#### **Full Schedule**

#### Sunday March 8<sup>th</sup>

- 3:00 pm Check-in
- 6:00 pm Reception
- 7:00 pm Dinner
- 8:00 pm Keynote Address: Larry F. Abbott, Columbia University College of Physicians & Surgeons Issues in modeling C. elegans circuitry

## Monday March 9<sup>th</sup>

7:30 am	Breakfast
9:00 am	Session 1: Methods - Seeing and Controlling the Worm Chair: Shawn Lockery
9:00 am	<b>David H. Hall</b> , Albert Einstein College of Medicine Adding missing pieces to the C. elegans connectome
9:30 am	<b>Erik M. Jorgensen</b> , University of Utah To each according to need: Semi-automated reconstruction of the neuromuscular junctions in C. elegans
10:00 am	<b>Rex A. Kerr</b> , Janelia Farm Research Campus/HHMI <i>Whole brain calcium imaging with plane illumination</i>
10:30 am	Break
11:00 am	Session 1 (continued): Methods - Seeing and Controlling the Worm Chair: Shawn Lockery
11:00 am	<b>William R. Schafer</b> , Medical Research Council <i>Mapping the behavioural phenotypes of genes and neurons</i>
11:30 am	Alexander Gottschalk, JWG University Optogenetic control of neural circuits to evoke or inhibit behaviours
12:00 pm	Session 2: Synapses and Receptors Chair: Cori Bargmann
12:00 pm	Janet E. Richmond, University of Illinois at Chicago Structure-function analysis of C. elegans tomosyn
12:30 pm	Lunch
1:00 pm	Tour (optional)
2:00 pm	Session 2 (continued): Synapses and Receptors Chair: Cori Bargmann
2:00 pm	Joshua M. Kaplan, Harvard Medical School Regulation of synaptic transmission in C. elegans

Neural Circuits and Behavior in C. elegans II: Towards the Ultimate Model

2:30 pm	<b>Andres Villu Maricq</b> , University of Utah Wnt signaling regulates surface expression of postsynaptic acetylcholine receptors
3:00 pm	<b>Yishi Jin</b> , University of California, San Diego ACR-2 receptor and its roles in locomotion circuit
3:30 pm	Break
4:00 pm	Poster Session 1
5:30 pm	Reception
6:30 pm	Dinner
7:30 pm	Session 3: Sexual Behavior Chair: Martin Chalfie
7:30 pm	<b>Douglas Portman</b> , University of Rochester Medical Center Sex and the single neuron: Diverse changes in C. elegans behavior arise
through	the sexual modification of core circuitry
8:00 pm	<b>Paul W. Sternberg</b> , California Institute of Technology/HHMI <i>Regulation of male mating behavior in C. elegans</i>
8:30 pm	Refreshments available at Bob's Pub

## Tuesday March 10<sup>th</sup>

7:30 am	Breakfast
9:00 am	Session 4: Endocrine Signaling Chair: Paul Sternberg
9:00 am	<b>Anne C. Hart</b> , Mass. General Hospital and Harvard Medical School <i>Notch signaling regulates adult behavior in C. elegans</i>
9:30 am	<b>Christine Li</b> , The City College of New York <i>The Role of FLP Neuropeptides on C. elegans behavior</i>
10:00 am	<b>Piali Sengupta</b> , Brandeis University <i>Pheromone signaling in C. elegans: Mechanisms and consequences</i>
10:30 am	Break and Group Photo
11:00 am	Session 5: Mechanosensation Chair: Rex Kerr
11:00 am	Martin Chalfie, Columbia University A protein-lipid complex transduces touch in C. elegans
11:30 am	<b>Miriam B. Goodman</b> , Stanford University <i>TRPV</i> channels are amplifiers, but not detectors of mechanical stimuli in <i>C. elegans nociceptor-like neurons</i>
12:00 pm	<b>Catharine H. Rankin</b> , University of British Columbia Genes and neural circuits involved in short- and long-tem memory for associative and non-associative learning
12:30 pm	Lunch
2:00 pm	Session 6: Spatial Orientation Chair: Leon Avery
2:00 pm	<b>Cori Bargmann</b> , Rockefeller University/HHMI Half a wiring diagram is better than none
2:30 pm	<b>Yuichi Iino</b> , The University of Tokyo Molecular and cellular mechanisms of salt chemotaxis learning in C. elegans
3:00 pm	<b>Ikue Mori</b> , Nagoya University, CREST-JST Components orchestrating the neural circuit for behavior

3:30 pm	Break
4:00 pm	Poster Session 2
5:30 pm	Reception
6:30 pm	Dinner
7:30 pm	Session 6 (continued): Spatial Orientation Chair: Leon Avery
7:30 pm	Aravi Samuel, Harvard University How worms navigate
8:00 pm	Mario de Bono, Medical Research Council Evolutionary sculpting of foraging behavior in C. elegans
8:30 pm	<b>Jon Pierce-Shimomura</b> , University of Texas at Austin Analysis of the switch between crawling and swimming locomotory patterns in C. elegans
9:00 pm	Refreshments available at Bob's Pub

# Wednesday March 11<sup>th</sup>

7:30 am	Breakfast
9:00 am	Session 9: Modeling Chair: Rex Kerr
9:00 am	<b>Dmitri Chklovskii</b> , Howard Hughes Medical Institute <i>A biomechanical theory of C. elegans locomotion</i>
9:30 am	<b>Shawn Lockery</b> , University of Oregon A stochastic model of locomotory state switching
10:00 am	Break
10:30 am	Plenary workshop:
	The Ultimate Model: What is it and how do we get there?
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