Sunday, April 6th

3:00 pm	Check-in
6:00 pm	Reception (Lobby)
6:30 pm	Dinner
7:30 pm	Welcome and Introduction
7:30 pm 7:45 pm	Welcome and Introduction Science Speed Dating! (Lobby)

NOTE: Meals are in the **Dining Room** Talks are in the **Auditorium** Posters are in the **Lobby**



Monday, April 7th

7:00 am	Breakfast (service ends at 8:15am)
8:30 am	Session 1: Mechanisms underlying map formation, maintenance and function I Chair: Erin Diel
8:30 am	James A. Bednar, University of Edinburgh Developmental origin of feature maps in the primary visual cortex
8:55 am	Minoru Koyama , Janelia Farm Research Campus/HHMI Systematic connectivity patterns between two topographically organized regions in zebrafish locomotor circuits
9:20 am	Gordon MG Shepherd , Northwestern University <i>Neocortical circuits: a projection neuron perspective</i>
9:45 am	Break
10:05 am	Session 2: Mechanisms underlying map formation, maintenance and function II Chair: Florian Walker
10:05 am	S. Murray Sherman , University of Chicago Thalamus plays a central role in cortical functioning
10:30 am	Edvard I. Moser , Norwegian University of Science and Technology <i>Modular organization of the entorhinal grid map</i>
10:55 am	Guangying Wu , George Washington University The development of direction selectivity in the auditory system
11:20 am	Break
11:40 am	Leonardo Belluscio , National Institutes of Health Understanding the olfactory bulb maps
12:05 pm	Tom Mrsic-Flogel , University College London <i>Feature-specific connectivity in mouse visual cortex</i>
12:30 pm	Lunch (Service ends at 1pm)



How to Read a Map: Understanding Structure-Function Relationships in the Brain

1:30 pm	Janelia Association of Research Scientists (JARS) Invited Talk Patricia Churchland, University of California, San Diego
	Developing neurophilosophy & dodging potshots: A tale of love and dismay in the age of neuroscience
2:30 pm	Break
3:00 pm	Session 3: Maps everywhere, or maybe not Chairs: Saikat Ray
3:00 pm	Uwe Homberg , Philipps-Universität Marburg <i>The polarotopic compass in the central complex of the locust brain</i>
3:25 pm	Maurice J. Chacron , McGill University Processing of second order stimulus features in the electrosensory brain
3:50 pm	Amiram Grinvald , Weizmann Institute of Science VSDI imaging of distributed processing in the rat barrel cortex
4:15 pm	Break
4:45 pm	Gordon M. Shepherd, Yale School of Medicine Mapping multidimensional space in the olfactory pathway
5:10 pm	Catherine Carr , University of Maryland Good enough maps for sound localization
5:35 pm	Andrew King , University of Oxford Coding of auditory space in the brain: From maps to dynamic and distributed representations
6:00 pm	Poster Reception
7:15 pm	Dinner
8:30 pm	Panel Discussion
9:30 pm	Refreshments available at Bob's Pub



Tuesday, April 8th

7:30 am	Breakfast (service ends at 8:45am)
9:00 am	Session 4: Spatial maps Chair: Tobias Bockhorst
9:00 am	Elizabeth Buffalo , Emory University Seeing is remembering: Visual exploration and memory formation in nonhuman primates
9:25 am	Arseny Finkelstein , Weizmann Institute of Science Functional organization of 3D neural compasses in the bat brain
9:50 am	Break & Group Photo
10:30 am	Session 5: Computing with maps Chair: Patrick Kaifosh
10:30 am	Matteo Carandini, University College London Summation and division across a cortical map of visual space
10:55 am	Wolfgang Maass , Technische Universität Graz Emergence of computational function in cortical microcircuit motifs
11:20 am	Break
11:40 am	Kevan AC Martin, Swiss Federal Institute of Technology, Zurich Organizing principles of cortical circuits and their function
12:05 pm	Idan Segev, Hebrew University What did I learn from digitally building the brain?
12:30 pm	Lunch (service ends at 1pm)
1:30 pm	Tour (optional – meet at reception)



2:30 pm	Session 6: Where sensory meets motor I Chair: Romain Franconville
2:30 pm	Robert Wurtz , National Institutes of Health Shifting visual maps with corollary discharge
2:55 pm	Joshua Dudman, Janelia Farm Research Campus/HHMI A substrate for cortical competition in the dorsal striatum?
3:20 pm	Tim Murphy , University of British Columbia Spontaneous activity mapping in GCaMP3 mice provides topology of functional connections and symmetries between areas of somatomotor cortex
3:45 pm	Break
4:05 pm	Tirin Moore , HHMI/Stanford University Prefrontal control of visual cortical signals and its role in perception
4:30 pm	Shreesh P. Mysore, Johns Hopkins University Stimulus selection for spatial attention: Neural building blocks
4:55 pm	Poster Reception
7:00 pm	Dinner
8:15 pm	Panel Discussion
9:30 pm	Refreshments available at Bob's Pub



Wednesday, April 9th

7:30 am	Breakfast (service ends at 9:00am)
9:30 am	Session 7: Where sensory meets motor II Chair: Johannes Seelig
9:30 am	Michael P. Stryker , University of California, San Francisco How behavioral state changes the gain of primary visual cortex
9:55 am	Karel Svoboda, Janelia Farm Research Campus/HHMI From perception to action: the flow of information underlying a tactile decision
10:20 am	Richard Mooney , Duke University <i>Two way traffic at the auditory - motor interface</i>
10:45 am	Break
11:05 am	Poster awards
11:50 am	Conclusion and Final Remarks
12:00 pm	Lunch and Departure
12:30 pm 1:30 pm 2:30 pm	First Shuttle to Dulles Second Shuttle to Dulles Last Shuttle to Dulles

