

Program Agenda

New Horizons in Functional Neurosurgery

Friday, September 17, 2021 • 7 am to 3:15 pm

- 7 am** **Registration and Continental Breakfast**
- 8 am** **Welcome Address**
Chuck Mikell, MD, Course Director; Clinical Assistant Professor of Neurosurgery, Renaissance School of Medicine at Stony Brook University; Co-Director, Stony Brook Parkinson's and Movement Disorders Center
- 8:15 am** ***Deterministic Cortical Dynamics: The Aftermath of Extended Injuries to Thalamocortical Circuitry***
Sima Mofakham, PhD, Course Co-Director; Assistant Professor of Neurosurgery, Renaissance School of Medicine at Stony Brook University
- 8:45 am** ***Thalamic Neuromodulation to Restore Conscious Decision-Making During Seizures***
Jason Gerrard, MD, PhD, Assistant Professor of Neurosurgery and of Neuroscience, Yale University; Chief, Functional Neurosurgery and Chief, Trauma Neurosurgery, Yale New Haven Hospital
- 9:15 am** ***Focused Ultrasound for Children: Adult Lessons Learned***
Travis Tierney, MD, PhD, FAANS, Staff Neurosurgeon, Catholic Health Initiatives (CHI) St. Mary's (Nebraska City, NE)
- 9:45 am** **Questions and Open Discussion**
- 10 am** **Break**
- 10:30 am** ***Connectomic Deep Brain Stimulation: Research, Translational, and Clinical Work***
Chengyuan Wu, MD, MSBmE, Associate Professor, Neurological Surgery & Radiology, Thomas Jefferson University; Co-Director, Integrated Magnetic Resonance Imaging Center and Fellowship Director, Stereotactic and Functional Neurosurgery, Division of Epilepsy and Neuromodulation Neurosurgery, Sidney Kimmel Medical College at Thomas Jefferson University
- 11 am** ***Development of a Phase-Dependent Stimulation Technique***
William "Stan" Anderson, MA, MD, PhD, Associate Professor of Neurosurgery, Johns Hopkins School of Medicine, Johns Hopkins University
- 11:30 am** ***Repairing Cortical Circuitry Using Transplanted Human Brain Organoids***
Isaac Chen, MD, Assistant Professor of Neurosurgery, Presbyterian Medical Center of Philadelphia and Veteran's Administration Medical Center, Perelman School of Medicine at University of Pennsylvania
- 12 pm** **Questions and Open Discussion**
- 12:15 pm** **Lunch**
- 1 pm** ***Update on Electrophysiology of Brain Injury***
Chuck Mikell, MD, Course Director; Clinical Assistant Professor of Neurosurgery, Renaissance School of Medicine at Stony Brook University; Co-Director, Stony Brook Parkinson's and Movement Disorders Center
- 1:30 pm** ***A New Model of Hydrocephalus***
Michael Egnor, MD, Professor of Neurological Surgery and Pediatrics, Director of Pediatric Neurosurgery, Program Director, Neurological Surgery Residency and Director of Research of Education, Renaissance School of Medicine at Stony Brook University
- 2 pm** ***Updates on Neuromodulation for Depression***
Lucian Manu, MD, Clinical Assistant Professor of Psychiatry and Behavioral Health and Director of Neuromodulation, Renaissance School of Medicine at Stony Brook University
- 2:30 pm** **Questions and Open Discussion**
- 3 pm** **Closing Address**
Chuck Mikell, MD