Conference on Neural Dynamics and Computation  
held in honor of John Rinzel  

June 13-14  
Courant Institute for Mathematical Sciences

Conference Schedule

Saturday, June 13

9:15-9:30  Opening remarks

9:30-10:00  Charles Peskin  
Spontaneous Transitions between Synchrony and Asynchrony in a Network of Discrete-State Neurons with Stochastic Synaptic Transmission.

10:00-10:30  Victoria Booth  
Simulating microinjection of neurotransmitter agonists and antagonists in a novel model of the sleep-wake regulatory network.

10:30-11:00  Coffee Break

11:00-11:30  Shihab Shamma  
Auditory perception through the cortical analysis of spectrotemporal modulations

11:30-12:00  Dan Sanes  
Exploiting development to evaluate sensory coding mechanisms

12:00-12:30  Catherine Carr  
On Hearing with More Than One Ear: Lessons from Evolution
12:30-2:30  Lunch Break
2:30-3:00  Michael O’Donovan
          TBA

3:00-3:30  David Terman
          A mathematical model of the sleep/wake cycle

3:30-4:00  Joseph Keller
          Sound source location by barn owls

4:00-6:10  Poster session and reception

6:30-8:30  Banquet Dinner at the NYU Torch Club

Sunday, June 14

9:00-9:30  Coffee and light continental breakfast

9:30-10:00  Bard Ermentrout
            Some reflections on waves

10:00-10:30  Arthur Sherman
             What Do We Talk About When We Talk About Cooperativity of Synaptic Release?

10:30-11:00  Coffee Break

11:00-11:30  Wilfrid Rall
              TBA

11:30-12:00  Sharon Crook
              Motoneuron model of self-sustained firing after spinal cord injury

12:00-12:30  Leo van Hemmen
              Theory of internally coupled ears – the ICE model: How lizards and birds provide us with a novel category of hearing
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<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tr>
<td>12:30-2:30</td>
<td>Lunch Break</td>
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<tr>
<td>2:30-3:00</td>
<td>Jack Cowan</td>
<td>Statistical Mechanics of Large-Scale Brain Activity</td>
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<td>3:00-3:30</td>
<td>Xiao-Jing Wang</td>
<td>Reconciling coherent oscillation with rate modulation of irregular spiking activity in selective attention; gamma-range synchronization between sensory and executive cortical circuits</td>
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<td>3:30-4:00</td>
<td>David McLaughlin</td>
<td>Representing Neuronal Dynamics through Coarse-Grained Event-Trees</td>
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