

WeAP-II	Invited Talk of AP Track
Time	13:20 to 14:00, Wednesday, 31 October, 2007
Room	
Co-Chair	Prof. Kin-Lu Wong, National Sun Yat-Sen University, Taiwan.
	Prof. Hong-Twu Chen, ROC Military Academy, Taiwan.



Antenna Design for Wireless Communications in the Personal Computer

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Wireless communications technology has been booming. Owing to its “low cost” and “small size”, PC has become the hot center of wireless communications applications. For various promising applications, a variety of antennas are required to cover different transmitting distances (such as WPAN, WLAN, WMAN and WWAN) and/or different operating bandwidths (such as BT, UWB and WCDMA...). To integrate the many required antennas inside the limited space in the PC, it has become a challenging design task that the integrated antennas have minimum “antennas interference.” The related design considerations will be addressed in this talk. The development trends of wireless communications proceeding to Multi-Combo antenna design for PC application will also be presented.

The contents of this talk are as follows:

1. Development Trends of PCs and Antennas
 - (a) PCs Become the Hot Center for Wireless Communications Applications
 - (b) Development Trends of Applying Wireless Communications Technology to PC
 - (c) Suggestions of Multi-Combo Antennas' Placement
2. Designs and Applications of Multi-Combo Antennas
 - (a) Introduction of Current PC Antenna Designs and Patents
 - (b) Oncoming Design Trends of PC Multi-Combo Antennas
 - (c) Overview of PC Multi-Combo Antennas' Design Challenges