

THIRTY-SIXTH ANNUAL INTERDISCIPLINARY CONFERENCE

Teton Village, Jackson Hole, Wyoming

January 23 – January 28, 2011

Organizer: George Sperling, University of California, Irvine

Proceedings

Sunday, January 23: 5:00 - 5:40 pm *****Reception******Registration, Snacks, and Refreshments.*

Sunday, January 23: 5:40 - 8:00 pm **Sunday Night Miscellany**

Rich Shiffrin, *Indiana U.* Infomercial on back-country skiing.

Erica Okada, *U. Hawaii.* The individual and social benefits of green products.

Peter Dixon, *U. Alberta.* Dyadic digit oscillation, or finger wiggling with a partner.

David Huber, *UC San Diego.* Adaptation to the temporal statistics of spatial cueing.

Nicholas Port, *Indiana U.* Fixation, saccade, and pursuit ocular-motor performance of Junior Olympic and Indiana University athletes.

Monday, January 24: 4:00 – 8:00 pm **Early Vision**

Tom Busey, *Indiana U.* Features and strategies used by latent print examiners.

Matthias Scheutz, *Indiana U.* Human eye gaze patterns and visual spatial attention in human-human and human-robot interaction.

Jeff Mulligan, *NASA Ames Research Center.* Assessing visual delays using pupil oscillations.

Ben Backus, *SUNY.* Proposal for a new treatment of strabismus.

Zhong-Lin Lu, *USC.* Mechanisms of perceptual learning of adults with amblyopia.

Mark Frye, *UCLA.* Motion perception in drosophila.

Tuesday, January 25: 4:00 – 8:00 pm **Brain Imaging**

Paul Sajda, *Columbia U.* Cortically-coupled computer vision: A closed-loop BCI for image search.

Anna Manelis, *Carnegie Mellon U.* Combining fMRI and eye-tracking to understand contextual cueing in visual search.

Farran Briggs, *UC Davis.* Spatial attention modulates synaptic efficacy in the geniculocortical circuit.

Xiaoping Hu, *Emory U.* Neuroimaging investigation of neural effects of prenatal cocaine exposure.

Bosco Tjan, *USC.* Isoeccentric organization of spontaneous activity in the human visual cortex exists in normal but not in blind subjects.

Rosie Cowell, *UC San Diego.* Simulating memory: Do amnesics forget because old things look new, or because new things look old?

Wednesday, January 26: 4:00 – 8:00 pm **Perception and Search**

Marcus Watson, *U. British Columbia.* Similar letters, similar colours: Analogical mapping in grapheme-colour synaesthesia.

Del Lindsey, *Ohio State U.* Color-naming motifs in English and the World Color Survey.

Wolfgang Pauli, *U. Co. Boulder.* Separable contributions to calculating outcome expectancies - A biologically plausible neural network model.

Rich Shiffrin, *Indiana U.* A guided search model for visual search.

Barbara Doshier, *UC Irvine.* Precision of representations in spatially cued attention.

George Sperling, *UC Irvine.* Deriving a perceptual motion-processing algorithm from the perceived motion of plaids.

Thursday, January 27: 4:00 – 8:00 pm **Information Processing, Perception**

Holly Jimison, *Oregon Health & Science U.* Evaluating approaches to cognitive health interventions.

Misha Pavel, *Oregon Health & Science U.* Smart health and well-being and the importance of utility in the detection of rare events.

Michael Lee, *UC Irvine.* Combining knowledge through competition.

John Antrobus, *CUNY.* A connectionist word recognition model of implicit priming of the target and foils.

Roger Ratcliff, *Ohio State U.* Modeling confidence and response time.

Gail McKoon, *Ohio State U.* Reading and the diffusion model: How do we measure inferences?

**Brief Business Meeting

Friday, January 28: 4:00 – 8:00 pm **Perceptual and Cognitive Development**

Danielle McNamara, *U. Memphis.* Capturing coherence in writing.

Janos Posfai, *New England Biolabs, Inc.* Autism hypothesis.

Shaw Ketels, *U. Co. Boulder.* The anchoring heuristic in intelligence integration: A bias in need of de-biasing.

Angela Brown, *Ohio State U.* The measurement of infant contrast sensitivity.

Kerry Jordan, *Utah State U.* Numerical cognition in children and coyotes.

Patricia Cheng, *UCLA.* Are preschoolers Humean or Kantian reasoners?

* * * 8:20pm Banquet * * *

Attendees

Jacob Aptekar, *UCLA*

Lynne Reder, *CMU*

Jonye Feldman, *Los Angeles*

Izidor Gertner, *CUNY*

Eric Mais, *U. Hawaii*

Tim McNamara, *Vanderbilt U.*

Bennet Murdock, *U. Toronto*

Katherine Phelps, *U. Co. Boulder*