

Kavli Institute at Cornell for Nanoscale Science
and National Nanotechnology Infrastructure Network
Symposium on Computing Challenges

October 12 - 14, 2008
Cornell University
Ithaca, NY

last updated 10.09.08

SUNDAY, October 12

5:00 pm – 9:30 pm	Registration	Statler Hotel, Terrace Lounge
5:00 pm – 6:00 pm	Reception	
6:00 pm – 7:30 pm	Buffet Dinner	
7:30 pm – 7:35 pm	Robert C. Richardson (Director, Kavli Institute at Cornell) Welcoming Remarks	
7:35 pm – 7:45 pm	Sandip Tiwari (Cornell University; NNIN) Charge to the Participants	

Session 1 *Perspectives: Neuroscience*

7:45 pm – 8:30 pm	Olaf Sporns (Indiana University, Bloomington) Brain Networks for Efficient Computation
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MONDAY, October 13

8:00 am – 9:00 am	Ongoing Registration and Breakfast	ILR Conference Center, 423
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Session 2 *Perspectives: Physics and Mathematics* *ILR Conference Center, 423*
Session Chair: Paul Ginsparg, Computer Science, Cornell

9:00 am – 9:15 am	Introduction	
9:15 am – 10:00 am	Marc Mézard (CNRS-Université Paris Sud) Message Passing Strategies	
10:00 am – 10:45 am	Hans Mooij (Delft University of Technology; Kavli Institute) Quantum Computation with Nanocircuits	
10:45 am – 11:15 am	Break	
11:15 am – 12:00 pm	Steven Johnson (Applied Mathematics, MIT) FFTW & Software Architectures to Mitigate Hardware Complexity	

12:00 pm – 1:15 pm	Lunch	ILR Conference Center, 423
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1:30 pm – 4:00 pm *Breakout Sessions (Continuous Refreshments)* *Rooms 423, 225, 229*

Breakout Session 1 with Marc Mézard <i>Session Chair: Bart Selman, Computer Science, Cornell</i>	Room 423
Breakout Session 2 with Hans Mooij <i>Session Chair: Dan Ralph, Physics, Cornell</i>	Room 225
Breakout Session 3 with Steven Johnson <i>Session Chair: Charles Van Loan, Computer Science, Cornell</i>	Room 229

4:00 pm – 5:00 pm *Report Out* *ILR Conference Center, 423*

<i>Report Out Chair: Sandip Tiwari, ECE, Cornell</i>	Room 423
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5:30 pm - 5:45 pm	Bus loads and departs for Wagner Winery Dinner	ILR parking lot
6:45 pm – 9:00 pm	Dinner	Wagner Winery, Seneca Lake
10:00 PM	Return to ILR Conference Center	

TUESDAY, October 14

8:00 am – 9:00 am	Breakfast	
Session 3	Perspectives: Computer Science and Engineering	ILR Conference Center, 423
	<i>Session Chair: Rajit Manohar, Electrical and Computer Science, Cornell</i>	
9:00 am – 9:45 am	Jon Kleinberg (Cornell) Information Dynamics and Network Structure	
9:45 am – 10:30 am	Roman Lysecky (Arizona) Autonomously Adaptive Computing	
10:30 am – 11:00 am	Break	
11:00 am – 11:45 am	Ravi Nair (IBM) Approximate Computing	
11:45 am – 12:00 pm	Walk to Big Red Barn	
12:00 am – 1:45 pm	Lunch	Picnic Lunch at Big Red Barn
2:00 pm – 4:00 pm	Breakout Sessions (Continuous Refreshments)	Rooms 423, 225, 229
	Breakout Session 1 with Jon Kleinberg <i>Session Chair: Rajit Manohar, ECE, Cornell</i>	Room 423
	Breakout Session 2 with Roman Lysecky <i>Session Chair: Al Molnar, ECE, Cornell</i>	Room 225
	Breakout Session 3 with Ravi Nair <i>Session Chair: José Martínez, ECE, Cornell</i>	Room 229
4:00 pm – 5:00 pm	Report Out	ILR Conference Center, 423
	<i>Report Out Chair: Sandip Tiwari, ECE, Cornell</i>	Room 423
5:00 pm – 6:30 pm	Closing Reception <i>Dinner on your own, if staying in Ithaca</i>	ILR Conference Center, 423