

lunch for hungry minds

Speaker:

Iyad Obeid, PhD
*Assistant Professor, Electrical
Engineering*
Temple University

Presented by Dr. Nicholas Kefalides

Date:

Tuesday, March 9, 2010

Time:

12:00 - 1:00pm
Complimentary lunch at 11:30

Location:

Fuller Conference Room
3711 Market Street, Suite 800
Philadelphia, PA 19104

RSVP:

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Engineering the Brain Machine Interface

Brain Machine Interfaces (BMIs) are technologies that use real-time signals from the brain and nervous system to control end effectors such as cursors, prosthetic limbs, or even actual de-innervated limbs. After decades of intense research, BMI technology is now beginning to yield viable solutions for certain diseased or injured individuals. Although much work remains before BMIs will truly make the transition from laboratory to bedside, numerous successful studies in animals and humans now point the way to a promising new panoply of neural assistive medical devices.

This talk will give a comprehensive background of the BMI field including the main types of BMIs and the key technological challenges to making them functional and robust. The talk will also discuss the speaker's own research which has focused on hardware and algorithm development for wireless and portable BMI instrumentation.

