

# Keynote talk



## **Enabling Technologies for Broadband Wireless and Optical/Wireless Integration**

Stephen B. Weinstein

Communication Theory and Technology Consulting LLC, USA

*Monday, July 2, 10:00-11:00, Plenary Hall*

Stephen B. Weinstein, an IEEE Life Fellow, received his SB, MS, and PhD degrees in Electrical Engineering from M.I.T., the University of Michigan, and the University of California at Berkeley. His career was mainly with Bell Laboratories, Bellcore (now Telcordia), and NEC Research Labs America. Now an independent consultant (Communication Theory & Technology Consulting LLC), he works for major law firms on technical aspects of patent litigation, and for industrial clients.

Dr. Weinstein's expertise includes both physical level and networking technologies. He invented the echo cancellation technique used in voiceband modems and pioneered the application of the Fast Fourier Transform to OFDM/DMT modulation, a technique widely used in

ADSL, IEEE 802.11 "WiFi", IEEE 802.16 "WiMAX", and coming generations of cellular mobile systems. He wrote the book "Getting the Picture: A Guide to CATV and the New Electronic Media" (IEEE Press, 1986), is co-author of the textbook "Data Communication Principles" (Plenum, 1992), and is the author of "The Multimedia Internet" (Springer, 2005) that provides a light technical introduction to the communication networks and technologies, Internet protocols and services, and media compression technologies contributing to the quality of audio/video media on the Internet.

He served as President (1996-97) of the IEEE Communications Society and Division III Director (2002-2003) on the IEEE Board. He has held many other positions in IEEE including Chair of the IEEE Press Board, member of the IEEE Nominations and Elections Committee and member of the IEEE Fellow Committee. He is currently Chair of the IEEE Honorary Member Award Committee and is the IEEE Communication Society's Chief Information Officer. His publications and conferences activities include co-founding the IEEE/ACM Transactions on Networking, serving as co-program chair of three IEEE CAS/COM intersociety conferences, and serving as Program Chair for the 2004 IEEE Wireless Communication and Networking Conference (WCNC). He received the IEEE Centennial Medal in 1984 and the IEEE Second Millennium Medal in 2000. He is the recipient of the Eduard Rhein Foundation's (Germany) 2006 Basic Research Award for his pioneering work in OFDM.

