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Short Course Title

New illumination technologies for projection applications

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Abstract

An important conversion activity has been completed in the field of illumination system for projectors in the recent years, with an almost complete shift from arc-lamp based illumination systems in the past, to solid state illumination technologies in the present. The range of current solid state illumination technologies is very large and varies from LED illumination for lower light output up to full RGB laser illumination for higher light output, including also other solutions where phosphors or other wavelength conversion means are used to create all the necessary colors in the illumination system. Especially with full RGB laser technologies, the specific characteristics of these light sources can enable new and more advanced illumination systems that not only provide a larger illumination power, but also allow to tailor the illumination of the projector's imaging devices to the image content they have to display, and hence realize true and economic HDR images via projection.

Speaker Biography

Bart Maximus has graduated as an engineer in electronics at the University of Ghent, Belgium, in 1991. In 1996, he achieved his PhD at the same university, on the topic of LCDs. In the same year, he started working for the company Barco as R&D manager leading project groups involved in the development of LCD, LCoS, and DLP® projectors for multiple applications.

In 2013, he became Director of Technology and Innovation in the Projection Division of Barco. The focus of his work is mainly on finding and assessing new technologies to improve the image quality of projected images for these different applications, ranging from simulation over business projection to digital cinema. He is member of the Society for Information Display.