



Weekly News

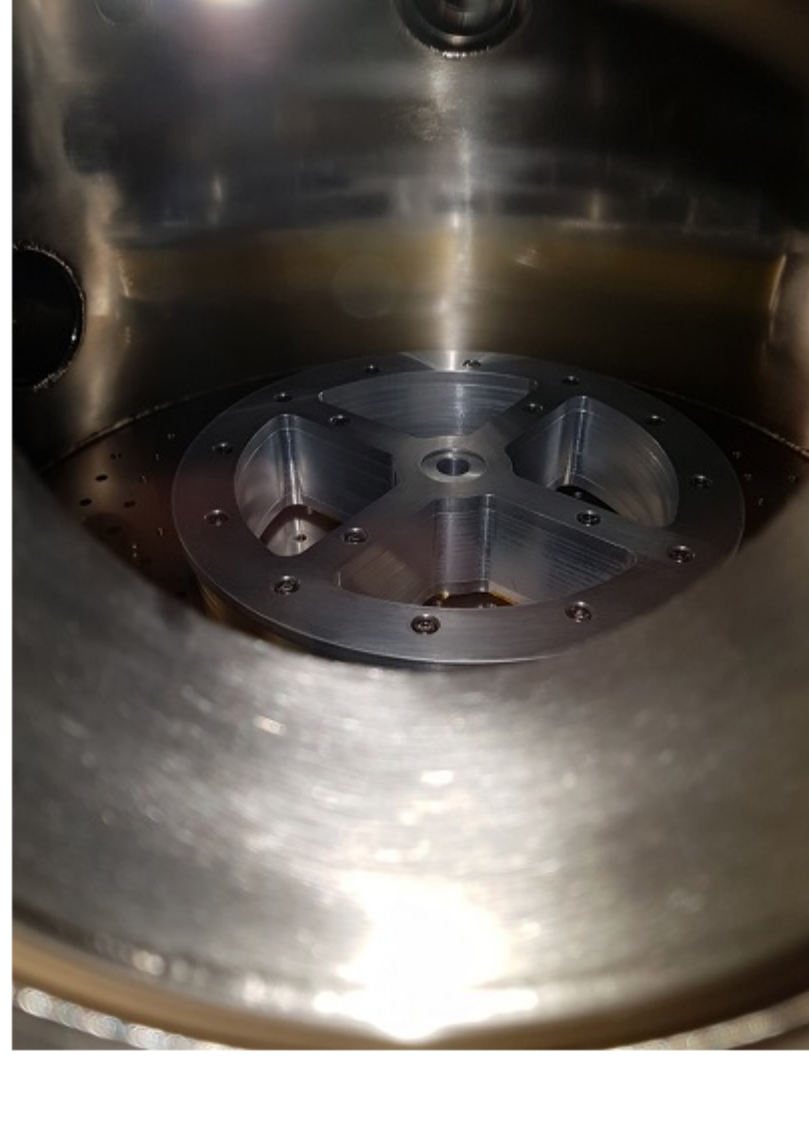


LATTICE
MATERIALS
CZ GROWTH AND LENS MANUFACTURING BOZEMAN, MT

SILICON AND GERMANIUM OPTICS

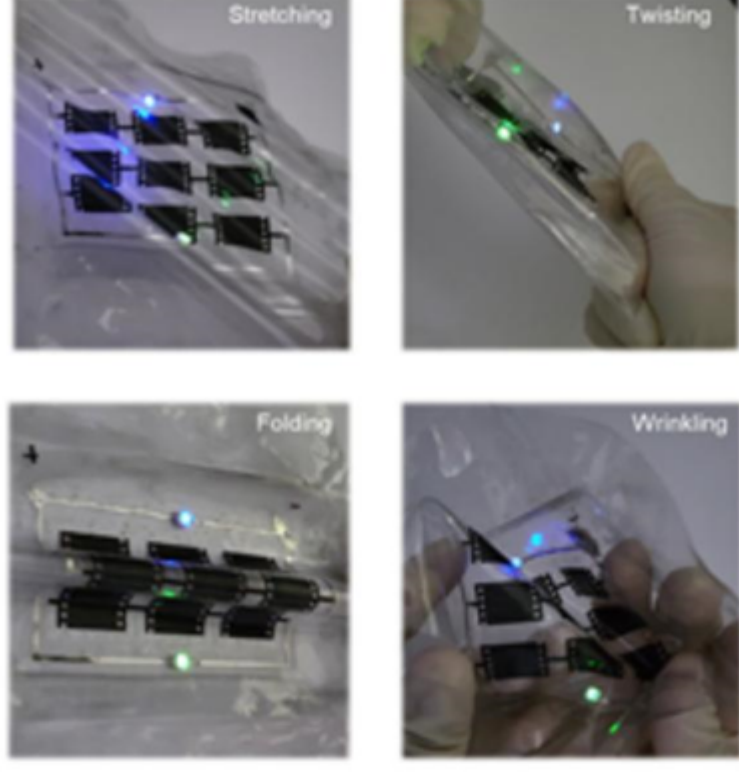
- MEDICAL IMAGING LENS
- IR OPTICS
- LEO SATELLITE OPTICS





Fiber Optic Gyroscope Monitors Active Volcanoes

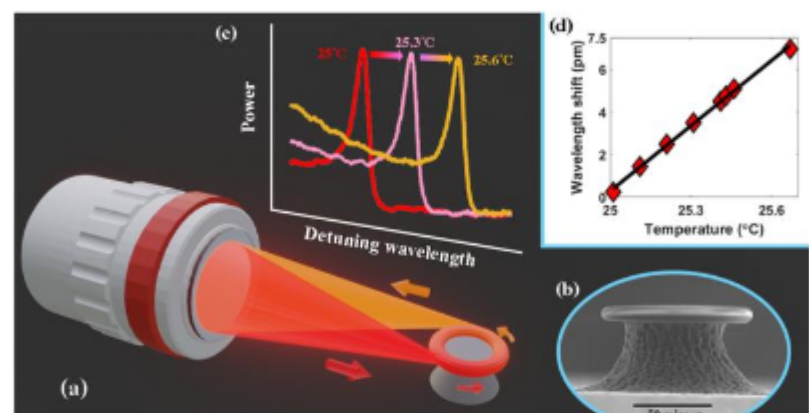
A research collaboration between the Consiglio Nazionale delle Ricerche Istituto Nazionale di Ottica, the National Institute of Geophysics and Volcanology, and the Italian Space Agency has built a prototype fiber optic gyroscope for high resolution, real-time monitoring of ground rotations caused by earthquakes in the active volcanic area of Campi Flegrei in Naples, Italy. The device is expected to provide greater insights into seismic activity in the region, which could provide opportunities for improved risk assessment and potentially for early warning systems. [Read Article](#)



Laser Ablation Empowers Deformable Energy Source for Soft Electronics

Using a laser ablation patterning technique, researchers from the Korea Institute of Industrial Technology and Pohang University of Science and Technology fabricated deformable micro-supercapacitors for storing energy in soft electronic devices. The work addresses the need for energy storage systems in emerging stretchable devices for health monitoring and other applications. [Read Article](#)

Highly deformable MSC



WGM Resonators Get Sensitivity and Portability Boost for Field Use

Research led by professor Judith Su at the University of Arizona has yielded a whispering gallery mode microtoroid resonator design that eliminates the need for a tapered optical fiber. The team designed a free-space coupling system for microtoroid resonators that uses a single objective lens with a digital micromirror device (DMD) for light injection, scattered light collection, and imaging the microtoroid. [Read Article](#)



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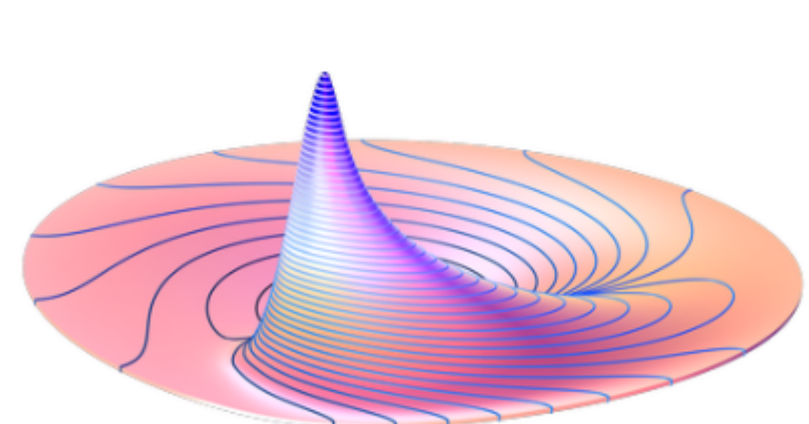


COTS to Custom: Using Microscope Objectives in OEM Products

Thu, Jun 6, 2024 1:00 PM - 2:00 PM EDT

David Biss of Optikos navigates the trade-offs that must be considered when developing the architecture of a microscope. In the vast expanse of life sciences, designing an OEM microscopy platform isn't a one-size-fits-all endeavor. This presentation delves into the common decision points and trade spaces encountered when designing a microscopy system. Biss investigates the pros and cons of implementing commercial off the shelf (COTS) and custom-designed objectives into OEM microscope systems, touching on considerations of performance, repeatability, price, scalability, and more. Presented by Optikos.

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Thermal Modeling of Lasers in Manufacturing Processes

Thu, Jun 13, 2024 2:00 PM - 3:00 PM EDT

For the modeling of lasers in manufacturing processes, it is common to treat the laser as a spatially, or volumetrically, distributed heat source that moves and reorients over time. COMSOL Multiphysics® provides a computational modeling platform that can be used to easily model such heat sources.

Beyond just the modeling of heating profiles over time, it is also possible to model phase change, ablation, and irreversible transformations. Applications of these modeling techniques include precision fabrication processes, medical treatments, and additive manufacturing. This webinar presents an overview of laser thermal modeling and a demonstration of the software in action. Presented by COMSOL.

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