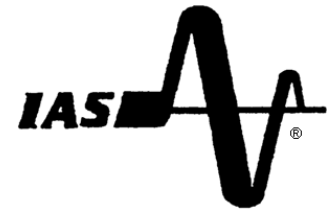




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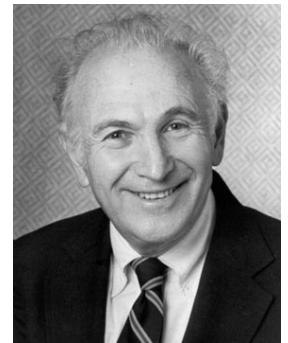
**You are invited to a joint meeting with the PES and IAS IEEE NY Chapters on:**

**Learning from the Past: From Wired City to Wireless Society  
Professor Mischa Schwartz**

**Professor Emeritus, Electrical Engineering, Columbia University, New York  
Tuesday, April 26, 2011, 5:00PM to 7:00PM**

**Presentation:** We have come a long way from the days when world's first mobile telephone call was made by an unnamed automobile driver in St. Louis, Miss. It was 1946. Years later, in 1973 Frank Cooper, a Motorola engineer demonstrated the precursor of the mobile telephone of today when, standing at the curb of the Avenue of the Americas, New York he called, untethered, his rivals at AT&T. Thus, began the evolution of modern cellular voice communications. On the data side it was Dr. Robert Mecalfe at Xerox PARC labs in California who developed the basic local area network known today as the Ethernet that was really based on the ideas of Aloha network conceived at University of Hawaii to connect wirelessly its various campuses situated on different islands. The two modes of communication, data and voice, continued to be developed separately. Then sometime in the mid-nineteen nineties with the spectacular work in digital signal processing the two streams started to merge in a manner perhaps not even perceived by the lay users and finally led to the development of SMS, Twitter, Facebook , iPhone and iPad etc. Prof. Mischa Schwartz has not only seen all these developments, he taught many of the engineers who later became pioneers of communications industry. In this presentation Dr. Schwartz will trace the paths of development as he experienced them himself. We applaud him for his dedication to engineering and we look forward to learn from him. – Program notes from Amitava Dutta-Roy, LMAG chair.

**ABSTRACT:** Three periods of time involving multi-media communications and their impact on society are discussed and compared in this talk. These periods are the 1970s, with focus on the then newly-developing cable TV and the resultant concept of the "Wired City"; the mid-1990s, with the focus moving to the then novel idea of multi-media wireless communications; and, finally, the present, with the focus on mobile smart phones, social networking applications and 4<sup>th</sup>- generation wireless systems. We raise and discuss the question, are we already in the throes of a Wireless Society, reminiscent of the Wired City concept of 35 years ago? Are the tradeoffs, pro and con, similar to those debated during the heyday of the Wired City?



**THE SPEAKER:** Dr. Mischa Schwartz is the Charles Batchelor Professor Emeritus of Electrical Engineering, Columbia University, where he was the founding director (1985) of the NSF-sponsored Center for Telecommunications Research (CTR). He is a Life Fellow of the IEEE; a member of the National Academy of Engineering, and a Fellow of the AAAS. He is a Past President of the IEEE Communications Society and a former Director of the IEEE. His publications include 10 books and over 180 papers in the field of telecommunications. Among his awards are the 1984 IEEE Education Medal, the Cooper Union Gano Dunn Medal, IEEE Edwin Armstrong Award for contributions to communication technology, NYC Mayor's Award for excellence in technology, Eta Kappa Nu Eminent Member award, the 2003 Japanese Okawa Prize, and the 2009 IEEE Educational Activities Vice-President's Award, the last two for outstanding contributions to telecommunications and electrical engineering education.

**ALL ARE INVITED – PLEASE POST**

RSVP to Arnold Wong: email preferred  
Arnold Wong <[wongar@coned.com](mailto:wongar@coned.com)> : (212) 460-4189



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**When:**  
5:00 pm — Refreshments  
5:30 pm — Program begins

**Where:**  
Con Edison  
Edison Room, 19<sup>th</sup> Floor  
4 Irving Place, NY 10003  
Nearest Subway: 14<sup>th</sup> St/Union Sq.

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