Program

Tuesday, November 7

7:00pm Hackathon Happy Hour
Location TBA

Wednesday, November 8

8:00am – 5:00pm MEG Hackathon - FAES Classroom 5

8:00am – 12:00pm Human Neocortical Neurosolver Course – NMR center conference room

10:00am – 12:00pm Working Group – New Clinical Indications

12:00pm – 1:00pm Lunch

1:00pm – 2:45pm Working Group – Multimodal Imaging – Pete Molfese

2:45pm – 3:00pm Coffee and snacks

3:00pm – 5:00pm Industry Panel

5:30pm Dinner and Social Gathering
Rock Bottom Brewery, Bethesda MD

Thursday, November 9

8:00am – 8:30am Coffee and snacks

8:30am – 9:00am Meeting introduction – Allison Nugent

9:00am – 10:00am **Keynote Lecture: Tal Kenet**
Functional connectivity abnormalities in autism spectrum disorder – Great expectations and Hard Times (and Great Expectations again?)

10:00am – 10:30am Coffee Break and Poster Session

10:30am – 11:20pm **Symposium 1: Auditory processing and language**
Neural tracking Measures of speech Intelligibility: manipulating intelligibility while keeping acoustics unchanged
Dushyanthi Karunathilake
Left fusiform activity explains variability in fixation durations during natural reading: Evidence from co-registered MEG & eye-tracking
Graham Flick
Localizing covert and overt picture naming processes using MEG
Hsi T. Wei
Precision tagging of neural responses for tracking selective attention & learning mechanisms in the brain
Cassia Low Manting

11:20pm – 11:50pm **Symposium 2: Machine Learning**
Temporal signatures of multidimensional object properties in the human brain
Lina Teichmann
Decoding Individual sequence skill learning actions during planning and execution
Debadatta Dash
Temporal dynamics of age, gender, and identity representations invariant to head views for familiar faces
Amita Giri

11:50pm – 12:30pm **Symposium 3: OPM MEG**
Multi-Frequency encoded source imaging for wearable OPM-MEG
Jing Xiang
Biplanar coil cancellation system for OPM-MEG using PCB
Mainak Jas
Towards precise mapping of digit representations in the human somatosensory cortex with high resolution magnetoencephalography
Amaia Benitez-Andonegui

12:30pm – 1:30pm Lunch

1:30pm – 2:30pm **Keynote Lecture: Elizabeth Davenport**
The Impact of Head Impacts: MEG Findings in Concussion and Sub-Concussive Impacts

2:30pm – 3:30pm Coffee Break and Poster Session

3:30pm – 4:30pm **Symposium 4: Big Data and Methods/Stats**
Age-Related trends in transient beta bursts: observations from big data
Lindsey Power
Fully hyperbolic neural Networks: A novel approach to discover aging trajectories from MEG brain networks
Hugo Ramirez
The ENIGMA MEG resting state analysis pipeline
Jeff Stout
Estimating the number of active sources in MEG based on an F-ratio method
Amita Giri
Reliable MEG/MSI source localization in patients with implanted vagus nerve stimulator (VNS) devices: a single-centered, large clinical observation study
Mahmoud Jiha

4:30pm – 5:00pm Meeting Close