

# PHOTONICS spectra

## WEBINARS

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### Lightguides for Mixed Reality Glasses: Design Techniques and Challenges

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

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## .: 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.

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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

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

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

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