“Restoration of Movement Using Functional Electrical Stimulation: Overcoming Weakness, Fatigue, and Limited Motor Repertoire”

Abstract: Functional electrical stimulation (FES) involves artificial activation of muscles with surface or implanted electrodes to reinstate motor function in paralyzed individuals. Despite its promise as a rehabilitative technology, FES has not gained widespread use. This is mainly due to three main shortcomings of FES: 1) the range of motor behaviors that can be produced is limited, 2) muscle contractions evoked by FES are weak, and 3) muscle fatigues rapidly in response to FES. In this talk, I will describe various approaches that we have taken in an attempt to overcome these shortcomings and thereby expand the use of FES to restore movements in individuals with spinal cord injury or stroke.

Please join us on

Monday, December 4th, 2017
2:00-2:50 pm, Keating Bldg, Room 103
Refreshments will be available at 1:45 pm

Host: Jane Mohler, Ph.D.
jmohler@aging.arizona.edu

Persons with a disability may request a reasonable accommodation by contacting the Disability Resource Center at 621-3268 (V/TTY).