Epilepsy is a neurologic disease characterized by recurrent, unprovoked seizures with many underlying etiologies. There are approximately 3 million people with epilepsy in the USA, and 1/3 have drug resistant epilepsy (DRE). There are a range of potential treatments for DRE. Epilepsy surgery is the most effective treatment for carefully selected patients. Electrical brain stimulation (EBS) is an FDA approved therapy, and includes responsive neurostimulation, deep brain stimulation of anterior nucleus thalamus, and there are emerging adaptive EBS approaches. In this talk Dr. Worrell will review current state of the art for mapping and treating epilepsy.