



## WEBINARS

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# Thermal Modeling of Lasers in Manufacturing Processes

**Wednesday, June 22, 2022 2:00 PM - 3:00 PM EDT**

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Presented by



## .: About This Webinar

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. In this webinar, Walter Frei shares an overview of laser thermal modeling and presents a demonstration of the software in action.

### Who should attend:

Researchers and engineers who design or utilize lasers and laser systems for applications such as aerospace, agriculture, automotive, machine vision, medical, and energy sources. Manufacturers who work with or want to learn about thermal modeling. Professionals who may be purchasing or producing laser modeling software.

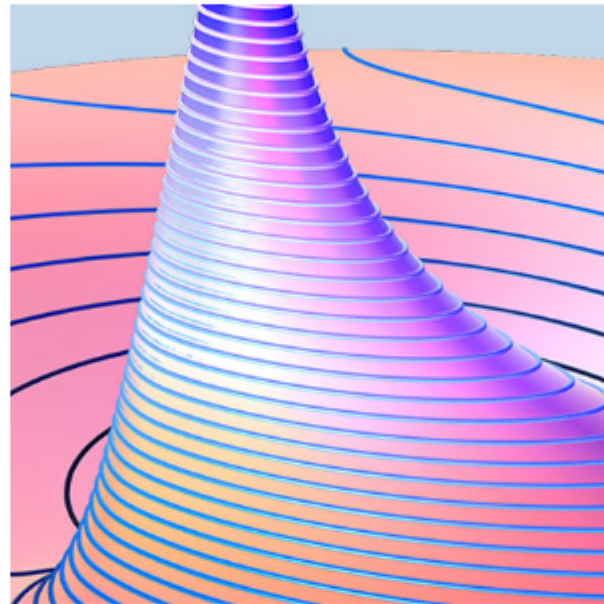
### About the presenter:

Walter Frei, Ph.D. is principal applications engineer at COMSOL, where he has worked since 2008. He holds a doctorate in mechanical engineering from the University of Illinois at Urbana-Champaign, where he focused on the optimization of photonic crystal microcavity lasers.

### About COMSOL Inc.:

COMSOL is a global provider of software solutions for multiphysics modeling. Their COMSOL Multiphysics product is an integrated software environment for creating physics-based models and simulation apps. Add-on products expand the simulation platform for electrical, mechanical, fluid flow, and chemical applications. Interfacing tools enable the integration of COMSOL Multiphysics simulations with all major technical computing and computer-aided design (CAD) tools on the computer-aided engineering (CAE) market. Simulation experts rely on the COMSOL Server product to deploy apps to their design teams, manufacturing departments, test laboratories, and customers throughout the world.

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## .: Mark Your Calendar

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

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