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## Going the Extra Mile with Contrast Optimization: A Practical Comparison of Micro-Imaging System Optimization

Thursday, March 28, 2019 1:00 PM - 2:00 PM EDT

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Presented by

# Zemax

### About This Webinar

Designing micro-imaging systems commonly used in robotic surgery and precision small-scale imaging used in the defense, industrial, and commercial industries requires calculation of the modulation transfer function (MTF), where spatial frequencies beyond a certain value are not needed. A newer method, contrast optimization, greatly simplifies the calculation, giving imaging system designers a better option for targeting imaging quality. Compared to direct MTF optimization, contrast optimization improves the speed of MTF optimization — and results in better design solutions.

This webinar will demonstrate the use of contrast optimization in the development of a micro-imaging system, along with a comparison using other optimization methods. It will also look at results using alternate lens design programs.

#### About the presenter:

Bob Householder has 20-plus years of experience in the field of optics. He holds an M.S. in electro-optics from Tufts University and a B.S. in imaging science from Rochester Institute of Technology. He has concentrated his career in laser and medical optics and LED illumination and is proud to serve leading companies as a strategic account manager for Zemax.

#### Who should attend:

Optical and system designers, engineers, scientists, and researchers who design and develop imaging systems for medical, defense, industrial, consumer, and other industries, and who need to know about the latest advances in precision imaging design.

#### About Zemax:

Zemax software helps companies get to a qualified design more quickly by streamlining the workflow and communication between optical and mechanical engineers. Zemax Virtual Prototyping tools include OpticStudio, industry-leading optical design software, and LensMechanix, a leading application for mechanical engineers to package optical systems in CAD software.



### Mark Your Calendar

**Date: Thursday, March 28, 2019**

**Time: 1:00 PM - 2:00 PM EDT**

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