**Deep Brain Stimulation Think Tank VII Sept 5, 2019**

Colleagues, because of the hurricane (Dorian) we will be cancelling the in person meeting in Orlando, but doing **an all day zoom meeting** of the 7th annual think tank **on this coming Thursday Sept 5, 2019.** It is really critical that **everyone present their talks this coming Thursday** so we can rapidly publish the proceedings, and the tank does not lose momentum.

We will publish the 7th annual proceedings and will have a special issue of Frontiers of Neuroscience for all of your cutting-edge DBS work. We hope you will consider submitting to our issue. Our goal on the Frontiers issue is rapid review and publication! Here is the web address for the issue: <https://www.frontiersin.org/research-topics/11337/deep-brain-stimulation-think-tank-updates-in-neurotechnology-and-neuromodulation-research>

We will cancel all the hotel reservations at the Loews that we made. **If you made your own hotel reservation please cancel it yourself.** We will cancel all the flights we arranged (only 7 arranged by us). Please, again **if you made your own flight reservation cancel it yourself.** Most of the time, the airline will refund you or let you use the ticket again in the next 12 months (in this case for the next think tank). We encourage you to call the airline reservation agent in person and ask them for an immediate refund as usually they will agree.

Sorry for any inconvenience, Michael, Adolfo and Kelly

**Zoom Meeting**

**Eastern Standard Times**



We are excited to announce that in addition to the proceedings paper your individual papers can be submitted to Frontiers in Neuroscience under the topic: **“Deep Brain Stimulation Think Tank: Updates in Neurotechnology and Neuromodulation Research.”** The papers will be rapidly reviewed. The editors are Drs James Giordano, Adolfo Ramirez-Zamora and Michael Okun.

<https://www.frontiersin.org/research-topics/11337/deep-brain-stimulation-think-tank-updates-in-neurotechnology-and-neuromodulation-research>

**Thursday Sept 5, 2019**

**Industry Blitz**

**800-900AM with Questions**

**Where is the future going?**

Abbott

Medtronic

Boston Scientific

Others

**Ethico-legal Issues in Deep Brain Stimulation: The IEEE Neuroethics Guidelines:**

**Minding The Double Sided Blade of Cutting Edge Neurotechnology**

**Moderator:** James Giordano, PhD., Georgetown; Brief intro IEEE updates

**James Giordano**

**9:00-9:20AM IIEE Neuroethics Updates**

**9:20-9:30 Questions**

**Personality and Neuroethics in Parkinson’s Disease DBS**

**Cynthia Kubu, PhD., Cleveland Clinic**

**9:30-9:50AM**

**9:50-10:00AM Questions**

#### **Updates on the NIH Brain Initiative on Neuroethical Issues**

**Lauren Sankary, JD., Cleveland Clinic**

**10-1020AM**

**1020-1030AM Questions**

**Neuroethics of DBS in Mexico and around the World**

## **Karen Herrera-Ferrá, PhD., Mexican Association of Neuroethics**

**1030AM-1050AM**

**1050AM-11AM Discussion**

**Mixed Augmented Virtual Reality**

**Moderator: Cameron McIntyre, PhD., Case Western**

**Using Virtual Reality with LFP Acquisition**

**11AM-11:20AM**

**1120AM-1130AM Questions**

**Nanthia Suthana, PhD., UCLA**

**Using Virtual Reality for Patient Engagement**

**1130AM-1150AM**

**1150AM-12PM Questions**

**Leslie Schlachter, PA-C, Mt. Sinai, NY**

**Holographic DBS**

**12PM-1220PM**

**1220PM-1230PM Questions**

**Cameron McIntyre, PhD., Case Western**

**1230-1PM Lunch Break**

**Emerging Targets and Multiple DBS Targeting**

**Moderator: Alfonso Fasano, M.D., University of Toronto**

**Emerging DBS Targets in Non-motor Disorders**

**1PM-120PM**

**120PM-130PM Questions**

**Andres Lozano M.D., PhD., University of Toronto**

**Emerging DBS Targets in Motor Disorders**

**130-150PM (630PM London)**

**150-2PM Questions**

**Thomas Foltynie, M.D., University College London**

**Using Multiple DBS Targets**

**2PM-220PM**

**220PM-230PM Questions**

**Alfonso Fasano, M.D., University of Toronto**

**The Intersection of Optogenetics and DBS**

**Moderator: Annabelle Singer PhD., Georgia Tech**

**“The ‘Inner Chamber’: Thalamic physiology in preclinical models of autism”**

**230PM-250PM**

**250PM-300PM Questions**

**Audry Brumback, M.D., PhD., UT Austin**

**Neural Circuit Mechanisms of Memory Retrieval: Toward Mechanistic Insight & Therapeutic Targets**

**3PM-320PM**

**320PM-330PM Questions**

**Priya Rajasethupathy, PhD., Rockefeller University**

**Optogenetic STN Deep Brain Stimulation**

**330PM-350PM**

**350PM-4PM Questions  
Warren Grill, PhD., Duke**

**Closed Loop DBS Clinical**

**Moderator: Ayse Gunduz PhD.**

**Adaptive DBS in Parkinson's disease - short term studies**

**4-420PM**

**420-430PM Questions**

**Simon Little, PhD, UCL**

**Sensing and closed loop stimulation using the Summit RC+S platform: early experience**

**430-450PM**

**450-5PM Questions**

**Ro’ee Gilron, PhD., UCSF**

**Combining Directional DBS and Physiology Toward a Closed Loop Approach**

**5-520PM**

**520PM-530PM**

**Gerd Tinkhauser, M.D., PhD (University of Oxford; University of Bern)**

**StereoEEG and Deep Brain Stimulation**

**Moderator: Samer Sheth, MD PhD., Baylor**

**Using sEEG to identify targets for 4-lead DBS in childhood secondary dystonia**

**530-550PM**

**550PM-6PM**

**Terry Sanger, M.D., University of Southern California**

**6PM-620PM**

**620PM-630PM**

**A personalized circuit-based approach to the treatment of major depression: moving toward closed-loop therapies**

**Katherine Scangos. M.D., PhD. UCSF**

**Use of SEEG for early evaluation of novel targets and indications**

**630PM-650PM**

**650PM-7PM**

**Jonathan Miller, M.D., Case Western**

**Using Local Field Potentials in DBS Research**

**Moderator: Harrison Walker, UAB**

**DBS Local Evoked Potentials**

**7-720PM (Australia time 14 hours forward; start 830AM)**

**720-730PM Questions**

**Wes Thevasthasan, M.D., University of Melbourne**

**Cortical Evoked Potentials in DBS**

**730PM-750PM**

**750PM-8PM**

**Harrison Walker, M.D., University of Alabama**

**Neuronal Sources of Evoked Potentials**

**8-820PM**

**820PM-830PM Questions**

**Warren Grill, PhD., Duke University**