



WEBINARS

Join us for a **FREE Webinar**

Noncontact Optical-Based Metrology for Microlens Characterization

Wednesday, October 5, 2022 1:00 PM - 2:00 PM EDT

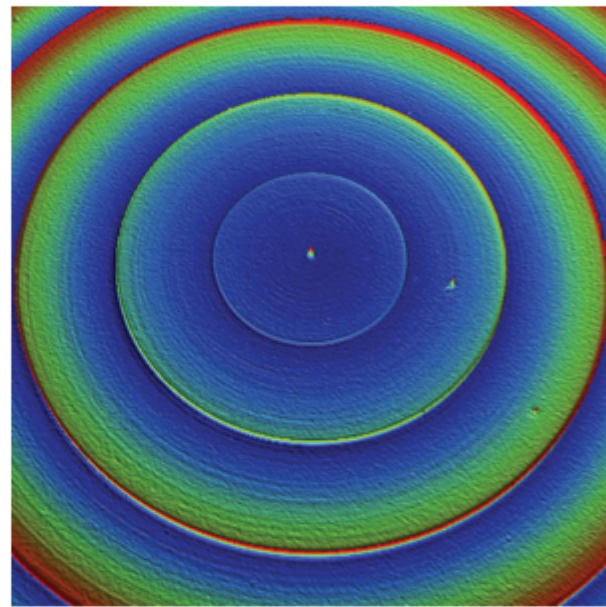
[Register Now](#)

Presented by



.: About This Webinar

Microlenses are critical components used in a wide variety of consumer devices and industrial sensors, ranging from cellphone cameras and virtual reality goggles to 3D displays and advanced driver-assistance systems. Simple lenses have a fixed radius of curvature, but more complex aspheric shapes provide sharper focusing, less distortion, and astigmatism correction. Other design advancements include arrays of microlenses that can focus light from large fields of view to individual pixels on a CMOS camera, and a Fresnel microlens that can minimize chromatic aberration. Usually ranging in sizes from a millimeter to a few microns in diameter, microlenses, including complex ones, are produced in large volumes. Since microroughness and geometry factors directly affect performance, high-throughput metrology control of microlenses is critical for lens development, process optimization, and mass production within tolerances.



Roger Posusta of Bruker Nano Inc. discusses how white light interferometry (WLI) has the capability to encompass several lenses in a large field of view while maintaining subnanometer height resolution and micron-level lateral resolution. WLI is an ideal optical measurement technique for characterizing these types of surfaces. Bruker's industry-leading WLI solutions combine automation and on-the-fly analysis to enable comprehensive reports on lens parameters. Posusta also covers curvature analysis through the Zernike coefficient, defect monitoring via slope-based detection, and deviation from ideal aspheric shape. Finally, he illustrates the calculation of the conic parameter using automatic lens shape detection, which enables the high-throughput and advanced characterization of the most complex microlenses.

Who should attend:

R&D scientists, engineers, manufacturers, and educators who utilize microlenses. Those in industries such as aerospace, automotive, communications, energy, medicine, nanotechnology, ophthalmology, and semiconductors who are interested in white light interferometry. Anyone who works with technologies such as coatings, sensors, displays, imaging, microscopy, nanophotonics, and test and measurement.

About the presenter:

Roger Posusta is a senior marketing application specialist at Bruker Nano Inc. He has over 35 years of experience helping industry and academia implement noncontact metrology solutions to solve their most challenging applications.

About Bruker:

Bruker's high-performance scientific instruments and high-value analytical and diagnostic solutions enable researchers and engineers to explore life and materials at nano-, micro-, and macroscales. In close cooperation with their customers, Bruker is enabling innovation, improved productivity, and customer success in the life sciences, materials, and industrial applications.

.: Mark Your Calendar

Date: Wednesday, October 5, 2022

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

Space is limited. Reserve your Webinar seat now at: <https://attendee.gotowebinar.com/register/4663594387550418702?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

- Spectral Domain Optical Coherence Tomography Spectrometers for Today and Beyond, 9/21/2022 1:00:00 PM EDT
- An Introduction to Plastics Laser Welding, 9/22/2022 10:00:00 AM EDT

Archived Webinars

- Airborne Remote Methane Quantification Using Thermal Infrared Hyperspectral Imaging
- Affordable, Low-Profile Solutions for Gas Sensing
- QCL Dual-Comb Spectroscopy Matures into the Mid-Infrared by Combining High-Time and High-Frequency Resolution

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.