



Society for Brain Mapping and Therapeutics (SBMT) South Galleria Biltmore Bowl: Final Program

15th April 2018

Sunday, April 15th 10:00 – 11:30 am

Session C43: NASA/Federal Labs Technology & Innovation

Chair: David Oberhettinger and Roger Werne

10:00-10:15 Roger W. Werne (Lawrence Livermore National Laboratory): BioMedical Research at Lawrence Livermore National Laboratory

10:15-10:30 David Oberhettinger (NASA/Caltech Jet Propulsion Laboratory (JPL)): "Dare Mighty Things": Innovation is the Key to Deep Space Exploration"

10:30-10:45 Laura Beth Fisher (NASA/Caltech Jet Propulsion Laboratory (JPL)): Celebrate, Educate, Connect

10:45-11:00 Corey J. Cochrane (NASA/Caltech Jet Propulsion Laboratory (JPL)): Next-generation magnetometer using quantum centers in silicon carbide

11:00-11:15 Alice Winter (NASA/Caltech Jet Propulsion Laboratory (JPL)): "Collaborative Field Geology on Mars, From Earth"

11:15-11:30 Session Discussion

Sunday, April 15th 1:00 – 2:30 pm

Session C50: US BRAIN Initiative

Chair: Nick Langhals

1:00-1:15 Nick Langhals (National Institutes of Health / National Institute of Neurological Disorders and Stroke): The BRAIN Initiative at NIH

1:15-1:30 F. Alex Chiu (Office of Research and Development (10P9B), Dept. of Veterans Affairs Central Office): Veteran Health Brain Administration Research

1:30-1:45 AL Emondi (DARPA, Biological Technologies Office): Opportunities for Next Generation Non-Surgical Neurotechnology

1:45-2:00 Kuldip Sidhu (Department of Neurology, Tianjin Huanhu Hospital China, CK Cell Technologies, Pty Ltd., SBMT, BMF Australia, G20 World brain mapping & Therapeutic Initiative): Neuroscience-20 Initiative of the G20 Summit

2:00-2:15 Babak kateb (Society for Brain Mapping & Therapeutics (SBMT), Brain Mapping Foundation], National Center for NanoBioElectronics , Brain Technology and Innovation Park Loma Linda Univeristy, Department of Neurosurgery): Brain Technology and Innovation Park

2:15-2:30 Session Discussion

Sunday, April 15th 3:00 – 4:30 pm

Session C57: International Space Station (ISS) Technology Transfer and Integration

Co-Chairs: Miki Sode and Michael Reberts

3:00-3:15 Jennifer Fogarty (NASA): Human Space Exploration: Understanding Adaptation, Compensation, and Consequences

3:15-3:30 Jessica Lee (University of Florida): Spaceflight Effects on Regional Brain Gray Matter, White Matter, and Extracellular Fluid Distribution

3:30-3:45 Donna R. Roberts (Medical University of South Carolina): Effects of Spaceflight on Astronaut Brain

3:45-4:00 Christopher Hinojosa (Emulate, Inc.): Organs-on-Chips as a Platform for Studying Effects of Microgravity on Human Physiology: Blood-Brain Barrier-Chip in Health and Disease

4:00-4:15 Michael S. Roberts (Center for the Advancement of Science In Space (CASIS)): The International Space Station National Lab: Science in Space for Life On Earth

4:15-4:30 Session Discussion

Sunday, April 15th 5:00 – 6:30 pm

Session C64: SBMT Fellows Oral Posters

Chair: Shahram Hadidchi

5:00-5:15 Hesam Hafzi (Society for Brain Mapping & Therapeutics): Multi modality brain mapping system (mbms) using artificial intelligence and pattern recognition

5:15-5:30 Siranoosh Betikian (Society for Brain Mapping & Therapeutics): Optimized method of coating the microablation probe

5:30-5:45 Shahram Hadidchi (Society for Brain Mapping & Therapeutics): Alkaptonuria and Lumbar Disc Herniation

5:45-6:00 Ashkan Javadzadeh (Society for Brain Mapping & Therapeutics): UV Imaging for Intraoperative Tumour Delineation

6:00-6:15 Tara Zadeh (Society for Brain Mapping & Therapeutics): Diagnosis and Monitoring of Traumatic Brain Injury Using Non-invasive Multimodality Imaging Techniques