

A Perspective on Future Instrumentation and Measurement

Kim Fowler, President, IEEE Instrumentation and Measurement Society

and

Dr. Shreekanth Mandayam, VP-Publications, IEEE IMS

Date: 23rd May, 2011

Venue: Cotton Building, CO350

Time: 10 am to 11 am

(The Cotton building is in the Kelburn Campus and is located at gate 6, Kelburn parade)

Abstract: The talk has three distinct sections. The first section of the talk covers the challenge of instrumentation - understanding and remembering the basic need for measurement. The second section of the talk considers the future of instrumentation by reviewing some survey results from two years ago, in which 450 respondents across industries and disciplines looked into the future and gave their thoughts. The third section of the talk summarizes some of the activities of the IEEE Instrumentation and Measurement Society that address the issues brought forward in the first two sections of the talk.

Short Biography: Kim has nearly 30 years in the design, development, and project management of medical, military, and satellite equipment. He co-founded Stimsoft, a medical products company, and has worked for JHU/APL and Ixthos; currently he consults in technical product development and engineering processes and is considering starting an environmental monitoring company.

Kim is the President of the IEEE Instrumentation & Measurement Society for 2010 and 2011. He is an adjunct professor for the Johns Hopkins University Engineering Professional Program and lectures internationally on systems engineering and developing real-time embedded. Kim has written 7 textbooks, published over 50 articles in engineering journals and proceedings, and has 18 patents - granted, pending, or disclosed.

Shreekanth Mandayam is Professor and Chair of Electrical & Computer Engineering at Rowan University in Glassboro, NJ, USA. He directs the Imaging and Virtual Reality Laboratory in the South Jersey Technology Park at Rowan University. Dr. Mandayam has served as the VP-Publications (2011-present), VP-Finance (2009-2010) and Chair of the AdHoc Committee on Education (2008-2009) for the IEEE Instrumentation & Measurement Society (IMS). He presently serves as the General Chair of the IEEE Sensors Applications Symposium (www.sensorapps.org). From 2004-2008, Dr. Mandayam served as the Student Activities Chair for IEEE Region-2 (Eastern United States). Further information about Dr. Mandayam is available at <http://users.rowan.edu/~shreek/>

Dr. Mandayam's presentation will focus on recent initiatives of the IMS to expand opportunities for members to enhance their technical knowledge, share best-practices and promote the growth of the instrumentation and measurement community. New fellowships and awards for education have been established, in addition to design competitions, travel grants and best paper awards to students for attending IMS sponsored conferences. The educational video tutorial program seeks to create a portal for IMS members and students to exchange information in the field. The presentation will include a discussion on the flagship conferences of the Society and its key publications, the IEEE Transactions on Instrumentation & Measurement and the Instrumentation & Measurement Magazine.