	Schedule for Workshop on Natural Environments Tasks and Intelligence
Friday, April 9th	
	8:30 - 9:15 AM
	Check-in
	Opening Remarks
	9:15 AM
	Welcome: Bill Geisler
	Natural Systems Analysis
	9:30 AM
	Wilson Geisler
	Scene statistics and ideal observers can help us understand neural encoding and decoding
	10:10 AM
	Mandyam Srinivasan
	Visual information processing in honeybee navigation
	10:50 - 11:20 AM
	Break
	11:20 AM
	David Field
	Efficient coding and biological plausibility: Is the belief in a "blank state" implied by our models?
	12:00 PM
	Discussion: Dana Ballard
	12:30 - 1:30 PM
	Lunch
	Encoding and Decoding of Natural Auditory Signals
	1:30 PM
	Robert Liu
	Auditory cortical coding in a natural communication context
	2:10 PM
	George Pollak
	Dissecting the auditory system with in vivo whole cell recordings
	2:50 - 3:20 PM
	Break
	3:20 PM
	Shihab Shamma
	Cortical mechanisms to navigate complex auditory scenes

	4:00 PM
	Michael Lewicki
	Learning structures in natural sounds
	4:40 PM
	Discussion: Ila Fiete
	5:10 PM
	Reception: Patio
Saturday, April 10th	
	Population Coding of Visual Signals
	9:00 AM
	EJ Chichilnisky
	The retinal ganglion cell receptive field at the elementary resolution of single cones
	9:40 AM
	Eyal Seidemann
	Neural population coding in the primate visual cortex
	10:20 - 11:10 AM
	Break
	11:10 AM
	Matteo Carandini
	Regimes of operation in visual cortex
	11:50 AM
	Pascal Fries
	Routing and computing with neuronal (gamma-band) synchronization
	12:30 PM
	Discussion: Jonathan Pillow
	1:00 - 2:00 PM
	Lunch
	Poster Session
	2:00 - 4:00 PM
	Lab Tours
	4:00 - 5:30 PM
	Virtual Reality Lab
	Seidemann Lab
	Motion and Depth Lab

Sunday, April 11th	
	Computation in Natural Tasks: Perceptual Decision
	9:00 AM
	Jim Dicarlo
	Untangling object recognition: The convergence of systems neuroscience and computer vision
	9:40 AM
	Bruce Cumming
	Nature of decision related activity in sensory neurons
	10:20 - 11:10 AM
	Break
	11:10 AM
	Paul Glimcher
	Cortical normalization models of choice cortex: Area LIP
	11:50 AM
	Daeyeol Lee
	Prefrontal cortex and decision making
	12:30 -1:00 PM
	Discussion: Alex Huk
	1:00 - 2:00 PM
	Lunch
	Computation in Natural Tasks: Actions
	2:00 PM
	Daniel Wolpert
	Structures and statistics in sensorimotor control
	2:40 PM
	Bill Warren
	Behavioral dynamics of visually-guided locomotion
	3:20 PM
	Paul Schrater
	Planning for uncertainty in action tasks - exploration and compensation
	4:20 PM
	Discussion: Mary Hayhoe
	Concluding Remarks