

## Seminar on

# 4G/Multiband Ground Antennas for Handheld Devices

by

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### Abstract

Promising 4G/multiband antennas using system ground plane in the handheld device as a main radiator will be presented. The ground antenna concept as an efficient radiator for handheld devices will be addressed. With a size of less than 8 x 10 mm<sup>2</sup>, the ground antenna can cover LTE/WWAN operation. Further, owing to its small size and planar structure, the ground antenna is especially suitable for slim, flexible handheld devices. Promising multiband ground antenna structures and their possible applications in MIMO or dual talk (dual WWAN) operation will be introduced. Future trends for the intelligent handheld device antennas including the tunable and reconfigurable antennas that can be adaptive to environmental changes or tunable to cover different bands or switched to have multi-beams will be discussed.

### Biography

**Kin-Lu Wong** is Sun Yat-sen Chair Professor of National Sun Yat-sen University, Kaohsiung, Taiwan. He has published more than 500 refereed journal papers and 250 conference articles. He holds over 200 patents and is the author of three books including Compact and Broadband Microstrip Antennas (Wiley, 2002) and Planar Antennas for Wireless Communications (Wiley, 2003). Dr. Wong's published works have been cited over 13,000 times in Google Scholar. Dr. Wong is an IEEE Fellow and received many awards including NSC (National Science Council) Distinguished Researcher in 2005, top 50 NSC scientific achievements in past 50 years (1959~2009) in Taiwan, and the Academic Award from Ministry of Education, Taiwan, in 2012. He was selected as top 100 honor of Taiwan by Global Views Monthly in August 2010 for his contribution in mobile communication antenna researches. Dr. Wong was awarded the 2008 APMC Prize. His graduate students were the winners of Best Student Paper Award in 2008 APMC, 2009 ISAP, and 2010 ISAP, and also won the first prize of 2007 and 2009 Taiwan National Mobile Handset Antenna Design Competition. Dr. Wong was General Chair of 2012 APMC and will also serve as General Chair of 2014 ISAP to be held in Kaohsiung, Taiwan.

**Date** : 31 Jan., 2013 (Thursday)  
**Time** : 05:00pm – 06:00pm  
**Venue** : G6302, 6/F, Green Zone, Academic 1,  
City University of Hong Kong

\*\*\* ALL ARE WELCOME \*\*\*

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