

# PHOTONICS spectra®

## WEBINARS

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### Choosing the Right Fused Silica for Applications in the Near-Infrared (NIR)

Tuesday, March 2, 2021 1:00 PM - 2:00 PM EST

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Presented by

# Heraeus

## .: About This Webinar

The range of applications in the NIR spectrum is expanding. Many of these are laser-based. Finding the most suitable fused silica for a particular application can be challenging. In this webinar, Todd Jaeger, Ph.D., will present simulation results visualizing the impact of absorption as a key material property on increasing the temperature of optical components.

As the refractive index of fused silica is temperature dependent, a changing temperature of the optical system may lead to varying performance or even damage the optical system. Jaeger will explain two root causes for absorption – (metallic) impurities and OH content. The impact of additional parameters such as laser power and beam size will be discussed as well. Finally, he will elaborate on the fact that it is not necessary to build the best system but to balance price and performance. The webinar will conclude with an open Q&A, for which Jaeger will be joined by Frank Nürnberg, Ph.D.

Although the underlying principles are very scientific, the webinar focuses on the results and the key characteristics to consider. It is designed for anyone who would like to understand the key criteria for the performance of fused silica materials for optical components in NIR applications.

#### Who should attend:

Optical designers, engineers, research scientists, and purchasing agents who are interested in optimizing their optical systems in the area of price and performance. Users of optical systems in the NIR may learn what to look for and how to compare systems of different vendors.

#### About the presenters:

Todd D. Jaeger, Ph.D., is the head of sales for optics at Heraeus Conamic. He has more than 15 years of experience in the optics and photonics industry with a special focus on lasers and spectroscopy. He received his Ph.D. in physical chemistry from the University of Georgia. He is a former member of NASA's Laser Risk Reduction Program at the Goddard Space Center.

Frank Nürnberg, Ph.D., is global sales manager for science & research optics at Heraeus Conamic in Hanau, Germany. He has 9 years of experience with Heraeus in the optics and photonics industry with a special focus on technical support and scientific projects. He is frequently invited for conference presentations on lasers, astronomy and space, and has published various works on fused silica challenges. He received his Ph.D. in laser and accelerator physics from the Technical University of Darmstadt, Germany, in collaboration with the Lawrence Berkeley National Laboratory in California.

#### About Heraeus Conamic:

Heraeus, the technology group headquartered in Hanau, Germany, is a leading international family-owned portfolio company. The Heraeus group includes businesses in the environmental, electronics, health, and industrial applications sectors. Heraeus Conamic is a global business unit of the Heraeus group and is one of the technology leaders and materials specialists for the manufacture and processing of high-purity fused silica and high-end ceramics.

## .: Mark Your Calendar

**Date: Tuesday, March 2, 2021**

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

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