

Mike McLoughlin is the Deputy Business Area Executive (DBAE) for the Johns Hopkins University Applied Physics Laboratory (JHU/APL) *Research and Exploratory Development Business Area*. He leads world-class teams comprised of a broad range of disciplines to develop, integrate, and transition innovative systems using advanced biomedical technologies to meet the needs of the military. In 2009, Mike assumed leadership responsibilities for Defense Advance Research Projects Agency's (DARPA) Revolutionizing Prosthetics Program (RP) at JHU/APL and is leading efforts to transition use of neutrally integrated RP technologies to human subjects.

Dr. Albert Chi is a trauma surgeon whose practice includes critical care, trauma and acute care surgery. Dr. Chi also has a background in biomedical engineering and a clinical research focused at improving the lives of individuals with traumatic injuries with an emphasis on motor control. Dr. Chi is also the medical director of the targeted muscle reinnervation program at Hopkins and performs surgery that allows patients to control advanced prosthetics. Dr. Chi is a Lieutenant Commander in the Navy Reserves in his dedication to serve our country and help care for the wounded warriors returning home and those injured in the field.

Johnny Matheny lost his left arm due to cancer just above the elbow. An eternal optimist, Johnny has taken this loss as an opportunity to volunteer for prosthetics research in order to improve the state of upper limb prosthetic devices. Johnny was the first patient to receive Targeted Muscle Reinnervation at the Johns Hopkins Hospital. The surgery was performed by Dr. Albert Chi and Dr. Rick Reddett in collaboration with the Rehabilitation Institute of Chicago, which as a result, allows natural control of the prosthetic limb as well as sensory feedback of the fingers. Johnny has been an extremely valuable participant in the research team, making frequent trips from his home in West Virginia to evaluate the Modular Prosthetic Limb system, and we're truly thankful for his role in the effort.