



BIOMEDICAL ENGINEERING ALLIANCE & CONSORTIUM
10 Years of Discovery, Innovation & Partnerships!
www.beaconalliance.org



***Seminar #4 – Co-sponsored by BEACON and the
Connecticut Science Center***



James Beaty

REVOLUTIONIZING PROSTHETICS

**Presented by: James Beaty, Assistant Group Supervisor of the Biomedical Engineering Group
at the Johns Hopkins University Applied Physics Laboratory**

James Beaty is the Assistant Group Supervisor of the Biomedical Engineering Group at the Johns Hopkins University Applied Physics Laboratory. The group focuses on research and development in the areas of biomechanics and injury mitigation, dexterous robotics, applied neuroscience to enhance the survivability and performance of individuals engaged in critical national security operations. Dr. Beaty received his Ph.D. in Biomedical Engineering from Yale University, M.S. in Biomedical Engineering from the University of Connecticut, and B.S. in Biomedical Engineering from the Johns Hopkins University. Most recently he has focused on leading a team of expert researchers developing motor decode algorithms and implantable devices for neural control of prosthetics.

The technology for upper extremity prosthetics has advanced very little since ancient times. Until very recently, “prosthetic devices have been constructed of basic materials, such as wood and metal, and held to the body with leather attachments.” The Defense Advanced Research Projects Agency (DARPA) is funding an ambitious effort to develop advanced prosthetics for our wounded Warfighters. The Revolutionizing Prosthetics 2009 (RP2009) program is developing a highly dexterous prosthetic arm that will ultimately connect directly to the peripheral or central nervous system, thus providing the user with capabilities to do day-to-day activities.

Wednesday, September 15, 2010

5:30 – 8:30pm (Networking Reception at 5:30pm – Seminar at 6:30pm)

Connecticut Science Center, 250 Columbus Blvd, Hartford, CT 06103

Directions and parking information at: www.ctsciencecenter.org

NO CHARGE TO ATTEND, BUT RSVP REQUIRED

RSVP to: Terri Wilson – 860-547-1995 or toll free: 877-723-2266

Email: theresa.wilson@beaconalliance.org