



HAWAII CENTER FOR ADVANCED
COMMUNICATIONS

Presents:

COMPUTATIONAL ELECTROMAGNETICS

By: Professor Tapan K. Sarkar, Ph.D.

Friday, February 23, 2007, 10:00 – 11:00 a.m.
Holmes Hall Room 388



Professor Tapan K. Sarkar

(S'69–M'76–SM'81–F'92)

Received the B.Tech. degree from the Indian Institute of Technology, Kharagpur, in 1969, the M.Sc.E. degree from the University of New Brunswick, Fredericton, NB, Canada, in 1971, and the M.S. and Ph.D. degrees from Syracuse University, Syracuse, NY, in 1975.

From 1975 to 1976, he was with the TACO Division of the General Instruments Corporation. He was with the Rochester Institute of Technology, Rochester, NY, from 1976 to 1985. He was a Research Fellow at the Gordon McKay Laboratory, Harvard University, Cambridge, MA, from 1977 to 1978. He is currently a Professor with the Department of Electrical and Computer Engineering, Syracuse University. His current research interests deal with numerical solutions of operator equations arising in electromagnetics and signal processing with application to system design. He has authored or coauthored more than 280 journal articles and numerous conference papers and 32 chapters in books and 15 books, including his most recent ones, *Iterative and Self Adaptive Finite-Elements in Electromagnetic Modeling* (Boston, MA: Artech House, 1998), *Wavelet Applications in Electromagnetics and Signal Processing* (Boston, MA: Artech House, 2002), and *Smart Antennas* (New York: Wiley, 2003). He is a Registered Professional Engineer in the State of New York.

Dr. Sarkar received a "Best Solution" award in May 1977 from the Rome Air Development Center (RADC) Spectral Estimation Workshop. He received the Best Paper Award of the IEEE TRANSACTIONS ON ELECTROMAGNETIC COMPATIBILITY in 1979 and in the 1997 National Radar Conference. He received the College of Engineering Research Award in 1996 and the Chancellor's Citation for Excellence in Research in 1998 at Syracuse University. He was an Associate Editor for feature articles of the *IEEE Antennas and Propagation Society Newsletter* (1986–1988). He was the Chairman of the Inter-commission Working Group of International URSI on Time Domain Metrology (1990–1996). He was a distinguished lecturer for the Antennas and Propagation Society from 2000 to 2003. He is currently a member of the IEEE Electromagnetics Award Board and an Associate Editor for the IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION. He is the Vice President of the Applied Computational Electromagnetics Society (ACES) and the Technical Chair for the combined IEEE 2005 Wireless Conference along with ACES to be held in Hawaii. He is on the editorial board of the *Journal of Electromagnetic Waves and applications* and *Microwave and Optical Technology Letters*. He is a member of Sigma Xi and International Union of Radio Science Commissions A and B. He received Docteur Honoris Causa both from Universite Blaise Pascal, Clermont Ferrand, France, in 1998 and from the Politechnic University of Madrid, Madrid, Spain, in 2004. He received the medal of the friend of the city of Clermont Ferrand in 2000.