

# ECE DISTINGUISHED SPEAKER SERIES



**Lawrence E. Larson**

Brown University

Host: Professor Marvin Onabajo

**RF and Microwave  
Challenges for Future Radio  
Spectrum Access**

**Thursday, December 3**

Senate Chambers, Room 333

Curry Student Center

10:00-11:00am

**Reception to follow**

*Sponsored by the  
Department of Electrical and  
Computer Engineering*

Future wireless devices will require agile access to the spectrum, varying center frequency, bandwidth and modulation on an opportunistic basis. The recent evolution of the cellular telephone to a multi-band smart phone is one example of this trend, which will only accelerate in the coming years. This talk will present the application drivers and hardware requirements and innovations required to address these exciting new opportunities.

**Lawrence (Larry) E. Larson** received a BS in Electrical Engineering from Cornell University, Ithaca, NY, and a PhD from UCLA. From 1980 to 1996 he was at Hughes Research Laboratories in Malibu, CA, where he directed the development of high-frequency microelectronics in GaAs, InP and Si/SiGe and MEMS technologies. He joined the faculty at the University of California - San Diego, in 1996, where he held the Communications Industry Chair. He was Director of the UCSD Center for Wireless Communications from 2001-2006 and was Chair of the Department of Electrical and Computer Engineering from 2007-2011. He moved to Brown University in 2011, where he is Founding Dean of the School of Engineering. He has published over 300 papers, received over 40 US patents, co-authored three books, and is a Fellow of the IEEE.



## Northeastern

**ECE Distinguished Speaker Series Committee Members:**

Matteo Rinaldi (rinaldi@ece.neu.edu)

Marvin Onabajo (monabajo@ece.neu.edu)

Stratis Ioannidis (ioannidis@ece.neu.edu)