

# PHOTONICS spectra®

## WEBINARS

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### STOP Analysis with COMSOL Multiphysics®

Wednesday, May 31, 2023 2:00 PM - 3:00 PM EDT

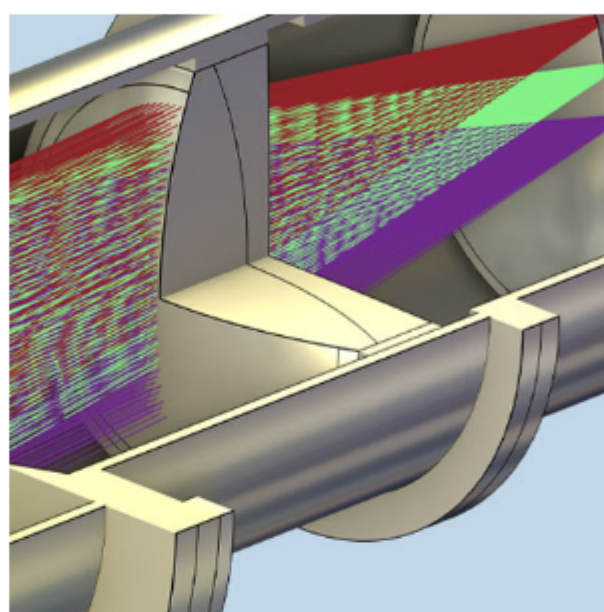
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Presented by



## .: About This Webinar

Optical systems often need to operate in harsh environments, including high altitudes, in space, and under water, where they are subjected to structural loads and extreme temperatures. Similarly, optical devices in high-powered laser and nuclear applications are also subjected to extreme conditions. The most accurate way to fully capture these environmental effects is through numerical simulation using structural-thermal-optical performance (STOP) analysis. This is a quintessential multiphysics problem. With STOP analysis, thermal expansion and the refractive index distribution can be fully coupled with changes to the ray optics trajectories, which is essential for laser-based manufacturing and the like. This presentation shares how to use COMSOL Multiphysics® and the Ray Optics Module to combine ray tracing simulations with structural and thermal analyses to form fully self-consistent STOP models.



The webinar includes a live demo and time for questions.

#### Who should attend:

R&D scientists, engineers, managers, consultants, and educators who utilize or design optical systems. Those who must consider thermal or structural phenomena and their effects on optical performance. Anyone who utilizes cameras, detectors, laser systems, and software in applications such as aerospace, automotive, communications, defense, medicine, or environmental research.

#### About COMSOL:

COMSOL is a global provider of simulation software for product design, engineering, and research in technical enterprises, labs, and universities. The COMSOL Multiphysics® software is an integrated environment for creating physics-based models and simulation applications. Simulation experts use the COMSOL Server™ and COMSOL Compiler™ to deploy applications to customers and design teams worldwide.

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## .: Mark Your Calendar

**Date: Wednesday, May 31, 2023**

**Time: 2:00 PM - 3:00 PM EDT**

Space is limited. Reserve your Webinar seat now at: <https://attendee.gotowebinar.com/register/5337728061019586136?source=eblast>

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## SYSTEM REQUIREMENTS

#### Operating System

Windows® 7 or later, Mac OS® X 10.9 or later, Linux®, Google Chrome™ OS  
Android™ OS 5 or later, iOS® 10 or later

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Google Chrome™ (most recent 2 versions)  
Mozilla Firefox® (most recent 2 versions)

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- Fused Silica Tubes for Optical Fiber Manufacturing: Fiber Performance Sensitivity on Purity and Tube Geometry, 6/14/2023 1:00:00 PM EDT

### Archived Webinars

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- External Light Sources for Co-Packaged Optics: Applications and Beyond
- Addressing the Measurement Challenges of XR Device Optics: Displays, Lenses, and Waveguides

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