



## **ANNUAL MEETING DETAILED DAILY SCHEDULE**

*All sessions will be held in the Colonial Room  
Posters will be located in the Carolina Ballroom*

### **DAY 1 Sunday, April 19**

- 15:00 – 19:00 **Satellite Registration**  
18:00 – 19:00 **Satellite Drinks Reception**

### **DAY 2 Monday, April 20**

- 08:00 – 08:30 **Satellite Registration**  
08:30 – 17:30 **Satellite Meeting**  
17:00 – 19:00 **Conference Registration**  
19:00 – 21:00 **Opening Dinner**

### **DAY 3 Tuesday, April 21**

#### **08:00 – 10:15 Session 1, Panel I**

##### **DECODING THE REACHING AND GRASPING BRAIN**

Participants: Pieter Medendorp; Sara Fabbri; Richard Andersen; Hansjörg Scherberger

#### **10:15 – 10:45 Break**

#### **10:45 – 13:00 Session 2, Panel II**

##### **NEUROECONOMICS OF MOTOR CONTROL: EFFORT AND REWARD IN THE HEALTHY AND PARKINSONIAN BRAIN**

Participants: Alaa Ahmed, John Salamone; Reza Shadmehr; Robert Turner

#### **13:00 – 15:00 Session 3, Poster 1a Lunch**

#### **15:00 – 17:00 Session 4, Individual Presentations I**

##### **THE NEURAL CODING OF ACTION IN THE PURKINJE CELLS OF THE CEREBELLUM**

Participants : David Herzfeld; Yoshiko Kojima; Robijanto Soetedjo; Reza Shadmehr

**SIMPLE ELEMENTS IN SMART TOPOLOGIES: MODELING BROAD RESPONSES IN THE GAZE ORIENTATION SYSTEM**

Participants : Iman Haji-Abolhassani; Daniel Guitton; Henrietta Galiana

**ILLUSIONS AFFECT VISUOMOTOR UPDATING IN POSTERIOR PARIETAL CORTEX**

Participants : Anouk de Brouwer; Jeroen Smeets; Tjerk Gutteling; Ivan Toni; Pieter Medendorp

**BASAL GANGLIA SIGNALING FLEXIBLY PROMOTES PASSIVE AND ACTIVE BEHAVIORAL CONTROL**

Participants : Jay Jantz; Masayuki Watanabe; Ron Levy; Douglas Munoz

**DISTINCT MOTOR CORTICAL REGIONS ASSOCIATED WITH HUMAN PELVIC FLOOR MUSCLE SYNERGIES**

Participants : Jason Kutch; Manku Rana; Skulpan Asavasopon; Moheb Yani

**USING ROBOTICS TO CHARACTERIZE THE RELATIONSHIP OF POSITION SENSE AND KINESTHETIC IMPAIRMENTS AFTER STROKE**

Participants : Jennifer Semrau; Troy Herter; Stephen Scott; Sean Dukelow

**DAY 4 Wednesday, April 22**

08:00 – 10:15

**Session 5, Panel III**

**MOTOR MEMORY - THE FORGOTTEN ASPECT OF MOTOR ADAPTATION AND LEARNING: FROM AFTER-EFFECTS AND SAVINGS TO LONG-TERM RETENTION**

Participants: Dagmar Sternad, Nicolas Schweighofer; Gelsy Torres-Oviedo; Valeria Della Maggiore

10:15 – 10:45

**Break**

10:45 – 13:00

**Session 6, Panel IV**

**HIERARCHICAL ORGANISATION OF ACTION SEQUENCES**

Organizer:

Participants: Scott Grafton, Joern Diedrichsen; Konrad Koerding; Xin Jin

13:00 – 15:00

**Session 7, Poster 1b  
Lunch**

15:00 – 17:15

**Session 8, Panel V**

**CORTICOSTRIATAL AND CORTICOCEREBELLAR FUNCTION AND CONNECTIVITY IN PARKINSONS DISEASE**

Organizer:

Participants: Rachael Seidler, David Vaillancourt; Jay Alberts; Brett Fling

**DAY 5 Thursday, April 23**

08:00 – 9:40 **Session 9, Individual Presentations II**

**ADJUSTMENT OF GAMMA MOTOR NEURON FIRING RATES IN NEUROMORPHIC HARDWARE ELICITS PHYSIOLOGICAL BEHAVIOR WHILE CONTROLLING A CADAVERIC HUMAN FINGER UNDER KINEMATIC CONSTRAINTS**

Participants: Victor Ramon Barradas Patino; C. Minos Niu; Terence Sanger; Gerald Loeb; Francisco Valero-Cuevas

**INDEPENDENCE OF MOVEMENT PLANNING AND MOVEMENT INITIATION IN A CHOICE REACTION TIME TASK**

Participants: Adrian Haith; Jina Pakpoor; John Krakauer

**EVIDENCE FOR MOTOR ENCODING OF POTENTIAL REACH TARGETS**

Participants: Jason P. Gollivan, Daniel M. Wolpert, J. Randall

**EFFECT OF MULTI-HUMAN INTERACTION ON MOTOR PERFORMANCE**

Participants: Atsushi Takagi; Hirashima Masaya; Daichi Nozaki; Etienne Burdet

**A TWO-LAYER NEURAL ARCHITECTURE UNDERLIES DESCENDING CONTROL OF LIMBS IN DROSOPHILA**

Participants: Cynthia Hsu; Vikas Bhandawat

9:40 – 10:10 **Break**

10:10 – 11:40 **Session 10, Perspective I**

**INTERPLAY OF SENSORY AND MOTOR SYSTEMS IN MOTOR CONTROL**

Organizer:

Participants: Sliman Bensmaia, Tamar Makin; Robert Gaunt

*(Board Meeting 11.40 – 12.10)*

12:10 – 14:10 **Session 11, Poster 2a  
Lunch**

**FREE TIME AND EXCURSIONS (TICKETED)**

**DAY 6 Friday, April 24**

08:00 – 10:15 **Session 12, Panel VI**

**HOW THE CNS OPERATES AS A MULTI-USER SYSTEM**

Organizer:

Participants: Jonathan Wolpaw, Andrea d'Avella; Aaron Batista; Aiko Thompson

10:15 – 10:45

**Break**

10:45 – 12:45

**Session 13, Individual Presentations III**

**A LARGE SCALE SPIKING MODEL OF THE MOTOR CORTEX AND CEREBELLUM IN COMPLEX ARM CONTROL**

Participants: [Travis DeWolf](#); [Chris Eliasmith](#)

**IMPACT OF MUSCLE REDUNDANCY ON THE SYNERGY HYPOTHESIS**

Participants: [Cristiano Alessandro](#); [Robin Urselli](#); [Juan Pablo Carbajal](#); [Robert Riener](#)

**HOW DOES THE SENSORIMOTOR SYSTEM REPRESENT A DELAYED VELOCITY-DEPENDENT FORCE FIELD?**

Participants: [Guy Avraham](#); [Firas Mawase](#); [Lior Shmuelof](#); [Opher Donchin](#); [Ferdinando Mussa-Ivaldi](#); [Ilana Nisky](#)

**PARADOXICAL BENEFITS OF DUAL-TASK CONTEXTS FOR VISUOMOTOR MEMORY**

Participants: [Joo-Hyun Song](#); [Hee Yeon Im](#); [Patrick Bedard](#)

**P3 OR NOT P3: ASSESSING THE OCCURRENCE OF THE P300 EVENT-RELATED POTENTIAL DURING SENSORIMOTOR MEMORY UPDATING DURING AN OBJECT LIFTING TASK.**

Participants: [Kelene Fercho](#); [Lee Baugh](#)

**EXECUTION VARIABILITY RESTRICTS LOCOMOTOR ADAPTATION IN CEREBRAL PALSY PATIENTS**

Participants: [Firas Mawase](#); [Simona Bar-Haim](#); [Amir Karniel](#); [Lior Shmuelof](#)

12:45 – 14:45

**Session 14, Poster 2b  
Lunch**

14:45 – 16:15

**Session 15, Perspective II**

**NEW METHODS OF ANALYSIS OF POPULATION DATA- RELATING NEURAL DYNAMICS AND SHERRINGTON REDUCTIONISM**

Organizer:

Participants: [Simon Gizster](#), [Terence Sanger](#); [Maryam Shanechi](#); [John Cunningham](#)

16:15 – 17:30

**Session 16, Keynote Address**

Peter Strick, PhD, University of Pittsburgh

17:30 – 18:30

**Closing Drinks Reception**