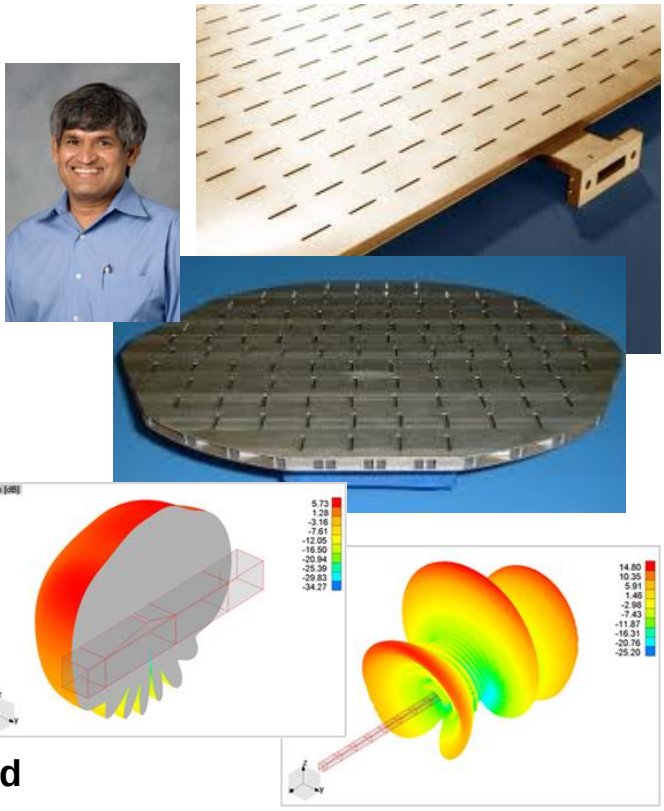
MICROWAVE THEORY AND TECHNIQUES SOCIETY,
LIFE MEMBER AFFINITY GROUP, EDCAS, AND
AEROSPACE ENGINEERING
BUENA VENTURA SECTION

You are invited



Date/ Time: **Wed Feb 20th, 2013**
6:30 PM Pizza & networking
7:00 PM Presentation

Location: **Ciao Wireless**
4000 via Pescador
Camarillo, CA 93012

Speaker: **Sembiam R. Rengarajan, Fellow, IEEE CSUN**
srengarajan@csun.edu

Title: **Waveguide-Fed Slot Arrays: Design, Analysis, and Applications**

Abstract:
Waveguide-fed slot array technology has matured, primarily because of advances in electromagnetic modeling in the analysis, design, and optimization of such antennas. We can now design and build such arrays to meet the demanding specifications of many radar, remote sensing, and communication applications, without any hardware iteration. In this talk we will review Elliott's design procedure and analysis employing the method-of-moments solution to the pertinent integral equations of the entire planar slot array. Examples from recent applications of slot arrays in practical radar and remote sensing systems will be presented. Recent advances in design techniques, including global optimization using full wave moment method analysis techniques for improving return loss and pattern performance over a given bandwidth will be presented.

Sembiam R. Rengarajan received his Ph.D. in EE from the Univ. of New Brunswick, Canada in 1980. Since, he has been with the department of Electrical and Computer Engineering, CSUN, presently serving as a Professor. He has held visiting professorships at UCLA, Chalmers University of Technology, Sweden, Universidade de Santiago de Compostela, Spain, the University of Pretoria, South Africa and the Technical University of Denmark and is an Adjunct Professor at Zhejiang University. He has been a consultant to government and industry in the US and abroad and has published more than 200 journal articles and papers in applications of electromagnetics to antennas, scattering, and microwave components. Dr. Rengarajan is a Fellow of IEEE and of the Electromagnetics Academ, has served as an Assoc Editor of the IEEE Transactions on Antennas and Propagation (APS) (2000-03), and as the Chair of the Education Committee of IEEE APS. He received the Preeminent Scholarly Publication Award from CSUN in '05, CSUN Research Fellow Award in '10, a Distinguished Engineering Educator of the Year Award from the Engineers' Council of California in '95, and 20 awards from NASA for his innovative research and technical contributions. He is the Chair of USNC-URSI Commission B (2012-14) and is a Distinguished Lecturer for IEEE APS (2011-13).

Directions to Ciao Wireless:

4000 Via Pescador
Camarillo Ca. Phone: 805-389-3224

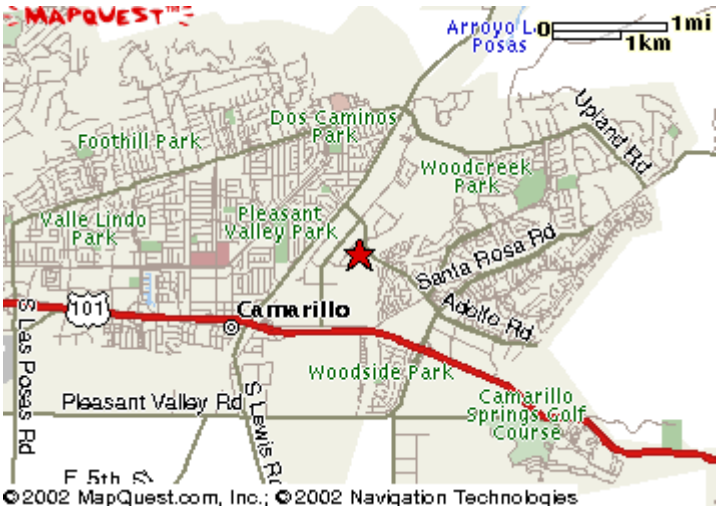
From LA and South

Take the I-405N.

Take the US-101/VENTURA FWY North

Exit FLYNN RD and go straight.

Turn RIGHT onto VIA PESCADOR. (2nd Road on RIGHT)



From Santa Barbara and North:

Take the US-101S/VENTURA FWY towards LOS ANGELES.

Take the DAWSON DRIVE exit and turn RIGHT from the ramp.

Turn RIGHT at the light onto DAWSON DRIVE.

Turn LEFT at the light onto FLYNN ROAD.
Turn RIGHT onto VIA PESCADOR. (2nd Road on RIGHT)