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Precision Interferometric Measurements in Uncontrolled Environments

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A major limitation of precision interferometry is the sensitivity to the environment. This talk discusses different techniques for reducing the effects of vibration and atmospheric turbulence on interferometric measurements enabling precision interferometric measurements in uncontrolled environments. The application of these techniques for the measurement of surface vibration, the testing of optical components, the phasing of segmented optical components, and the measurement of deformations of diffuse structures will be described.

• Biography

James C. Wyant is Professor of Optical Sciences and Dean of the College of Optical Sciences at the University of Arizona. He is a member of the National Academy of Engineering, and a Fellow of the Optical Society of America (OSA), the International Optical Engineering Society (SPIE), and the Optical Society of India. Wyant was the 1986 president of SPIE and he was recently elected to the OSA presidential chain (Vice President 2008, President-Elect 2009, and President - 2010). Wyant is Editor-in-Chief of the OSA journal Applied Optics.

Wyant was a co-founder of the WYKO Corporation, 4D Technology, and DMetrix and the president of WYKO from 1984 to 1997. He has received several awards including the OSA Joseph Fraunhofer Award, 1992; SPIE Gold Medal, 2003; and the SPIE Technology Achievement Award, 1988. He has been the major advisor of 31 graduated Ph.D. students and 25 MS students.