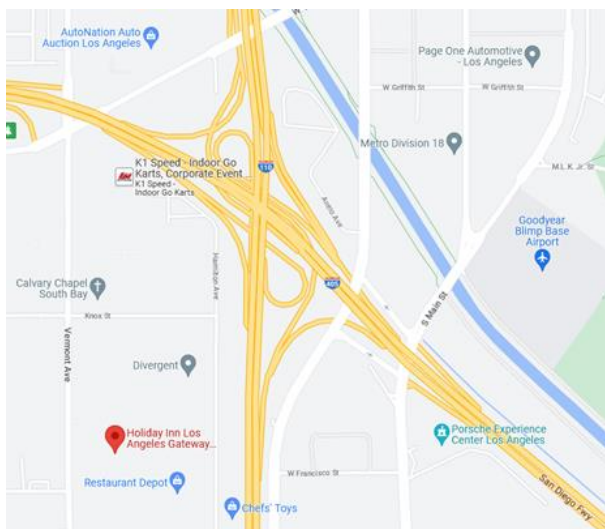


OSSC Combined In-Person & Webinar " Optical Design of Waveguides for Augmented Reality Headsets." Dr. Eric Fest, Optical Scientist, Meta Platforms

Abstract: Lightweight, stylish, wide field of view Augmented Reality (AR) headsets for the consumer electronics marketplace promise to revolutionize the way we work, play, and connect by enabling such super-human capabilities as telepresence, information-rich navigation, automatic language translation, and contextual artificial intelligence. Many well-known tech companies (including Meta Platforms, Inc. and Microsoft) are developing this technology, and within a decade these devices may be as common as cell phones. A component fundamental to their operation is the waveguide combiner, which sits directly in front of the user's eye and combines the view of the real world with the digital. This talk will describe the basic optics of waveguides, their different types, the process and software tools used in their design, and the challenges inherent in their design and fabrication.



About our Speaker: Dr. Eric Fest is an Optical Scientist at Meta Platforms, Inc. in Redmond, WA, an Adjunct Associate Professor of Optics at the University of Arizona, and a former member of the OSSC. He is the author of the SPIE best-selling book *Stray Light Analysis and Control*, and created and taught (with Prof. Jim Schwiegerling) at the University of Arizona the world's first graduate level course focused solely on the design of Augmented Reality waveguides. His previous employers include Raytheon and Synopsys, Inc. He has a PhD in Optics from The University of Arizona.



OSSC Combined In-person and Online Event April 10, 2024

Registration Required

Reception: 6:00pm **Dinner:** 7:00pm **Presentation:** 8:00pm
Dinner - Members: \$35 **Non-Members:** \$40 **Students:** \$10
Late Fees of \$10, after 11:59 pm April 6
Venue: Holiday Inn Los Angeles Gateway-Torrance
19800 S. Vermont Ave, Torrance, CA, 90502

No fee for in-person without dinner or for online attendees
Registration Required for Online too !!
Online Registration until Tue. April 9, 2024
[Register Here for In-Person and Online Attendance](#)

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