Presents:  
Eugene M. Izhikevich  
Brain Corporation,  
San Diego California  

Monday  
October 07, 2013  
4:00 pm  

Refreshments will be served: 3:30 – 4:00 pm

Spikes

Eugene M. Izhikevich, Ph.D.  
Co-Founder, Chairman and CEO  
Brain Corporation

Most communication in the brain is via spikes. While we understand the spike-generation mechanism of individual neurons, we fail to appreciate the spike-timing code and its role in neural computations. The speaker starts with simple models of neuronal spiking and bursting, describes small neuronal circuits that learn spike-timing code via spike-timing dependent plasticity (STDP), and finishes with biologically detailed and anatomically accurate large-scale brain models.

Locations:  Seminar is simultaneously presented

UPC:  HNB 100 - Live  
Hedco Neurosciences Building  
UPC Campus  
Map/Directions:  http://www.usc.edu/about/visit/upc/

HSC:  147 – Video Conference  
Center for the Health Professional  
HSC Campus  
Map/Directions:  http://www.usc.edu/about/visit/hsc/

Web Cast  
http://capture.usc.edu/college/Catalog/?cid=af180d48-ceff-42b9-a35c-eb199daed320

Information about all seminars can be found at  
http://bbdl.usc.edu/ENH-Schedule.php