

IEEE Brain Initiative Workshop on Advanced NeuroTechnologies for BRAIN Initiatives

National Housing Center, Washington D.C., November 9-10, 2017



The IEEE Brain Initiative Workshop will highlight the development of novel technological innovations, including engineered neuro-materials based implants, opto-genetics, to treat and monitor, traumatic brain injury, cognitive brain impairments, stroke and spinal cord injury etc. We also highlight translational clinical research on human-machine interface systems to significantly restore, and enhance, the impaired sensory functions and motor systems. Furthermore, global neuro-technology industry trends, nano devices, computational advances, and stem cell engineering for the treatment of neurological diseases, from the molecular to systemic levels, will be discussed.

Location is at the National Housing Center, 1201 15th St., NW, Washington DC.



Tentative Program at a Glance

November 9, 2017

Opening and Welcome Remarks 08:15-08:30 AM

Paul Sajda, Chair, IEEE Brain Initiative
Metin Akay, Chair, ANTBI Workshop

Keynote #1 08:30-09:30 AM

Tim Denison, Medtronic

Coffee Break 09:30-10:00 AM

Symposium#1: Neuroethics 10:00 AM-12:00 PM

Recorded Message, **Judy Illes**, University of British Columbia
Sara Goering, University of Washington
Karen Rommelfanger, Emory University (pending)
James Giordano, Georgetown University

Lunch Break 12:00-01:00 PM

Symposium#2: Technologies for Brain Trauma and Spinal Cord Injuries 01:00-03:00 PM

Silvestro Micera, EPFL
Michelle LaPlaca, Georgia Tech
Robert Kirsch, Case Western University

Coffee Break 03:00-03:30 PM

Symposium#3: Engineering Next Generation BCI 03:30-05:30 PM

Krishna Shenoy, Stanford University
Jacob Robinson, Rice University
Jon Viventi, Duke University

November 10, 2017

Keynote #2 08:30-09:30 AM

Mark Chevillet, Facebook

Coffee Break 09:30-10:00 AM

Symposium#4: Neurotechnology for Rehabilitation 10:00 AM-12:00 PM

Ted Berger, University of Southern California
James Weiland, University of Michigan
Jack Judy, University of Florida

Lunch Break 12:00-01:00 PM

Symposium#5: Neurocomputation and Modeling 01:00-03:00 PM

John White, Boston University
Loren Frank, University of California, San Francisco
Maryam Shanechi, University of Southern California
Cynthia Chestek, University of Michigan

Coffee Break 03:00-03:30 PM

Symposium#6: Global Neurotechnology Industry 03:30-05:30 PM

Chad Bouton, Feinstein Institute
Matthew Angle, Paradromics
Mark Schnitzer, Inscopix (pending)

Closing Remarks 05:30-5:45 PM

Paul Sajda, Chair, IEEE Brain Initiative
Metin Akay, Chair, ANTBI Workshop