Full Schedule

Sunday March 29th

3:00 pm	Check-in
6:00 pm	Reception
7:00 pm	Dinner
8:00 pm	Introductory Remarks (Seminar Room)
8:45 pm	Refreshments available at Bob's Pub

Monday March 30th

7:30 am	Breakfast
9:00 am	Session 1: Cortical Strucure - 1 Chair: Rafa Yuste
9:00 am	Kevan A. C. Martin , University of Zurich/ETH <i>The art of neocortex</i>
9:30 am	Javier de Felipe, Cajal Insitute The synaptic organization of the perisomatic region of pyramidal cells
10:00 am	Jon Kaas, Vanderbilt University The non-uniformity of cortical architecture
10:30 am	Break and Group Photo
11:00 am	Session 2: Cortical Structure - 2 Chair: Rafa Yuste
11:00 am	Alex Thomson, The School of Pharmacy, University of London Specificity and selectivity in neocortical circuits
11:30 am	Ed Callaway, The Salk Institute Comparing cortical circuits across areas and species
12:00 pm	Dmitri Chklovskii , Janelia Farm Research Campus/HHMI Statistical analysis and theory of dendritic morphology
12:30 pm	Lunch
1:00 pm	Tour (optional)
2:15 pm	Session 3: Cortical Structure/Function Chair: Michael Shadlen
2:15 pm	Alessandra Angelucci , University of Utah Anatomical circuits for classical and extra-classical receptive field interactions in macaque V1
2:45 pm	Judith A. Hirsch, University of Southern California Shared and distinct features of neural circuits in the visual thalamus and cortex of the cat

3:15 pm	Michael Brecht , Humboldt-Universitat zu Berlin How do single neurons in the rat's cortex contribute to movement and sensation?
3:45 pm	Break
4:15 pm	Poster Session 1
6:00 pm	Reception
7:00 pm	Dinner
8:00 pm	Rountable 1: Is there a canonical cortical microcircuit? Discussion Leaders: Alex Thomson and Rafa Yuste Comments: Kevan Martin, Javier de Felipe, Jon Kaas, Ed Callaway

Tuesday March 31st

7:30 am	Breakfast
9:00 am	Session 4: Cortical Function Chair: Larry Abbott
9:00 am	Wolf Singer , Max Planck Institute for Brain Research <i>Distributed processing and temporal codes in neuronal networks</i>
9:30 am	Tony Movshon , New York University Decoding cortical population signals
10:00 am	Gina Turrigiano , Brandeis University Visually-driven metaplasticity of layer 5 neocortical pyramidal neuron intrinsic excitability
10:30 am	Break
11:00 am	Session 5: Cortical Inhibition Chair: Larry Abbott
11:00 am	Hannah Monyer, University of Heidelberg The functional role of inhibition for cognitive processes
11:30 am	Gabor Tamas , University of Szeged Unitary, GABAergic volume transmission: Presynaptic effects of single neurogliaform cells in the neocortex
12:00 pm	Massimo Scanziani , University of California, San Diego Somatic and dendritic inhibition differentially control the dynamic range of pyramidal cells
12:30 pm	Lunch
2:00 pm	Session 6: Cortical Computation - 1 Chair: Alex Thomson
2:00 pm	Charles F. Stevens, Salk Institute Computations in visual cortex
2:30 pm	Michael Shadlen, University of Washington, School of Medicine Circuits in context
3:00 pm	Rafael Yuste , HHMI/Columbia University <i>The cortex as a distributed network of linear integrators</i>

3:30 pm	Break
4:00 pm	Poster Session 2
6:00 pm	Reception
7:00 pm	Dinner
8:00 pm	Session 7: Cortical Computation - 2 Chair: Alex Thomson
8:00 pm	Larry F. Abbott, Columbia University College of Physicians & Surgeons Cortical circuits as model builders
8:30 pm	Haim Sompolinsky, The Hebrew University Computational roles for generic cortical circuits
9:00 pm	Misha Tsodyks, Weizmann Institute of Science Population spikes in a model of primary auditory cortex

Wednesday April 1st

7:30 am	Breakfast
9:00 am	Session 8: Cortical Plasticity Chair: Michael Shadlen
9:00 am	Michael Stryker , University of California, San Francisco Mechanisms of competitive interaction between inputs for the regulation of function in the visual cortex
9:30 am	David Fitzpatrick , Duke University Medical Center Imaging the experience-dependent emergence of functional circuits in visual cortex
10:00 am	Break
10:30 am	Roundtable 2: Is there a canonical cortical computation? Discussion Leaders: Larry Abbott and Michael Shadlen Comments: Charles Stevens, Haim Sompolinsky, Michael Stryker
12:30 pm	Lunch (take out boxes from servery available for those on first shuttle)
12:45 pm 1:30 pm 2:15 pm	First shuttle to Dulles Second shuttle to Dulles Last shuttle to Dulles