

The Past, Present and Future of Freeform Optics

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The emerging, transformative area of freeform optics could allow for a wider range of lens and mirror shapes than strictly spherical, and for more targeted applications. Although the production of freeform surfaces became possible just a few years ago, freeform optical surfaces are emerging as a path to truly three-dimensional optical designs. A broad range of applications for freeform optics has been identified, including mobile displays, LED lighting, remote sensing devices and astronomical instrumentation. In this one-hour webinar, Professor Jannick Rolland will provide a short historical context to this emergence and discuss the challenges as well as the rapidly emerging knowledge that spans from the mathematics of freeform surfaces to the implementation of freeform optical systems.

About Our Speaker

Professor Jannick P. Rolland
The Institute of Optics, University of Rochester



Professor Jannick Rolland's research interest lies in freeform optics and optical instrumentation innovation across a broad range of applications, with a key focus on metrology, 3-D biomedical imaging, and head-worn displays for augmented reality. She is the Brian J. Thompson Professor of Optical Engineering at the Institute of Optics at the University of Rochester, where she directs the NSF/IUCRC Center for Freeform Optics (CeFO), the R.E. Hopkins Center for Optical Design and Engineering, and the ODALab (www.odalab-spectrum.org). Professor Rolland holds appointments in the Department of Biomedical Engineering and in the Center for Visual Science. She earned an Optical Engineering Diploma from the Institut D'Optique, France, and a PhD in Optical Science from the College of Optical Sciences at the University of Arizona. Professor Rolland served on the editorial board of the Journal Presence (MIT Press) and as associate editor of Optical Engineering. Since 2008, she has co-chaired the OSA Topical Meeting on Optical Fabrication and Testing. Professor Rolland is a NYSTAR Fellow and a Fellow of OSA and SPIE and served as Director at Large on the OSA Board of Directors from 2010-2013.

Title: *The Past, Present and Future of Freeform Optics*

Date: Wednesday, November 13, 2013

Time: 1:00 PM - 2:00 PM EST

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