The Cleveland FES Center was established through the US Department of Veteran's Affairs, Office of Rehabilitation Research & Development Service in 1991. The FES Center, a consortium in neuromodulation and neurostimulation includes the Louis Stokes Cleveland VA Medical Center, Case Western Reserve University, MetroHealth Medical Center and University Hospitals of Cleveland.

The focus of the Cleveland FES Center is to improve people's lives by supporting fundamental research in the neuromuscular sciences, developing new technologies and methods, performing clinical evaluation and feasibility testing, and promoting the widespread deployment of new technologies through professional education and commercial partnerships.
TOOLS & TECHNOLOGY

AUTONOMIC SYSTEM

BRAIN HEALTH

PAIN

MOVEMENT RESTORATION
The Neural Prosthesis Seminar Series debuted in 1988. Since its debut, this series has sponsored numerous distinguished clinicians and scientists, working in areas that include functional neuromuscular and electrical stimulation, neuromodulation, brain computer interfaces (BCI), pain mechanisms and blocking, simulation & modeling, autonomic system, traumatic brain injury (TBI), and other related areas.

The Neural Prosthesis Seminar Series is a public educational forum with prominent presenters active in all areas of research. The series brings together researchers, scientists, clinicians and students in the Northeast Ohio Research Community to encourage the exchange of scientific information on global emerging neuro-modulation and neurostimulation topics.

The Neural Prosthesis Seminar Series is sponsored by the Cleveland FES Center in partnership with our co-hosts.
Co-hosts

- MetroHealth
  Department of Physical Medicine & Rehabilitation

- University Hospitals
  Neurological Institute

- Case Western Reserve University
  Department of Neurosciences
  School of Medicine
  Department of Biomedical Engineering
  School of Engineering

- Cleveland Clinic
  Center for Neurological Restoration

- FES Institute
  FESinstitute.org
<table>
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<tr>
<th>Date</th>
<th>Speaker</th>
<th>Time</th>
<th>Location</th>
<th>Seminar Co-hosts</th>
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<td>09/30/2016</td>
<td>Helen Bronte-Stewart, MD, MSE, FAAN, FANA</td>
<td>3:00 PM</td>
<td>Biomedical Research Building, Rm 105 CWRU</td>
<td>Neurological Institute</td>
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<td>10/21/2016</td>
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<td>8:30 AM</td>
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<td>11/14/2016</td>
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<td>05/12/2017</td>
<td>Industry Round Table</td>
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<td>Cleveland FES Center</td>
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**Helen Bronte-Stewart, MD, MSE, FAAN, FANA**
Dr. Helen Bronte-Stewart, a John E. Cahill Family Professor, is the Director of the Stanford Comprehensive Movement Disorders Center. She assesses and treats movement disorders such as Parkinson’s disease, MSA, dystonia, and essential tremor. Her research focuses on the neural signature of abnormal movement in Parkinson’s disease and tremor.

**Jennifer L Collinger, PhD**
Dr. Jennifer L Collinger is a Research Biomedical Engineer, VA Pittsburgh Healthcare System, and an Assistant Professor in the Department of Physical Medicine and Rehabilitation, University of Pittsburgh. Her current research interests are related to neurorehabilitation and brain-computer interface technology for individuals with motor impairments.

**Benjamin D Greenberg, MD, PhD**
Dr. Benjamin D Greenberg, the Co-Associate Director of the VA Center for Neurorehabilitation and Neurotechnology (CANN) in, is a leading expert in anxiety, especially obsessive compulsive disorder (OCD) diagnosis, treatment and research. In addition to conventional medication treatments and behavior therapy for OCD, he has led development of the neurosurgical treatment of deep brain stimulation (DBS) for severe, intractable OCD.

**Rafael Carbunaru, PhD**
Dr. Rafael Carbunaru has been with Boston Scientific since 1999 and Vice President of Research and Development since October of 2011. He provides overall leadership, vision, inspiration and motivation to the R&D team located in Valencia, California. He also helps define and execute the pipeline of Neuromodulation products in SCS, DBS and other indications.

**Stephen B McMahon, FMedSci, FSB**
Dr. Stephen B McMahon serves as a Preclinical Consultant and Director of Centre for Neuroscience Research at King’s College London. Dr. McMahon is expertise in models of pain that are essential for preclinical development of novel leads. He is principally interested in somatosensory systems and actively engaged in work ranging from molecular biology to electrophysiology to human psychophysical studies.

**Daniel Dias, PhD**
Dr. Daniel Dias is a part of the Laboratory of Cardiovascular Physiology at the University of São Paulo, Ribeirão Preto Medical School in Brasil. The current project he is working on is entitled, Cardiovascular and Metabolic Responses of Rodents Undergoing Vagal Electrical Stimulation.

**Kristoffer Famm, PhD**
Dr. Kristoffer Famm is president of Galvani Bioelectronics, a company dedicated to the development of bioelectronic medicines. His scientific background includes extensive research towards establishing treatment potential, disease reach and technology requirements for modulating signal patterns in visceral, peripheral nerves.

**Andre Machado, MD, PhD**
Dr. Andre Machado is the Chairman of the Neurological Institute and the Charles and Christine Carroll Family Endowed Chair in Functional Neurosurgery. Dr. Machado performs deep brain stimulation (DBS) surgery for patients with Parkinson’s disease, tremor, dystonia and obsessive-compulsive disorder as well as surgical procedures for patients with trigeminal neuralgia, intractable pain syndromes and spasticity.

**Panel of Industry Experts**
Reception immediately following provides an opportunity to meet one-on-one with the selected presenters.

**Live stream lectures at www.FEScenter.org/Seminar**