

## Neural Prosthesis Seminar Series

May 8, 2009

8:30 AM to 9:30 AM

Frohring Auditorium (BRB-105)  
Case Western Reserve University

### “Deep Brain Stimulation Clinical Applications and Mechanizations of Action”



*Jerrold L. Vitek, MD, PhD*

#### **Jerrold L. Vitek, MD, PhD**

Director, Neuromodulation Research Center  
Edward F. and Barbara A. Family Endowed Chair  
Lerner Research Institute, Cleveland Clinic

Profile: Dr. Jerrold Vitek is Director of the Neuromodulation Research Center in the Department of Neurosciences at the Lerner Research Institute. Dr. Vitek is also a Staff Neurologist in the Neurological Institute for Movement Disorders at The Cleveland Clinic Foundation. He joined The Cleveland Clinic in 2004 and was recruited to a newly-formed department called Center for Neurological Restoration to develop the application of functional surgical and deep brain stimulation techniques for the treatment of neurological disease.

Dr. Vitek received his medical degree as well as a doctorate in neurophysiology from the University of Minnesota in 1984. He completed a residency in neurology at The Johns Hopkins Hospital in 1988 and accepted a faculty position in the Department of Neurology at The Johns Hopkins University School of Medicine. There he spent two years studying

motor systems in the MPTP animal model of Parkinson's disease and worked with Drs. Fred Lenz and Mahlon DeLong to establish the functional neurosurgery program at The Johns Hopkins Hospital. In 1990, he took a position in Atlanta, Georgia, at the Emory University School of Medicine where he developed and directed the program for functional and stereotactic neurology. During that time, this program gained both national and international recognition. While at Emory, he also conducted basic science research studying the circuitry and mechanism underlying the development of movement disorders. His work in deep brain stimulation using animal models of DBS has provided new insight into the mechanisms underlying the beneficial effect of DBS for Parkinson's disease and dystonia.

Dr. Vitek has earned the world-wide reputation as a leader in the field of deep brain stimulation for movement disorders and, using a multidisciplinary approach, continues to build upon these advancements today. He oversees a team of scientists and technicians researching methods to relieve Parkinson's, dystonia and essential tremor.

#### **Hosted by:**

##### **Hunter Peckham, Ph.D.**

Donnell Institute Professor of Biomedical Engineering and Orthopaedics  
Case Western Reserve University  
Director, Functional Electrical Stimulation Center  
Louis Stokes Veterans Affairs Medical Center  
MetroHealth Medical Center

*This seminar is sponsored by the FES & APT Centers - For more information, please contact Cathy Walker at 216-707-6490*

*The Cleveland FES Center is a consortium in Functional Electrical Stimulation including the Louis Stokes Cleveland VAMC, Case Western Reserve University, and the MetroHealth Medical Center*