Neurotechnology Ventures

NEW!

Begins Tues Feb 6 2007

9.917 · MAS.961 · HST.588

J. Bonsen · E.S. Boyden · R.G. Ellis-Behnke

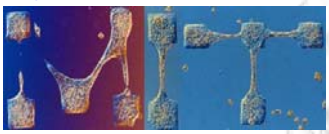
Spring 2007 ~ H-level ~ 2-0-4 Units

Tuesdays, 7-9pm (8-10pm after daylight savings begins)

~ Room 46-3002

Class sessions will be live link to University of Hong Kong

http://web.mit.edu/lms/www/
http://minds.mit.edu



Nerve Scaffolding & Regeneration

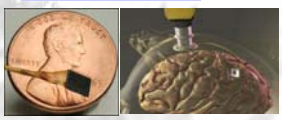
http://www.myomo.com/

Rehabilitation

***Neurotechnology Ventures* is a new seminar and project-oriented course on the challenges of envisioning, planning, and building startups to bring neuroengineering innovations to the world.**

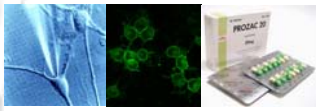
Description – Each 2-hour class begins with a **survey** of a broad topic area, and continues with a **live-case study** of a current, specific, development or commercialization effort in that area. Explorations will cover a broad array of issues ranging from the deeply technical, to the analysis of market realities.

http://cyberkinetics.com



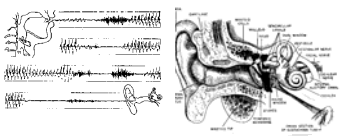
Brain-Readout Prosthetics for Paralyzed Patients

http://neuro.media.mit.edu



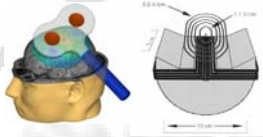
Neuropharmacology: from Epilepsy to Parkinson's to Social Anxiety to…

http://www.rle.mit.edu/cirl



Cochlear Implants

http://www.nexstim.com/

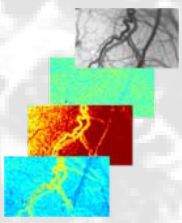


Magnetic Stimulation for Depresssion, Stroke, …

Topics Include: Neuroimaging, Neurology/Psychiatry Diagnosis, Rehabilitation, Neurosurgery, Neuropharmacology, Brain Stimulation, Prosthetics, Sensory and Motor Augmentation, Regenerative Neuromedicine, and more…

Limited Enrollment – Open to advanced students by permission of instructors. Email ***neuroven@media.mit.edu*** two paragraphs summarizing your: (1) Professional Skills & Experience, and (2) Inventive/Entrepreneurial Aspirations.

http://rabi.nmr.mgh.harvard.edu/~adunn/speckle/index.html



http://www.nmr.mgh.harvard.edu/

http://lfe.mit.edu/

Neural Imaging and Readout for Diagnostics & Behavioral Analysis

Student Project – Students will work in teams to analyze an opportunity and create a business plan executive summary to solve a major problem through neurotechnology. The project will develop throughout the term, culminating in a final presentation. We expect that some projects may go on to become successful ventures.

http://neuroven.media.mit.edu · neuroven@media.mit.edu

Background: Upper MRI image: http://www.macalester.edu/~psych/whathap/UBNRP/Imaging/images/mri.jpg
Lower MRI image: http://www.deepspace.ucsb.edu/images/microsco/MRI.GIF