DEVELOPMENT OF A TRANSCRAINIAL MAGNETIC STIMULATION SYSTEM FOR TREATMENT OF RODENT MODELS OF MOTOR MOVEMENT DISORDERS. George Weistroffer & Mark Baron, U.S. Department of Veterans Affairs (VA). Transcranial magnetic stimulation (TMS) is being investigated as a novel treatment method for Parkinson’s disease recapitulated in rodents. A previously developed student-built TMS system with limited capability and documentation was supplied to the lab for preliminary study. The system was reverse engineered and the capabilities upgraded using standard laboratory equipment to produce magnetic pulses on the order of 1 tesla. This presentation will detail the steps taken to make this old student project functional again. Author contact: George Weistroffer, George.Weistroffer2@va.gov.