



Friday, May 12 *Cascade Room*

4:30 pm Welcome and opening remarks by Scott Allen (University of Lethbridge)

Please register with Peter Dixon if you have not already done so (\$70 for faculty, \$25 for students and postdoctoral fellows).

4:45 pm **Douglas J. K. Mewhort** (Queen's University)

A new model for retrieval from memory: Iterative resonance applied to recognition memory and serial reaction-time tasks

I will sketch a new theory of retrieval based on a resonance metaphor and show that it captures data from recognition memory and from serial reaction-time tasks. According to the model, when a retrieval probe is presented, it resonates with items stored in memory in proportion to their similarity to the probe, and an echo of the resonant information is formed. If the echo does not provide clear evidence, further comparisons are calculated. In the subsequent comparisons, information taken from memory is sharpened, and the process cycles until clear evidence is obtained. RT is a function of the number of iterations required to provide the necessary evidence. Using the model, I will show, by simulation, that complex rule-like behaviour can be produced from a structured record of events without applying formal rules.

6:00 pm *Dinner Break*

8:00-11:00 pm **Reception & Poster Session I** *Cascade Room*

Sponsored by the *Canadian Journal of Experimental Psychology* and the Canadian Psychological Association.



Saturday, May 14 *Cascade Room*

8:30 am Coffee, tea, juice, and pastries

Please register with Peter Dixon if you have not already done so.

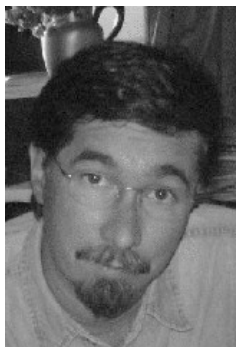


9:00 am **Bruce Milliken** (McMaster University)

Attending, ignoring, and the immediate priming method

Studies of selective attention focus on processes that allow us to attend to some stimuli and ignore others. The processing fate of ignored stimuli is regarded as a particularly important issue in this field. The immediate priming method is one of many that have been used to address this issue. The general research strategy that accompanies use of this method is that the processing consequences of attending or ignoring a prime ought to be revealed in performance for an identical (or related) target stimulus. As simple as this research strategy sounds, it has a complicating feature that is often overlooked: inferences about attention in such studies hinge entirely on our understanding about how present and past are integrated in human performance. My talk will focus on research aimed at these integration issues, with an emphasis on how attention in the present shapes the integration of previous and current experience.

10:30 am Coffee, tea, & juice



11:00 am **Pierre Jolicoeur** (Université de Montréal)

Electrophysiological indices of visual spatial attention and visual short-term memory

Visual event-related potentials (ERPs) provide powerful tools to study the mechanisms mediating the deployment of visual spatial attention, visual short-term memory, and interactions between spatial attention and central attention. In this talk I will summarize several sets of experiments focusing on the N2pc ERP component as a moment-to-moment index of the deployment of visual spatial attention. These studies explore how central attentional loads created in the context of paradigms used to study the attentional blink (AB) and the psychological refractory period (PRP) systematically modulate the N2pc, and presumably the ability to control visual spatial attention. Spatial attention is important for the selection of visual stimuli that are to be processed by later capacity-limited mechanisms. Visual short-term memory provides a temporary store for objects selected for further processing that has very limited storage capacity (about 3 or 4 objects). I will also discuss recent work involving a later component, which we call the SPCN (sustained posterior contralateral negativity), that appears to be a specific index of neural activity mediating the maintenance of information in visual short-term memory, and describe several experiments in which this activity is sharply affected by concurrent central processing demands.

12:30 pm *Lunch break*

2:00 pm

Steve Joordens (University of Toronto at Scarborough)

Playing with the characters and characteristics of negative priming: Task variants, scientific deviants, and what they tell us about attention

I am not an expert on attention. Rather, I am someone with the good fortune to conduct investigations and share discussions with others who are experts in this area. The empirical context for many of these interactions has involved alterations of procedures typically used to demonstrate negative priming effects; alterations designed to examine the link between negative priming and selective attention. My talk will trace these social and empirical interactions, presenting bits of work driven largely by scientific colleagues including Bruce Milliken (Milliken & Joordens, 1996; Milliken, Joordens, Merikle & Seiffert, 1998), Penny MacDonald (MacDonald, Joordens & Seergobin, 1999; MacDonald & Joordens, 2000), and Tomas Spalek (Joordens, Batencourt & Spalek, in press; Spalek & Joordens, in preparation). The talk will highlight the advantages and disadvantages of altering traditional procedures, and will conclude with my current opinion with respect to how negative priming effects are related to selective attention, selective responding, and the general notion of selection for action.

3:30 pm

Coffee, tea, juice, cake, & the traditional picture

4:00 pm

Tom Spalek (Simon Fraser University)

Attention, what it is and what it isn't: My suggestion as to what it is

What are the rules that govern the redeployment of attention to targets presented sequentially across space? In providing an initial answer to this question, I will draw from the conceptual and practical work that has been done in the field of *inhibition of return* (IOR). IOR is the finding that response times are slower to a target presented at a previously cued location.

In the predominant view, IOR has been attributed to some form of inhibitory mechanism acting on the previously cued location. This inhibition must be overcome before redeploying attention to that location. I will present evidence consistent with the view that IOR is not a unitary phenomenon based on inhibition. Rather, the magnitude of IOR is influenced by expectations that the observer has developed from everyday interactions with the physical world. These expectations include directional momentum and directional reading biases.

Attentional redeployment also governs accuracy of target identification in another perceptual phenomenon known as *object-substitution masking*. I will illustrate how the deployment of spatial attention plays a critical role in this type of masking. Furthermore, I will illustrate how the perceptual processes that mediate object-substitution masking are also affected by expectations based on learned regularities with the physical world.

5:30 pm

Closing remarks by John Vokey (University of Lethbridge)

6:00-8:00 pm

Reception & Poster Session II Cascade Room

Sponsored by the *Canadian Journal of Experimental Psychology* and the Canadian Psychological Association.

Poster Session I
Friday 8:00 - 11:00 pm

Sponsored by the *Canadian Journal of Experimental Psychology* and the Canadian Psychological Association.

1. **Addend familiarity and strategy choice**
Arron Metcalfe & Jamie I. D. Campbell
University of Saskatchewan
2. **Putting the other-race effect in context**
Michelle Corcoran & John R. Vokey
University of Lethbridge
3. **What's the difference between a chicken: An attributional account of memory for nonsense movement**
Rehman Mulji, Geoffrey Palmer, Cody Tousignant, & Bruce Whittlesea
Simon Fraser University
4. **Effects of eye movements on unpleasant autobiographical memories**
Raymond W. Gunter & Glen E. Bodner
University of Calgary
5. **Assessing the accuracy of eyewitness identification**
Jennifer L. Short & J. Thomas Dalby
University of Calgary
6. **False memories or false responses: A variant of the DRM effect**
Jolene Kinley & John R. Vokey
University of Lethbridge
7. **“If I formed an image of myself, I would’ve remembered it:” Self-referential imagery attenuates the DRM illusion**
Tanjeem Azad, Raymond W. Gunter, & Glen E. Bodner
University of Calgary
8. **The effects of JOLs and self-paced training on the mirror effect**
Geoffrey J. Palmer, Yifat Faran, & Bruce A. Whittlesea
Simon Fraser University
9. **Training strategies and the mirror effect: Breaking the mirror is not seven years of bad luck**
Yifat Faran, Geoffrey J. Palmer, & Bruce A. Whittlesea
Simon Fraser University
10. **Mnemonics for prospective memory**
Daniel Siu & Peter Graf
University of British Columbia
11. **Is retrieval-induced forgetting in arithmetic cue-dependent?**
Natasha Pandila & Thomas Phenix
University of Regina
12. **Reality source monitoring in children with and without autism**
Carly McMorris & Suzanne Hala
University of Calgary
13. **Attentional demands of navigation versus data entry tasks in handheld devices**
Hiroe Li & Peter Graf
University of British Columbia
14. **Models of accuracy**
Peter Dixon
University of Alberta

Poster Session II

Saturday 6:00 - 8:00 pm

Sponsored by the *Canadian Journal of Experimental Psychology* and the Canadian Psychological Association.

15. **Bimanual interference is task specific and occurs at multiple levels of processing**
Sukhvinder Obhi & Melvyn A. Goodale
Wilfrid Laurier University
16. **Mapping the dynamic nature of the “controlled” and “automatic” processing in the brain**
Jonathan Fugelsang & Kevin Dunbar
University of Waterloo
17. **Representing semantics: Neural correlates of concreteness and ambiguity**
I. C. Hargreaves, L. C. Henry, P. M. Pexman, J. D. Edwards, & B. Goodyear
University of Calgary
18. **Is semantic processing obligatory in word naming?: A structural equation model using fMRI data**
Amabilis Harrison, Gordon Sarty, & Ron Borowsky
University of Saskatchewan
19. **“That was a great play!”: Children’s processing of verbal irony**
Emma Climie & Penny Pexman
University of Calgary
20. **7-to-11-year-olds’ production of ironic criticisms**
Juanita Whalen & Penny M. Pexman
University of Calgary
21. **The influence of task demands and homophone type on homophone effects**
Linda R. Kerswell, Paul D. Siakaluk, Penny M. Pexman, Christopher R. Sears, & William J. Owen
University of Northern British Columbia
22. **Distinguishing between accounts of masked response priming using a parity task**
Andreas Breuer & Glen E. Bodner
University of Calgary
23. **Embodied word recognition: The effects of ease of body-object interaction**
Laura Aguilera, Paul D. Siakaluk, Penny M. Pexman, William J. Owen, & Christopher R. Sears
University of Northern British Columbia
24. **Insular sensitivity in basic reading processes**
Jacqueline Cummine, R. Borowsky, & G. Sarty
University of Saskatchewan
25. **The influence of specificity on causal reasoning**
Andrea Nicole Burnett, Jonathan A. Fugelsang, William J. Owen, & Paul D. Siakaluk
University of Northern British Columbia
26. **Improving the confidence-accuracy relationship in deductive reasoning**
Jamie Prowse & Valerie A. Thompson
University of Saskatchewan
27. **Influence of stimulus repetition on the SNARC effect**
Shawn Tan Chin Yang & Peter Dixon
University of Alberta
28. **The relationship between semantic and response effects in the Stroop task**
Lisa McCormick, Stacey McHenry, & Jim Cheesman
University of Saskatchewan

BASICS 2006 Registrants

Laura Aguilera, University of Northern British Columbia
 Scott Allen, University of Lethbridge
 Tanjeem Azad, University of Calgary
 Glen Bodner, University of Calgary
 Andreas Breuer, University of Calgary
 Lee Brooks, McMaster University
 Alisha Brown, University of Calgary
 Andrea Nicole Burnett, University of Northern British Columbia
 Jamie Campbell, University of Saskatchewan
 Emma Climie, University of Calgary
 Michelle A. Corcoran, University of Lethbridge
 Jacqueline Cummine, University of Saskatchewan
 Peter Dixon, University of Alberta
 Brian Duffels, University of Alberta
 Yifat Faran, Simon Fraser University
 Jonathan Fugelsang, University of Waterloo
 Melanie Glenwright, University of Calgary
 Raymond W. Gunter, University of Calgary
 Ian Hargreaves, University of Calgary
 Amabilis Harrison, University of Saskatchewan
 Luke Henry, University of Calgary
 Ashley Jespersen, University of Lethbridge
 Pierre Jolicoeur, University of Montreal
 Steve Joordens, University of Toronto
 Linda R. Kerswell, University of Northern British Columbia
 Jolene Kinley, University of Lethbridge
 Anna Kjellqvist, University of Sköude
 Gregory P. Krätzig, Campion College at the University of Regina
 Hiroe Li, University of British Columbia
 Cheryl Macelli, University of Calgary
 Tess Macelli
 Lila McCormick, University of Saskatchewan
 Carly McMorris, University of Calgary
 Arron Metcalfe, University of Saskatchewan
 Douglas J. K. Mewhort, Queen's University
 Bruce Milliken, McMaster University
 Gail Moroschan, University of Alberta
 Rehman Mulji, Simon Fraser University
 Sukhvinder S. Obhi, Wilfrid Laurier University
 William J. Owen, University of Northern British Columbia
 Geoffrey J. Palmer, Simon Fraser University
 Natasha Pandila, University of Regina
 Penny Pexman, University of Calgary
 Thomas Phenix, University of Regina
 Jamie Prowse, University of Saskatchewan
 Lenore Read, University of Alberta
 Valerie San Juan, University of Calgary
 Chris Sears, University of Calgary
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 Tom Spalek, Simon Fraser University
 Valerie Thompson, University of Saskatchewan
 Megan Torry, University of Lethbridge
 Cody Tousignant, Simon Fraser University
 John Vokey, University of Lethbridge
 Juanita Whalen, University of Calgary
 Bruce W. A. Whittlesea, Simon Fraser University
 Shawn Tan Chin Yang, University of Alberta

Acknowledgments

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