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Innovation Along the Value Chain: Creating Optics for Metrology Applications

Wednesday, April 29, 2020 10:00 AM - 11:00 AM EDT

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About This Webinar

Today, process innovation is as important as product innovation to the creation of a competitive product. The entire value chain, from the definition of the specifications based on the needs of the application, to the assembly and testing of the finished optical system, has an impact on the final outcome in terms of performance, quality, and cost. This means that innovation along this value chain can positively affect the competitiveness of the product.

In this webinar, experts from SwissOptic will discuss current steps in the creation of optical systems for metrology applications. They will present innovative approaches to these steps using practical examples, such as optimizing wavefront (e.g., to Zernike residual < 3 nm) and polarization effects by performing optics and coating design in parallel and synchronized with mechanical design.

You will learn about the difference between traditional and proprietary lens manufacturing processes used by SwissOptic. These processes allow you to shorten the time required for the creation of high-end form (e.g., at $\lambda/20$) and surface quality ($R_q < 1\text{ nm}</math>), saving cost in the final system. The presenters will highlight innovative metrology and assembly technologies that can increase both yield and quality of the final optical product. Among other technologies, they will talk about customized distortion measurement on a finalized optical system and will briefly discuss different methods of optical lens positioning.$

About the presenters:

Andreas Bich is head of product development for the metrology business unit at SwissOptic AG. He has 13 years of experience in metrology, manufacturing, and design of optical components and systems. He studied applied photonics at the Aalen University in Germany.

Armin Rumpel, Ph.D., is technology expert for aspheres and freeform optics at SwissOptic AG, specializing in process innovation for precision optics. He has more than 14 years of experience in characterization and development of optical systems as well as their fabrication processes and technology. He studied physics at the TU Clausthal-Zellerfeld and the FAU Erlangen-Nürnberg.

Who should attend:

This webinar is for all system engineering, R&D, and procurement professionals who are involved in the development of products for optical metrology, machine vision, geodesy, photogrammetry, and/or other instruments that perform measurements using light. Regardless of your level of experience, the one-hour investment in this webinar will give you additional insights into the processes involved in specifying, designing, manufacturing, and testing optical systems for optical metrology.

This webinar is sponsored by SwissOptic AG, a company of the Berliner Glas Group. SwissOptic stands for globally accepted quality and the highest precision in the world of optics. The company develops and produces a broad range of coated precision-optical components, assemblies, and systems and works in partnership with its customers along the entire process chain from concept through to volume production.

It is also sponsored by Corning Advanced Optics. Corning Advanced Optics serves a variety of commercial markets with cutting-edge optical solutions. Its more than 160 years of innovation in glass science and optical physics results in a diverse set of advanced capabilities from materials to technologies to serve diverse fields including semiconductor manufacturing, microfabrication, consumer electronics, and more.

It is also sponsored by APPLIED IMAGE, Inc. For over 40 years, customers worldwide have trusted APPLIED IMAGE to deliver high-quality, precision-imaged optical components and NIST traceable calibration standards and services that are accurate and consistent. From single-part prototypes to thousands of OEM component parts, the company treats every order with the same priority and care.



Mark Your Calendar

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Mac® -based attendees

Required: Mac OS® X 10.6 or newer

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Required: iPhone®, iPad®, Android™ phone or tablet, Windows 8 or Windows Phone 8

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