

The Cleveland FES Center was established as the VA Center of Excellence in Functional Electrical Stimulation (FES) research in 1991. The Center provides innovative options for restoring neurological health and function through the development of advanced technologies and integration into clinical care. The FES Center is a consortium including the Veterans Administration, Case Western Reserve University and MetroHealth Medical System.

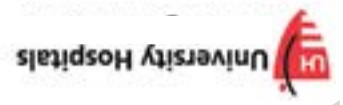
The focus of the Cleveland FES Center is to improve people's lives by supporting fundamental research in the neuromuscular sciences, developing new technologies and methods, performing clinical evaluation and feasibility testing and promoting the widespread deployment of new technologies through professional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



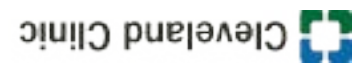
Neural Prosthesis Seminar Series

Schedule 2014-2015

Neurological Institute
 University Hospitals Neurological Institute in Cleveland - the leading institute in Northeast Ohio - offers the full range of neurological and neurosurgical services delivering innovative, integrated and individualized care to patients with diseases affecting the nervous system.



Center for Neurological Restoration
 Cleveland Clinic's Center for Neurological Restoration - focused on a single goal of advancing treatment through ongoing basic and clinical research - is nationally recognized for expertise in medical management and innovations in the surgical treatment of neurological and psychiatric disorders.



Department of Physical Medicine & Rehabilitation
 Physical Medicine and Rehabilitation offers full-service programs for head injury, spinal cord injury, stroke, amputation, burns, oncology, major multiple trauma, neurologic conditions, arthritis, orthopaedics, and geriatrics.



Department of Neurosciences
 The mission of the Neurosciences Department is to carry out world class research that advances our knowledge of how the nervous system develops and functions and how it is altered by disease, injury, genetic, and environmental factors.



As a VA Center of Excellence, clinicians, investigators, and staff work together to bring the clinical needs of veterans to the attention of the engineers and scientists pursuing new and emerging technologies in order to apply them for the purposes of reducing disability, improving daily functions, and enhancing quality of life.



Department of Biomedical Engineering
 School of Engineering
 The department of Biomedical Engineering's mission is to promote human health through education and research that bridges the gap between medicine and engineering. The faculty and students play leading roles ranging from basic science discovery to the creation, clinical evolution, and commercialization of new technologies, devices and therapies.

Neural Prosthesis Seminar

The Neural Prosthesis Seminar Series debuted in 1988. Since its debut, this Series has sponsored numerous distinguished Investigators and Researchers, working in areas that include functional neuromuscular & electrical stimulation, cortical prosthesis, neuromodulation, brain computer & machine interfaces and other related areas.

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

The Neural Prosthesis Seminar Series is hosted by the Cleveland FES Center in partnership with our co-sponsors.



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A consortium in Functional Electrical Stimulation technology including the Louis Stokes Cleveland VAMC, Case Western Reserve University and MetroHealth Medical Center

Neural Prosthesis Seminar Series 2014-2015

Date	Speaker	Time	Location	Seminar Co-Sponsor
09/19/2014	Jeffrey Capadona, PhD	8:30 AM	Biomedical Research Building 105 CWRU	APT Center VA Center of Excellence
10/17/2014	Nader Pouratian, MD, PhD	8:00 AM	Kulas Auditorium University Hospitals	Neurological Institute University Hospitals
11/21/2014	Lonnie Shea, PhD	8:30 AM	Biomedical Research Building 105 CWRU	Department of Biomedical Engineering CWRU
12/12/2014	Mario Romero-Ortega, PhD	8:30 AM	Biomedical Research Building 105 CWRU	APT Center VA Center of Excellence
01/16/2015	Philip Sabes, PhD	8:30 AM	Biomedical Research Building 105 CWRU	Neurological Institute University Hospitals
02/13/2015	Nicholas Hatsopoulos, PhD	8:30 AM	Biomedical Research Building 105 CWRU	Department of Neurosciences CWRU
03/13/2015	Leo Cohen, MD	8:30 AM	Biomedical Research Building 105 CWRU	Department of Physical Medicine and Rehabilitation MetroHealth
04/10/2015	Bin He, PhD	8:30 AM	Biomedical Research Building 105 CWRU	Neurological Institute University Hospitals
05/08/2015	Kevin Tracey, MD	8:30 AM	Biomedical Research Building 105 CWRU	Center for Neurological Restoration Cleveland Clinic

Jeffrey Capadona, PhD



Dr. Jeffrey Capadona is an Assistant Professor of Biomedical Engineering at Case Western Reserve University, as well as a Research Health Scientist at Louis Stokes Cleveland VA Medical Center. The long-term goal of Dr. Capadona's research is to develop advanced materials for neural interfaces which will seamlessly assimilate within the neural tissue to facilitate sustained molecular level connections with individual neurons.

Leo Cohen, MD



Dr. Leo Cohen has served as Senior Investigator of the Human Cortical Physiology and Stroke Neurorehabilitation Section at the National Institute of Neurological Disorders and Stroke and is an elected member of the American Neurological Association. Dr. Cohen's lab is interested in the mechanisms underlying plastic changes in the human central nervous system and in the development of novel therapeutic approaches for recovery of function based on the understanding of these mechanisms.

Nicholas Hatsopoulos, PhD



Dr. Nicholas Hatsopoulos, Associate Professor and Chair of the Committee on Computational Neuroscience at the University of Chicago, focuses his research on the neural basis of motor control and learning. Dr. Hatsopoulos is investigating what features of motor behavior are encoded and how this information is represented in the collective activity of neuronal ensembles in the motor and premotor cortices.

Bin He, PhD



Dr. Bin He is a Distinguished McKnight University Professor of Biomedical Engineering, and Medtronic-Bakken Chair for Engineering in Medicine, at the University of Minnesota. His research interests include neuroengineering, functional biomedical imaging, cardiovascular engineering, and medical devices.

Nader Pouratian, MD, PhD



Dr. Nader Pouratian is an Assistant Professor in the Department of Neurosurgery at UCLA. Dr. Pouratian specializes in surgeries to restore and preserve brain function, in addition to treating peripheral nerve and brachial plexus injuries and tumors. His research focuses on developing novel interventions and technologies for neurological restoration.

Mario Romero-Ortega, PhD



Dr. Mario Romero-Ortega, University of Texas at Arlington, is an Associate Professor of Bioengineering. Dr. Ortega is interested in nerve injury and repair with the long-term goal of uncovering the molecular bases of neurite growth, axon guidance, and target recognition, both during development and after injury. His research projects aim at uncovering the basic cellular and molecular mechanisms underlying the biology of nerve growth, and the implementation of improved nerve repair strategies.

Philip Sabes, PhD



Dr. Philip Sabes is an Associate Professor of Physiology at the University of California, San Francisco School of Medicine. His research studies the ability of the brain to flexibly and adaptively integrate information from a variety of sources. Ultimately, he hopes to harness these abilities and their underlying neural mechanisms to repair brain dysfunction.

Lonnie Shea, PhD



Dr. Lonnie Shea is a Professor of Chemical and Biological Engineering at Northwestern University whose research interests are tissue and cellular engineering, drug delivery, gene therapy, and signal transduction. Given the complexity inherent in tissues, Dr. Shea's laboratory is currently focusing on an approach termed "Systems Tissue Engineering", indicating the need to develop systems capable of presenting combinations of factors that drive tissue growth as well as identify the appropriate combination of factors.

Kevin Tracey, MD



Dr. Kevin Tracey is President of the Laboratory of Biomedical Science at The Feinstein Institute for Medical Research, and Professor of Molecular Medicine & Neurosurgery at Hofstra North Shore-LIJ School of Medicine. His research focuses primarily on inflammation, the physiological and immunological response to infection and injury, and the mechanism by which neurons control the immune system.



CME Accreditation/Designation Statement

The MetroHealth System is accredited by the Ohio State Medical Association to provide continuing medical education for physicians.

The MetroHealth System designates this educational activity for a maximum of 1 (one) AMA PRA Category 1 Credit(s)[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Please visit FEScenter.org/seminar for schedule changes prior to each event.