



WEBINARS

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Virtual Reality Optics: Present and Future

Thursday, January 14, 2021 10:00 AM - 11:00 AM EST

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.: About This Webinar

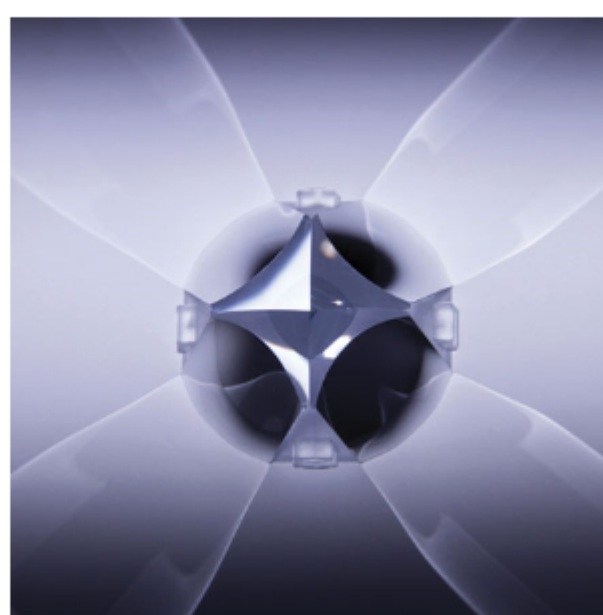
Virtual Reality (VR) is envisaged as one of the next platforms for human computer interaction, with a vast range of potential applications. The features required for an ideal VR headset imply a big challenge to the design of the optics: ultrawide field of view, high resolution, small volume, energy efficiency, and low stray-light are desirable goals to accomplish. This webinar will cover from the description of the present solutions in the market (based on aspheric lenses and polarization "pancake" optics) to the most advanced proposals (freeform, foveated, multichannel, diffractive, holographic), including an introduction to additional challenges to be tackled in next-generation designs.

Who should attend:

R&D scientists, engineers, QC professionals, and others whose work involves the development, sale, or maintenance of optics for virtual reality or related applications. All those looking to improve their knowledge of the history of VR optics and where they may be headed for future applications and design improvements.

About the presenter:

Pablo Benitez, Ph.D., is professor at the Technical University of Madrid, Spain, where he leads the Optical Engineering group. In the last 20 years he has pioneered research in design of aspheric and freeform optics for nonimaging and imaging applications. Specifically, he is co-inventor of the SMS optical design method. More recently, Benitez co-founded and is CTO of Limbak, which is an IP company developing advanced freeform optics for the forthcoming VR and MR glasses. Benitez is the 2020 recipient of the SPIE A.E. Conrady Award in Optical Engineering.



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