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Optical Society of America
Ann Arbor Local Section

PUBLIC MEETING NOTICE

Tuesday, 29 October 2013, 7:00-9:00 pm
Location: U-M EECS, Room 1311

Electrical Engineering & Computer Science Building
North Campus, University of Michigan
Ann Arbor, MI 48109

Wavefront Aberrations, Adaptive Optics and a Model to Predict Visual Performance

Dr. Vasudevan Lakshminarayanan
University of Michigan, Physics Dept., Visiting Scholar
University of Waterloo, Professor, cross-appointed to Optometry & Vision Science, Physics and Electrical & Computer Engineering Departments - Waterloo, Ontario, Canada

Abstract: The techniques of adaptive optics has revolutionized astronomy. Another major application of adaptive optics is in vision science. In this talk, Dr. Vasudevan Lakshminarayanan will introduce the basic principles of adaptive optics and wavefront aberrations and then talk about their applications in vision science. More specifically he will describe a computational model that will predict human vision performance (as measured by visual acuity) based on wavefront aberration measurements.

Bio-sketch: Dr. Vasudevan Lakshminarayanan is currently a visiting professor at the University of Michigan on sabbatical from the University of Waterloo, where he is a professor of vision science, physics and electrical and computer engineering. He is a fellow of the American Physical Society, AAAS, OSA, SPIE, Institute of Physics (UK), etc. He has worked in a number of areas ranging from quantum physics and spectroscopy, to bioengineering, optics, optometry and ophthalmology and cognitive science. He has published over 300 papers, chapters, etc. as well as a editor/co-author of a number of books (e.g.the 5 volume Handbook of Optics), and is the recipient of a number of awards, most recent ones being the SPIE Optics educator award (2011) and the Esther Beller Hoffman medal of OSA (2013).

Map to seminar site: Public parking is shown on the U-Mich campus map www.umich.edu/~newsinfo/umnc.html (or see AA OSA website). This year, we will NOT be meeting at Paesano's Restaurant prior to the seminar for regular talks.

Next AA OSA Meeting: Tuesday, 10 December 2013

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