**Opening Talk to CUHK's Annual Faculty Research Day on
12 June 2008**

OnChing YUE
Innovation and Technology Commission
Hong Kong, China
onching@itc.gov.hk

TALK ABSTRACT

Established in 2000, the Innovation and Technology Commission, in collaboration with other government departments, the industrial and commercial sectors, tertiary institutes and industry support organisations, strives to build a solid foundation for innovation and technology development. The Commission has been working to support applied research and development, foster technology ventures, provide funding schemes and technological infrastructure, and develop human capital. Prof OnChing Yue is the Science Advisor of the Commission and he will give an account of the measures provided by the Commission to support applied R&D.

BIOGRAPHY

Prof. OnChing Yue is the Science Advisor in the HKSAR Innovation and Technology Commission, providing assistance and advice to the Commissioner on technology development under the government's new strategic framework for innovation and technology.

Prof. Yue was born in Macao, grew up in Hong Kong and immigrated with his parents to the United States in 1963. He joined the Radio Research Lab at Bell Labs in 1977 after receiving his Ph.D. in Electrical and Computer Engineering from the University of California at San Diego. After spending 26 years at Bell Labs, he became a visiting professor in the Information Engineering Department at the Chinese University of Hong Kong in 2003. In September 2005, Prof. Yue took leave from CUHK and joined the Innovation and Technology Commission.

Before leaving Bell Labs, Dr. Yue was a department director in the Advanced Technologies division. His department was responsible for developing new algorithms and protocols for improving and predicting the performance and reliability of wireless networks.

Prof. Yue has over 20 journal publications and over 30 conference papers. Among his 18 patents, the one on mechanisms for guaranteeing Quality of Service (QoS) in Internet Protocol (IP) networks was named as one of 2003's top five patented new technologies by *MIT Technology Review* in 2004. His research interests include wireless access networks (3G, wireless LANs and PANs), security (DDoS, priority access and sensor networks), and application QoS (VoIP, TCP, streaming video and games).