Seminar on

Multi-Beam Array Networks and Multi-Wideband Multiplexing Feeds

by

Dr Kwok Kee Chan

Chan Technologies Inc.

Date : **17 March 2017 (Friday)**
Time : **10:30 am – 12:00 noon**
Venue : **Room 15-202, meeting room of State Key Laboratory of Millimeter Waves, 15/F, Lau Ming Wai Academic Building, City University of Hong Kong**

Abstract

Antenna networks generating simultaneous multiple orthogonal or non-orthogonal beams will be presented. These networks include binary and non-binary Butler matrices, various forms of Blass matrices and planar lenses. Their synthesis, analysis and applications are discussed as well as their advantages and disadvantages. Also will be presented is the realization and predicted performance of multi-wideband multiplexing feed systems for satellite communications.

Biography

Kwok Kee Chan received his B.Sc. (First Class Honors) in Electrical Engineering from Imperial College, London in 1970, and his M.Eng and PhD degrees from McGill University, Montreal in 1971 and 1973 respectively. From 1973 to 1974, he was a Post-Doctoral Fellow at the Canadian Center for Remote Sensing in Ottawa developing a C-band scatterometer. From 1974-1982, he worked at Spar Aerospace (now MDA) in Montreal developing, designing and testing antenna systems for a number of international and domestic communication satellites as well as Intelsat ground stations around the world. In 1982 Dr. Chan started Chan Technologies Inc., a consulting company now based in Brampton, Ontario. Since then, he has performed consulting and development work in antenna and microwave systems for thirty-one different organizations and agencies in North America, Europe and Asia. In 2013, he became a Fellow of the IEEE. His present research interests include developing ultra broadband antennas with wide scan capability, specialty antennas such as multi-function Radar phased arrays, low profile SOTM arrays, multi-wide band satellite communication feed systems, high efficiency monopulse feeds and electromagnetic modeling of jet engine scattering of radar signatures.

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

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