The Evolving Internet Infrastructure
Stephen Wolff, Cisco Systems

Demand is rising for Internet services that cannot be supported by a congested, single-service, best-effort Internet. There are two obvious solutions — differentiated use of the available end-to-end bandwidth, which might be termed “The Rise and Fall of the Stupid Network”, and the brute force approach, or “Bandwidth Will Be Free”. This talk will discuss both, without making a clear prediction for either.

Stephen Wolff studied at Swarthmore College, Princeton University, and Imperial College. He taught Electrical Engineering in The Johns Hopkins University for ten years and subsequently spent fifteen years leading a computing and network-related research group at the U.S. Army Research Laboratory. In 1983 he took a sabbatical half-year as a Program Director in the Mathematics Division of the U.S. Army Research Office. From 1986 to 1995 he was Director of the Division of Networking and Communications Research and Infrastructure at the U.S. National Science Foundation (NSF), responsible for the NSFNET and NSF’s basic research programs in networking and communications. He joined Cisco Systems in 1995, where he currently directs the Advanced Internet Initiatives Division with responsibility for Cisco’s participation in Internet2, the U.S. government’s Next Generation Internet and IT2 programs, and similar and related projects both domestically and abroad. Dr. Wolff holds two patents and is the author of several dozen technical reports and articles; he a member of AAAS and ACM, a Pioneer Member of the Internet Society, and a Life Member of IEEE.

Multi-Service Networks and Their Evolution
Dr. Dev Vrat Gupta, MaxComm

Dr. Gupta is currently President and CEO of MaxComm Technologies, Inc., a business he founded in July 1998. MaxComm is a venture start-up primarily funded by Cisco Systems and Sequoia Ventures and is developing residential and Telephone Central Office products involving voice and data integration over broadband access media like x-DSL and HFC.

Dr. Gupta is also currently on leave from Cisco Systems where his last position was Vice President of Architecture and Technology Planning in the Service Provider Line Of Business (SPLOB). In this role he acted as Chief Architect and Chief Technologist for Cisco’s network access business unit.

Dr. Gupta holds a B. Tech. (EE) (Hons.) from the Indian Institute of Technology, Kanpur, UP, India, an MSEE from the University of Maine at Orono and a Ph.D (EE) from the University of Massachusetts, Amherst. He is the author of numerous technical papers and holds numerous US Patents.