







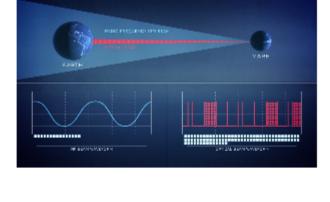
### Hyperfine Spectrometer

A sub-picometer resolution spectrometer in a compact package.

## .: Top Stories

#### NASA Turns to Laser Communications System for Data **Transfer Boost** This summer, NASA will launch its Laser Communications Relay

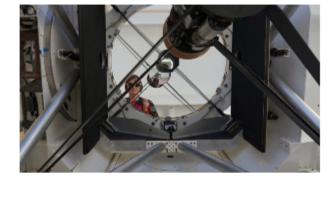
Demonstration (LCRD), setting the stage for high-speed transmission of data between planets. NASA missions have been using the same technology — radio frequency communications — since the 1950s and the beginning of spaceflight. Read Article



artificial guide star to bring objects orbiting Earth into focus. The approach may help mitigate risks from space debris. The guide star laser is a tool in adaptive optics, a field that eliminates the haziness caused by turbulence in the atmosphere. Read Article

Researchers at Australian National University (ANU) have employed an

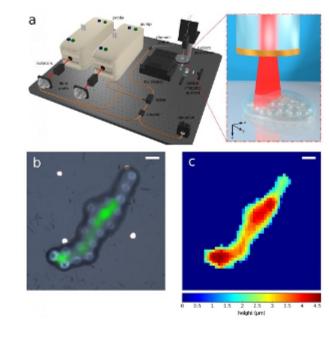
Adaptive Optics Keep an Eye on Space Junk



### A University of Nottingham research team has developed a phonon

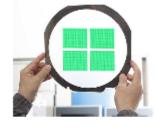
Optical Fiber-Based Probe Enables Phonon Imaging in 3D

probe device that can simultaneously access 3D spatial information and mechanical properties from microscopic objects. The probe operates at the GHz range, at which the wavelength of sound becomes comparable to ultraviolet optical wavelengths, providing opportunity for highresolution imaging. **Read Article** 



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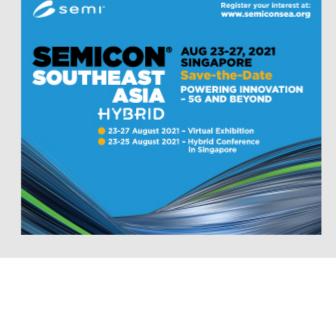
**Short Pulse Lasers** 

Lenses for High-Power

Telecentric 48 mm F-Theta

#### short focal length for high power short pulse lasers.

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.: Upcoming Webinars

Freeform Optics for Imaging: Mid-Spatial Frequency Errors

Residual mid-spatial frequency (MSF) surface errors are common byproducts of the computer-

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#### **OPTICS SERIES** controlled sub-aperture manufacturing techniques needed for fabrication of freeform optics. In this MID-SPATIAL FREQUENCY ERRORS

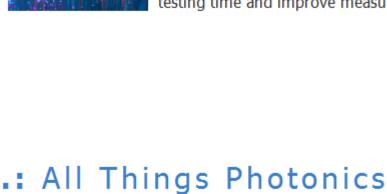
FREEFORM



#### presentation, Thomas Suleski, Ph.D., provides an overview of MSF surface error signatures, specification methods, and performance impacts. Part 3 of the 2021 Freeform Optics Series.

Polarization Extinction Ratio Measurement in Highly Birefringent Materials:

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testing time and improve measurement accuracy. Presented by Luna Innovations, Inc.

This webinar with Wajih Daab, product line manager for Luna Innovations, discusses the Polarization

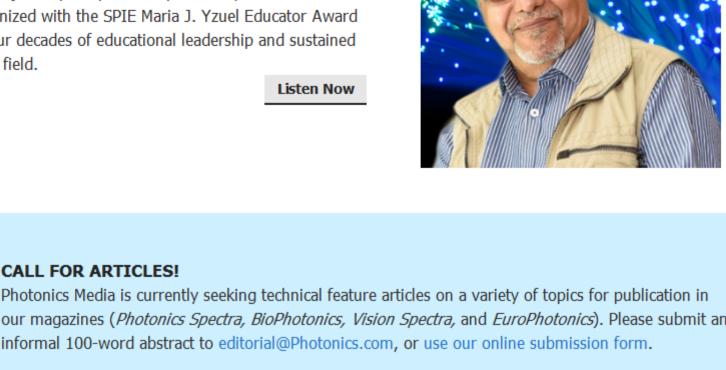
Extinction Ratio (PER) testing solutions offered by Luna which help manufacturers accelerate the

Wed, Jun 23, 2021 1:00 PM - 2:00 PM EDT

Challenges and Solutions

Bishnu Pal, author of "Frontiers in Guided Wave Optics and Optoelectronics" and dean of academics at Mahindra University's Ecole Centrale School of Engineering, is our guest. From his start in semiconductor physics to numerous collaborations in the areas of fiber optics, silicon photonics, specialty fibers, and optical materials, Pal walks us through his journey in optics and photonics, which earlier this year saw him recognized with the SPIE Maria J. Yzuel Educator Award in recognition of four decades of educational leadership and sustained contributions in the field.

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