CSULB Systems Council Chapter presents

IEEE Distinguished Lecture Series on

Millimeter Wave Antennas

Dr. T.K. Wu

Date: Tuesday, March 18, 2014

Time: 11:00 a.m. to 11:50 a.m.

Location: Niggli Conference Center (ECS 312)

Abstract:

Millimeter wave (MMW) antennas have the advantages of low volume, mass, and cost relative to their counter parts at microwave frequencies. In addition, MMW propagation has higher attenuation, i.e. low probability of interception (LPI). So it has found many applications in Inter Satellite Communications, Home-in Radars, and high data rate / secure mobile communication systems. Recently, MMW frequencies have become increasingly popular for wireless/personal communication systems. This presentation will focus on MMW antennas, such as (1) single element antenna (circularly polarized patch, horn, and ring slot antennas), (2) high gain reflector antennas and quasi-optical grids for multiband applications, (3) multi-beam lens antennas, and (4) array antennas.

About the Speaker:

Dr. T. K. Wu receives his M.S. and Ph.D. degree from University of Mississippi in 1973 and 1976 respectively. He has dedicated his career in antenna design and MMW technology during his career, including engineering positions in Hughes Aircraft Company, Jet Propulsion Lab, and E-Systems. He retired from Northrop Grumman Corporation (formally TRW) as a Senior Antenna Engineer for SATCOM and Remote Sensing in 2010. He is currently consulting in quasi-optical grids, phase-arrays, antennas for Satcom, Radar, and remote sensing applications. He is the recipient of 27 U.S. patents, and the Editor for the book entitled: “Frequency Selective Surfaces and Grid Array” published by Wiley, as well as many technical papers.

For more information, please contact IEEE chapter’s secretary, Dr. Shadnaz Asgari at Shadnaz.Asgari@csulb.edu.