

ECE 793A - GRADUATE SEMINAR
(Required for Communication and Control Group Graduate Students)

DATE: TUESDAY, NOVEMBER 21, 2006

TIME: 4:00PM – 5:00PM

PLACE: 132 MARSTON

“Ultra-High Speed Communication Systems Using Millimeter Wave Frequency”

Dev V. Gupta, Ph.D.

Founder, Chairman and CEO of Newlans
Professor, Department of Electrical & Computer Engineering
University of Massachusetts, Amherst

Abstract:

In this talk, Dr. Gupta will describe his work to develop Analog Signal Processing (ASP) tools, antennae technology and special modulation and coding techniques to implement first generation, line of sight, modem technology suitable for this band. He will also discuss his plans to develop diversity technology which solves the problem of reliability in moderate sized serving areas like homes and corporate buildings. He will conclude by describing his current research to solve non-line-of-sight problems for implementing next generation modems for millimeter wave bands.

Bio:

Dr. Dev Gupta is Founder, Chairman and CEO of Newlans and Professor in the Department of Electrical and Computer Engineering, University of Massachusetts Amherst. Newlans supplies components to implement millimeter wave based Local Area Networks and Digital Television Distribution networks in enterprise and residential applications. Prior to Newlans, Dr. Gupta was President and CEO of Narad Networks and developed Cable TV networks based on Gigabit Ethernet networking for small and medium business. In 1998, Dr. Gupta founded Maxcomm Technologies which developed voice and data integration products that could be provisioned over Telco DSL infrastructure. Cisco Systems acquired Maxcomm in 1999. In 1995 he founded Dagaz Technologies. Dagaz developed DSL Multiplexing equipment for the central office as well as associated premise equipment. Dagaz was acquired by Cisco Systems in 1997 and Dr. Gupta joined Cisco as VP and Chief Architect/Chief Technologist of Cisco's access business. Prior to Dagaz, Dr. Gupta was a senior executive at Integrated Network Corporation. Dr. Gupta began his career at Bell Laboratories where he developed various Digital Transmission and Switching products. At the Consumer Product Laboratory of AT&T, he developed various products for residential and small business markets. Dr. Gupta has a Ph.D. from UMass Amherst, an MSEE from the University of Maine and a B.Tech. EE degree from IIT Kanpur in India. He was named a Tech. Pioneer for the years 2001 and 2002 by the World Economic Forum.

