



WEBINARS

Join us for a **FREE Webinar**

Thermal Modeling of Lasers in Manufacturing Processes

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

[Register Now](#)

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.

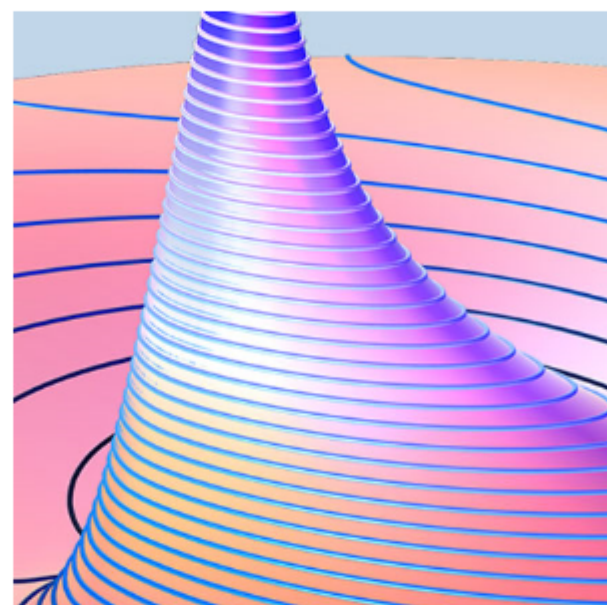
About the presenter:

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.

**Please see www.comsol.com/privacy for COMSOL's Privacy Policy. Contact COMSOL at www.comsol.com/contact for more information. Note that COMSOL will follow up with registrants about this event and any related questions.



.: Mark Your Calendar

Date: Wednesday, June 22, 2022

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

Space is limited. Reserve your Webinar seat now at: <https://attendee.gotowebinar.com/register/8830176106500269323?source=Eblast>

After registering you will receive a confirmation email containing information about joining the Webinar.

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

Web Browser

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

Mobile Devices

Android™ 5 or later
iPhone® 4S or later
iPad® 2 or later
Windows Phone® 8+, Windows® 8RT+

.: More from Photonics Media

Upcoming Webinars

- [Wavelength-Selective Optical Filters: Providing More Signal and Less Background to PCR Instruments](#), 7/7/2022 1:00:00 PM EDT
- [Vision Spectra Conference 2022: July 19 - 21](#), 7/19/2022 8:00:00 AM EDT

Archived Webinars

- [Measuring Long-Wavelength Lasers with IR Cameras, Pyroelectric Scanning-Slit Sensors, and Wavelength Conversion Apparatus](#)
- [Advances in LED Illumination for Fluorescence Imaging](#)
- [Embedded Vision Application Development for Everyone](#)

Don't miss out!

Sign up for our [Webinar Alerts](#) email today and never miss an upcoming event.

We respect your time and privacy. You are receiving this email because you are a Photonics Spectra magazine subscriber. You may use the links below to manage your subscriptions or contact us.

Questions: 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 - 2022 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.