaches to these challenges, and advancements in astrocomb technology at Heriot-Watt University, including the development of the first continuous UV-blue/green astrocomb.

[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](mailto:editorial@Photonics.com), or use our [online submission form](#).



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](mailto: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 - 2024 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.



Laurin Publishing