

PHOTONICS spectra

WEBINARS

Join us for a **FREE Webinar**

Lightguides for Mixed Reality Glasses: Design Techniques and Challenges

Wednesday, October 21, 2020 10:00 AM - 11:00 AM EDT

[Register Now](#)

Sponsored by



.: About This Webinar

The use of lightguides with diffraction gratings has become of great interest in the development of augmented reality and mixed reality glasses. The propagation of light through such lightguides requires simulation techniques beyond ray tracing. It must be possible to include physical-optics effects in a controllable manner to meet the needs in modeling and design. This webinar will introduce you to a suitable physical-optics modeling technology and demonstrate it in the software, VirtualLab Fusion.

The webinar will also address the challenges in the design of such lightguides with different layouts and architectures. Lightguide design for AR/MR constitutes an emerging technology. Some of the technical challenges are understood and solved. Others remain to be investigated and hurdles need to be overcome. Suitable modeling and design techniques, as well as software, are indispensable for further progress. The webinar will conclude with a Q&A.

Who should attend:

Scientists, engineers, and others whose work involves AR/MR technologies who are looking to improve their knowledge of lightguide design. Whether you are designing or developing AR/MR glasses, this webinar will provide insight into gaps in current design trends and how to overcome them.

About the presenter:

Frank Wyrowski (CEO) co-founded the company LightTrans in 1999 and the company Wyrowski Photonics in 2014. He has been professor of technical physics at the Friedrich Schiller University of Jena and head of the Applied Computational Optics Group since 1996. His work as entrepreneur, researcher, and teacher is dedicated to developing fast physical-optics techniques and software to address the increasing demand to overcome the limitations of ray optics in modern optics and photonics applications. Customers worldwide benefit from his engagement through the companies' consulting and engineering services, and the commercial optical design software, VirtualLab Fusion. Current R&D topics include applications such as lightguides for AR and VR, light shaping, microscopy, interferometry, fiber coupling, diffractive and meta lenses, DOE, HOE, freeform, microlens arrays, and physical optics theory in general.

Photos © LightTrans International UG – Jürgen Jeibmann Photographik.

This webinar is sponsored by [Bühler Leybold Optics](#). With over 150 years of experience, Bühler Leybold Optics is a leading supplier of thin-film vacuum coating technology. Their state-of-the-art solutions include: precision or ophthalmic optics applications; the metalization of headlights for the automotive industry; architectural glass for a wide range of buildings; and roll-to-roll substrates for the food industry or capacitors.



.: Mark Your Calendar

Date: Wednesday, October 21, 2020

Time: 10:00 AM - 11:00 AM EDT

Space is limited. Reserve your Webinar seat now at: <https://attendee.gotowebinar.com/register/2830112551804285454>

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

- [Focus on Recovering Signals in Optical Experiments](#), 10/22/2020 11:00:00 AM EDT
- [Dynamic Error Reduction via Galvo Compensation](#), 10/28/2020 1:00:00 PM EDT

Archived Webinars

- [Infrared Photodetectors: Theory, Practice, and Applications](#)
- [Avalanche Photodiodes – Design and Applications](#)
- [Digital Holographic Microscopy for Cytometry and Histology](#)

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 - 2020 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.