Sunday, May 22nd

3:00 pm Check-in

6:00 pm Reception (Lobby)

7:00 pm Dinner

8:00 pm Keynote Talk: Charles F. Stevens, Salk Institute for Biological Studies

Rockel's principle revisited

9:00 pm Refreshments available at Bob's Pub

05/12/11

Monday, May 23rd

7:30 am	Breakfast (service ends at 8:45)
9:00 am	Session 1: Local processing I Chair: Rafael Yuste
9:00 am	Alex M. Thomson , The School of Pharmacy, University of London <i>Local circuitry in neocortex and hippocampus</i>
9:30 am	Arthur Konnerth, Technical University Munich Dendritic organization of sensory inputs to cortical neurons in vivo
10:00 am	David Ferster , Northwestern University Diverse mechanisms of contrast normalization in primary visual cortex
10:30 am	Break
11:00 am	Session 2: Local processing II Chair: Rafael Yuste
11:00 am	Karel Svoboda, Janelia Farm Research Campus/HHMI The cortical networks underlying haptic object localization
11:30 am	Mitya Chklovskii, Janelia Farm Research Campus/HHMI Hold that thought: Neural circuits supporting persistent percepts
12:00 pm	Panel Discussion
12:30 pm	Lunch
2:00 pm	Session 3: Inhibtion Chair: David Ferster
2:00 pm	John Rubenstein, University of California, San Francisco Cortical interneuron generation and migration
2:30 pm	Rafael Yuste, HHMI/Columbia University A canonical microcircuit for inhibition: Dense inhibitory connectivity in neocortex
3:00 pm	Clay Reid, Harvard Medical School Function and connections of inhibitory interneurons in the mouse visual cortex
3:30 pm	Break

4:00 pm	Session 4: Circuits Chair: David Ferster
4:00 pm	Liqun Luo , HHMI/Stanford University Mapping neural circuits with genetically controlled transsynaptic tracing
4:30 pm	David Kleinfeld , University of California, San Diego Touch is represented in coordinates normalized to the region of interest in an active sensory system
5:00 pm	Panel Discussion
5:30 pm	Poster Reception
7:00 pm	Dinner
8:00 pm	Session 5: Short talks I Chair: Tony Movshon
8:00 pm 8:00 pm	
-	Chair: Tony Movshon Hillel Adesnik, University of California, San Diego Excitatory and inhibitory circuits in the cortex governing interlaminar signal
8:00 pm	Chair: Tony Movshon Hillel Adesnik, University of California, San Diego Excitatory and inhibitory circuits in the cortex governing interlaminar signal propagation Henry Lütcke, Brain Research Institute Impact of altered sensory experience on cortical network activity revealed by

Tuesday, May 24th

7:30 am	Breakfast (service ends at 8:45)
9:00 am	Session 6: Population coding Chair: Kathleen Rockland
9:00 am	Matteo Carandini, University College London The flexible code of a cortical population
9:30 am	John Maunsell, HHMI/Harvard Medical School A neuronal population measure of attention on individual trials
10:00 am	Eero P. Simoncelli , HHMI/New York University <i>Optimal encoding and decoding in sensory neural populations</i>
10:30 am	Break
11:00 am	Session 7: Visual coding Chair: Kathleen Rockland
11:00 am	Bruce Cumming , National Institutes of Health How the cortex adapts to the statistics of the environment: Evidence from binocular vision
11:30 am	Anitha Pasupathy , University of Washington More than meets the eye: Shape encoding under partial occlusion in primate visual cortex
12:00 pm	Panel Discussion
12:30 pm	Lunch
1:00 pm	Tour (optional – meet at reception)
2:00 pm	Session 8: Plasticity Chair: Clay Reid
2:00 pm	Ania Majewska, University of Rochester Microglial contribution to synaptic re-organization in the visual cortex in vivo
2:30 pm	Tobias Bonhoeffer , Max Planck Institute of Neurobiology <i>How activity changes synapses in the mammalian brain</i>

3:00 pm	Solange P. Brown , Johns Hopkins School of Medicine Deciphering the functional organization of cortical circuits through cell-type identity
3:30 pm	Break
4:00 pm	Session 9: Integration Chair: Clay Reid
4:00 pm	Gregory DeAngelis , University of Rochester What cortex does: Insights from studies of optimal multisensory cue integration
4:30 pm	Tony Movshon , New York University Cortical integration for encoding and decoding
5:00 pm	Panel Discussion
5:30 pm	Poster Reception
7:00 pm	Dinner
8:00 pm	Refreshments available at Bob's Pub

Wednesday, May 25th

7:30 am	Breakfast (service ends at 8:45)
9:00 am	Session 10: Short talks II Chair: Alex Thomson
9:00 am	Yves Kremer , Ecole Polytechnique Fédérale de Lausanne (EPFL) Two-photon calcium imaging of barrel cortex during active whisker touch in awake head-restrained mice
9:15 am	Jennifer F. Linden , University College London Distinct simultaneous and delayed contextual effects in auditory cortical responses to complex sounds
9:30 am	Shaul Hestrin, Stanford School of Medicine Cholinergic synaptic transmission in the neocortex
9:45 am	Euiseok J. Kim , University of California, San Diego <i>Molecular and genetic tools to study the function and organization of cortical circuits</i>
10:00 am	Break
10:30 am	Session 11: Large-scale organization Chair: Mitya Chklovskii
10:30 am	Kathleen S. Rockland , RIKEN-MIT Center for Neural Circuit Genetics <i>Observations and inferences from long-distance (LD) cortical connections</i>
11:00 am	Friedrich Sommer , University of California, Berkeley A principle of learning that allows different regions of the brain to communicate without loss of information
11:30 am	David C. Van Essen , Washington University in St. Louis Cortical organization and connectivity in human and macaque cortex
12:00 pm	Panel Discussion / Final Remarks
12:30 pm	Lunch and Departure (To-go boxes available in servery for those on first shuttle)
1:00 pm 1:45 pm 2:30 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles