

---

## **BBCS 2006 June 22-24 GENERAL INFORMATION**

---

### **TRANSPORTATION**

A taxi from the airport to downtown hotels will cost approximately \$25. Some Saskatoon taxi companies: (306) 242-1221, (306) 653-2222. Information about Saskatoon transit services can be found by calling 975-3100.

### **PARKING**

Parking in the Stadium Parkade and Lot 4 (located off North Road) are \$2 maximum per day. Place Riel has no daily max (weekends and holidays are \$2 max.) The Agriculture Building underground parking has a \$3 daily maximum. Parking meters are free on Saturday.

### **REGISTRATION**

Registration on campus will begin Thursday June 22 from 3:30 to 7:30 p.m. during the reception at Louis' Pub. There will also be a registration desk in the Arts lobby during refreshment breaks. All delegates should check in at the registration desk upon their arrival, regardless of whether an early registration was submitted, in order to receive a copy of the conference program, a receipt for the registration fee, a pre-printed name badge, and other items or pertinent information.

### **MEETING ROOMS**

All conference activities will take place on campus at the University of Saskatchewan. Registration and the reception on Thursday will take place at Louis' Pub. All of the talk sessions will be held in the Arts building. The poster session, lunch breaks, and the awards banquet will all be held in Marquis Hall.

### **LUNCH**

Lunch on Friday and Saturday will be served from 12:00 – 1:30 p.m. in Marquis Hall. There is no charge for lunch if you present your BBCS name tag.

### **SMOKING**

Smoking is not permitted in any building on the campus.

### **HOSPITALITY**

A reception will be held on Thursday, from 3:30 to 7:30 p.m., at Louis Pub (cash bar). There will also be a cash bar on Friday, between 5:00 and 7:30 p.m., in Marquis Hall during the poster session. The awards banquet and dinner will be held on Saturday, starting at 7:00 p.m., in Marquis Hall. There is no charge for the banquet if you present your BBCS name tag.

### **THE PROGRAM**

The program contains 123 poster presentations, 66 oral presentations, 7 symposia, and 3 CIHR/NSERC workshops. In addition, there is the Hebb Award Lecture (Shepard Siegel), Student Awards, Tees Leadership Award (Lorraine Allan), and Science Communication Award (Bob McDonald).

### **POSTER SESSION**

The poster session will be held in Marquis Hall. The poster session is from 5:00 to 7:30 p.m. on Friday. Posters can be set up starting at 1:00 p.m.

---

## CONFERENCE CREDITS

### Organizing Committee

Jamie Campbell, Ron Borowsky, Jim Cheesman, Lorin Elias, Lisa Kalynchuk, Debbie Kelly, Gord Sarty, Deb Saucier, Valerie Thompson, Scott Bell, Gord Binsted

### Chief Administrative Assistant

Jody Shynkaruk

### Student Assistants

Erin Beatty, Nicole Robert, Arron Metcalfe, Jamie Prowse, Jacqueline Cummine, Lila McCormick, Melanie Brockman

### Student Awards Committee

Lisa Kalynchuk (Co-chair), Valerie Thompson (Co-chair), Katherine Arbuthnott, Jim Cheesman, Clayton Dickson, Debbie Kelly, Doug Mewhort, Bruce Milliken

### Web Site

Trudy Shore, MohSho Interactive Multimedia ([www.mohsho.com](http://www.mohsho.com)), and Jennifer Hadley

### Plaques

Vince DiLollo, Allison Sekuler

## FINANCIAL SUPPORT

University of Saskatchewan  
Department of Psychology  
College of Arts and Science  
College of Graduate Studies  
College of Kinesiology  
Conference Fund  
Research Services  
University of Regina  
Campion College  
Department of Psychology  
Saskatchewan Health Research Foundation  
Pearson Education Press

## CANADIAN SOCIETY FOR BRAIN BEHAVIOUR AND COGNITIVE SCIENCE

## SOCIÉTÉ CANADIENNE DES SCIENCES DU CERVEAU, DU COMPORTEMENT ET DE LA COGNITION

### 2005-2006 Executive

<b>President</b>	Jamie Campbell
<b>Past-president</b>	Murray Singer
<b>President-elect</b>	Carolyn Harley
<b>Secretary-Treasurer</b>	Lorraine Allan

### Members-at-large:

Bruce Milliken  
Isabelle Peretz  
Doug Mewhort

### 2006-2007 Executive

<b>President</b>	Carolyn Harley
<b>Past-president</b>	Jamie Campbell
<b>President-elect</b>	Doug Mewhort
<b>Secretary-Treasurer</b>	Lorraine Allan

### Members-at-large:

Peter Graf  
Lisa Kalynchuk  
Isabelle Peretz

### BBCS WEBSITE

<http://www.csbbcs.org/>

### CONFERENCE WEB SITE

<http://www.csbbcs.org/2006>



---

# TABLE OF CONTENTS

<b>GENERAL INFORMATION.....</b>	<b>1</b>
<b>CONFERENCE CREDITS.....</b>	<b>2</b>
<b>CONDENSED PROGRAM.....</b>	<b>4</b>
<b>SHORT PROGRAM</b>	
<b>Friday June 23<sup>rd</sup> Paper Sessions.....</b>	<b>5</b>
<b>The Donald O. Hebb Distinguished Contribution Award.....</b>	<b>8</b>
<b>Friday June 23<sup>rd</sup> Poster Session.....</b>	<b>9</b>
<b>Saturday June 24<sup>th</sup> Paper Sessions.....</b>	<b>14</b>
<b>NSERC and CIHR Workshops.....</b>	<b>17</b>
<b>The Awards Presentations and Banquet.....</b>	<b>17</b>
<b>LONG PROGRAM</b>	
<b>Friday June 23<sup>rd</sup> Paper Sessions.....</b>	<b>18</b>
<b>Friday June 23<sup>rd</sup> Poster Session.....</b>	<b>27</b>
<b>Saturday June 24<sup>th</sup> Paper Sessions.....</b>	<b>48</b>
<b>OTHER</b>	
<b>Author – Abstract Index .....</b>	<b>58</b>
<b>Notes.....</b>	<b>62</b>

**THURSDAY, JUNE 22**

3:30 - 7:30 Registration and Reception (H'or deurves and cash bar).....Louis' Pub

**FRIDAY, JUNE 23**

8:00 - 8:30 **Refreshments** (coffee, water, juice, fruit, yoghurt, etc.).....1<sup>st</sup> floor Arts Lobby

8:30 - 10:00 **Paper Session 1**

1.1 Visual Perception.....Arts 133

1.2 Animal Learning.....Arts 134

1.3 Symposium: Thirty Years Following Hemispherectomy.....Arts 241

10:00 - 10:30 **Refreshments** (coffee, water, juice).....1<sup>st</sup> & 2<sup>nd</sup> floor Arts Lobby

10:30 - 12:00 **Paper Session 2**

2.1 Comparative Cognition.....Arts 133

2.2 Reasoning.....Arts 134

2.3 Symposium: Experimental Psychology in the Real World.....Arts 241

12:00 - 1:30 **Lunch** (no charge if you present your BBCS name tag).....Marquis Hall

1:30 - 3:00 **Paper Session 3**

3.1 Attention.....Arts 133

3.2 Learning and Categorization.....Arts 134

3.3 Cognitive Neuroscience.....Arts 146

3.4 Symposium: Word Recognition: Testing the Models.....Arts 241

3:00 - 3:30 **Refreshments** (coffee, water, juice).....1<sup>st</sup> & 2<sup>nd</sup> floor Arts Lobby

3:30 - 4:45 **Donald O. Hebb Award Presentation and Lecture**.....Arts 241

5:00 - 7:30 **Poster Session** (H'or deurves, cash bar, live music).....Marquis Hall

**SATURDAY, JUNE 24**

8:00 - 8:30 **Refreshments** (coffee, water, juice, fruit, yoghurt, etc.).....1<sup>st</sup> floor Arts Lobby

8:30 - 10:00 **Paper Session 4**

4.1 Cognition and Performance.....Arts 133

4.2 Human Learning and Memory.....Arts 134

4.3 Symposium: Orienting and Navigation: A Comparative Perspective.....Arts 241

10:00 - 10:30 **Refreshments** (coffee, water, juice).....1<sup>st</sup> & 2<sup>nd</sup> floor Arts Lobby

10:30 - 12:00 **Paper Session 5**

5.1 Individual Differences in Cognition.....Arts 133

5.2 Spatial Memory.....Arts 134

5.3 Symposium: Mathematical Cognition.....Arts 146

5.4 Symposium: Object and Word Processing.....Arts 241

12:00 - 1:30 **Lunch** (no charge if you present your BBCS name tag).....Marquis Hall

1:30 - 3:00 **Paper Session 6**

6.1 Psycholinguistics.....Arts 133

6.2 Brain Plasticity.....Arts 134

6.3 Symposium: Mechanisms of Task Switching and Task Choice.....Arts 241

3:00 - 3:30 **Refreshments** (coffee, water, juice).....1<sup>st</sup> & 2<sup>nd</sup> floor Arts Lobby

3:30 - 5:00 **NSERC and CIHR Workshops**

7.1 CIHR (Dr. Nathalie Gendron).....Arts 133

7.2 NSERC Scholarships (Barbara Conway).....Arts 134

7.3 NSERC Discovery Grants (Paule Boulanger).....Arts 241

5:00 **Business Meeting**.....Arts 241

7:00 **Awards Banquet** (Student, Tees, Science Communication awards).....Marquis Hall  
(Banquet and dinner no charge with BBCS name tag)

**FRIDAY June 23**  
**PAPER SESSION 1**  
**(8:30 – 10:00 a.m.)**

**Arts 133**

**1.1 Visual Perception (Chair: Chris Oriet)**

1. CHRIS ORIET, *Psychology, University of Regina*, SARVIN GHODS-SHARIFI, *Psychology, University of British Columbia*, & TRAFTON DREW, *Psychology, University of Oregon*  
**A lot to learn about learning and masking**
2. RICK GURNSEY & RAMI NIJJAR, *Psychology, Concordia University*  
**No evidence that noise plays a role in motion illusions**
3. BEN BAUER, *Psychology, Trent University*  
**Which mean do we mean? Rapid extraction of summary values from visual displays**
4. HUGH WILSON, *Biology, York University*  
**Principal components and face rotation**
5. AMELIA HUNT, *Psychology, Harvard University*, CRAIG CHAPMAN, *Psychology, University of Western Ontario*, & ALAN KINGSTONE, *Psychology, University of British Columbia*  
**Distortions of space (and time?) during saccadic eye movements**

**Arts 134**

**1.2 Animal Learning (Chair: Donald Wilkie)**

6. DONALD WILKIE, *Psychology, University of British Columbia*  
**Time-of-day discrimination on a tower maze**
7. AMY CLIPPERTON & MARK COLE, *Huron University College, University of Western Ontario*  
**Landmark versus geometry cues in a foraging task by rats**
8. MICHAEL BOISVERT & DAVID SHERRY, *Psychology, University of Western Ontario*  
**Multiple interval timing by an invertebrate, the bumble bee: Performance on mixed FI schedules**
9. APRIL L. LUSSIER, *Psychology, University of Manitoba*, CARLA LAWSON, *Psychology, University of Winnipeg*, KENNETH W. JOHNS, *Psychology, University of Manitoba*, & DOUGLAS A. WILLIAMS, *Psychology, University of Winnipeg*  
**Contextual control of timed CRs**
10. HEATHER MACKENZIE, *Psychology, University of Winnipeg*, KENNETH W. JOHNS, *Psychology, University of Manitoba*, & DOUGLAS A. WILLIAMS, *Psychology, University of Winnipeg*  
**CS-US relation and CR timing**

**Arts 241**

**1.3 Symposium: Thirty Years Following Hemispherectomy**

Organizer: Margaret Crossley, *Psychology, University of Saskatchewan*

11. MARGARET CROSSLEY, *Psychology, University of Saskatchewan*, SHAWNDA LANTING, *Psychology, University of Saskatchewan*, JOCELYN POOCK, *Psychology, University of Saskatchewan*, & VANINA DAL BELLO-HAAS, *School of Physical Therapy, College of Medicine, University of Saskatchewan*  
**Neuropsychological test performance thirty years following right- vs. left-sided hemispherectomy**
12. JACQUELINE CUMMINE, *Psychology, University of Saskatchewan*, & FERN STOCKDALE WINDER, *Royal University Hospital*  
**Language in two hemispherectomy participants: Effects at the word and narrative level**
13. NEIL FOURNIER, LISA NEUVENHEIM, WENDIE MARKS, & MARGARET CROSSLEY, *Psychology, University of Saskatchewan*  
**Hemispheric asymmetry in the understanding of social cognition and development of theory of mind: A case study approach**
14. DEVON ANDERSEN, JENNIFER BURKITT, & DANIELLE DESORCEY, *Psychology, University of Saskatchewan*  
**Assessment of prosodic functioning in two hemispherectomy cases**

15. JASON P. WAGNER, KRISTIN L. CALVERLEY, & MARGARET CROSSLEY, *Psychology, University of Saskatchewan*  
**Perception of emotions in others after left and right hemispherectomy**

**PAPER SESSION 2  
 (10:30 – 12:00 p.m.)**

**Arts 133**

**2.1 Comparative Cognition (Chair: Debbie Kelly)**

16. MARC T. AVEY & CHRISTOPHER B. STURDY, *Psychology, University of Alberta*  
**A seasonal model of Black-Capped Chickadee vocal production**
17. IZABELA SZELEST & DEBBIE M. KELLY, *Psychology, University of Saskatchewan*  
**A right-sided visuospatial bias in Clark's Nutcrackers?**
18. DASON HARKER & DEBBIE M. KELLY, *Psychology, University of Saskatchewan*  
**Use of featural and geometric cues in a place finding task by Clark's Nutcrackers**
19. LAURIE BLOOMFIELD, TARA FARRELL, & CHRISTOPHER B. STURDY, *Psychology, University of Alberta*  
**Mechanisms of species classification in Black-capped and Mountain Chickadees**
20. EMILY GRAY, LAURIE BLOOMFIELD, & CHRISTOPHER B. STURDY, *Psychology, University of Alberta*  
**Species, sex, geographic and identity cues are contained in chickadee contact calls**

**Arts 134**

**2.2 Reasoning (Chair: Valerie Thompson)**

21. VALERIE THOMPSON, *Psychology, University of Saskatchewan*  
**What can we believe about belief-bias in reasoning?**
22. JONATHAN FUGELANG, *Psychology, University of Waterloo*, ADAM GREEN, *Psychology, Dartmouth College*, & KEVIN DUNBAR, *Psychology, Dartmouth College*  
**Interference, facilitation, and abstract thought**
23. JAMIE PROWSE & VALERIE THOMPSON, *Psychology, University of Saskatchewan*  
**Factors affecting the process of deductive reasoning**
24. EYVIND OHM, *School of Psychology, University of Plymouth, UK* & VALERIE THOMPSON, *Psychology, University of Saskatchewan*  
**Judging preferences with pragmatic conditionals**
25. ORLANDO ESPINO & CARLOS SANTAMARIA, *University of La Laguna, Tenerife, Spain*  
**True and false possibilities in propositional reasoning**

**Arts 241**

**2.3 Symposium: Experimental Psychology in the Real World**

Organizer: Ray Klein, *Dalhousie University*

26. CHRIS HERDMAN, *Psychology and Institute of Cognitive Science, Carleton University*, & KAMILLA JOHANNSDOTTIR, *Psychology, University of Akureyri, Iceland*  
**Working memory and driver situation awareness in automobiles: The role of spatial and phonological subsystems**
27. GENIVA LIU, SIMON GADBOIS, JOHN CHRISTIE, & RAYMOND KLEIN, *Psychology, Dalhousie University*  
**Real or fake? Detecting counterfeit Canadian bank notes**
28. JOHN CHRISTIE, *Psychiatry Department, Dalhousie University*  
**Investigating random behaviour for DRDC**
29. BILJANA STEVANOVSKI, *Psychology, Dalhousie University*, CHRISTOPHER BEBBINGTON, *Computer Science, Dalhousie University*, & RAYMOND KLEIN, *Psychology, Dalhousie University*  
**Where do people look when they look at money?**

**PAPER SESSION 3**  
**(1:30 – 3:00 p.m.)**

**Arts 133**

**3.1 Attention (Chair: Jim Cheesman)**

30. JENNIFER R. JARMAN & JANICE J. SNYDER, *Psychology, University of British Columbia*  
**Where is the inhibition in inhibition of return?**
31. HOSSEIN, SAMAVATYAN & CRAIG LETH-STEENSEN, *Psychology, Carleton University*  
**The time course of reconfiguration in task switching**
32. MIRIAM SCHELLENBERG, PAULINE PEARSON, & EVELYN SCHAEFER, *Psychology, University of Winnipeg*  
**More years, more time: The role of aging on change blindness**
33. MARK TOVEY, JUDITH RUNNELS, CHRIS HERDMAN, & MATT BROWN, *Institute of Cognitive Science, Carleton University*  
**Size of featural change in change blindness in faces**
34. MALISSA MAGOREL, PAULINE M. PEARSON, & EVELYN G. SCHAEFER, *University of Winnipeg*  
**To play or not to play? Implications of videogame playing on allocation of attention in change blindness**

**Arts 134**

**3.2 Learning and Categorization (Chair: Randy Jamieson)**

35. PAUL A. SZEGO & M. D. RUTHERFORD, *Department of Psychology, Neuroscience, and Behaviour, McMaster University*  
**Apparent gravity affects the perception of animacy**
36. MATTHEW J. C. CRUMP, JOAQUIN M. M. VAQUERO, & BRUCE MILLIKEN, *McMaster University*  
**Retrospective control and implicit learning: The role of task relevance**
37. JENNA L. CHEAL & M. D. RUTHERFORD, *Department of Psychology, Neuroscience, and Behaviour, McMaster University*  
**Defining the category boundaries between emotional facial expressions**
38. RANDY JAMIESON & LEE BROOKS, *Psychology, McMaster University*  
**Ecological considerations in category learning: Supported learning in the service-of-use**
39. PAULA MARENTETTE, *Department of Social Sciences, Augustana Faculty, University of Alberta*, NICOLE ROY, *Psychology, University of Alberta*, & ELENA NICOLADIS, *Psychology, University of Alberta*  
**The role of familiarity in arbitrary reference in preschool children**

**Arts 146**

**3.3 Cognitive Neuroscience (Chair: Kim Cornish)**

40. KIM CORNISH, *Educational Psychology/Neurology and Neurosurgery, McGill University*, & CARY KOGAN, *Psychology, University of Ottawa*  
**Trajectories of inhibitory control and selective working memory deficits in genetic disorders: The case of fragile X syndrome**
41. TETYANA BOGUTSKA, *York University*  
**Psychophysiological correlates of school readiness**
42. CHRISTOPHER STRIEMER, *Psychology, University of Waterloo*, ANNABELLE BLANGERO, *Espace et Action, INSERM Unit 534, Bron, France*, LAURE PISELLA, *Espace et Action, INSERM Unit 534, Bron, France*, YVES ROSSETTI, *Espace et Action, INSERM Unit 534, Bron, France*, & JAMES DANCKERT, *University of Waterloo*  
**Dorsal posterior parietal contributions to the control of visual attention: Evidence from optic ataxia**
43. BARBARA RUTHERFORD, MICHELINA LUDOVICI, & ANDREJ BRYGIN, *University of British Columbia*  
**Interhemispheric communication in lexical decision: A shift from conflict to suppression in a central task**
44. PHILIP ZEMAN, *Department of Electrical Engineering, University of Victoria*  
**Using ICA and correlation to measure multi-source synchrony**

## Arts 241

**3.4 Symposium: Word Recognition: Testing the Models**

Organizer: Penny Pexman, *University of Calgary*

45. CHRIS BLAIS & DEREK BESNER, *University of Waterloo*  
**Reading aloud: When the effect of stimulus quality distinguishes between cascaded and theoretical components**
46. PAUL SIAKALUK, *Psychology, University of Northern British Columbia*, LAURA AGUILERA, *Psychology, University of Northern British Columbia*, PENNY PEXMAN, *Psychology, University of Calgary*, WILLIAM OWEN, *Psychology, University of Northern British Columbia*, & CHRISTOPHER SEARS, *Psychology, University of Calgary*  
**Embodied word recognition: The effects of ease of body-object interaction**
47. CHRISTOPHER SEARS, *Psychology, University of Calgary*, MARIKO NAKAYAMA, *Psychology, University of Calgary*, STEPHEN LUPKER, *Psychology, University of Western Ontario*  
**In search of inhibitory neighbour priming in the fast priming paradigm**
48. STEVE JOORDENS & BLAIR ARMSTRONG, *Centre for Computational Cognitive Neuroscience, University of Toronto at Scarborough*  
**Lexical decision in the context of true and false feedback: Borders, double crosses, and symmetry in motion**
49. KEVIN DURDA & LORI BUCHANAN, *Psychology, University of Windsor*  
**Using graph theoretic clustering to measure semantic ambiguity**

**Donald O. Hebb Award Presentation and Lecture**  
**(3:30 – 4:45 p.m.)**  
**Arts 241**

DR. SHEPARD SIEGEL  
Drug addiction and the wisdom of the body



## FRIDAY JUNE 23

POSTER SESSION  
(5:00 p.m. to 7:30 p.m.)

## Marquis Hall

50. JIM REICHERT & DEBBIE KELLY, *Psychology, University of Saskatchewan*  
**Sex differences in object and face recognition**
51. JOHN VOKEY, *Psychology, University of Lethbridge*, & WILLIAM HOCKLEY, *Psychology, Wilfrid Laurier University*  
**Simulating mirror effects in the recognition of normal versus obscured faces**
52. CHARLES COLLIN & STACIE BYRNE, *University of Ottawa*  
**Hemispheric involvement in face-name association and gender identification tasks using familiar and unfamiliar faces**
53. JOEL LUCAS & WILLIAM PETRUSIC, *Psychology, Carleton University*  
**The SNARC effect for recognition of faces**
54. CASSANDRA ADDURI & JONATHAN MAROTTA, *Psychology, University of Manitoba*  
**Face recognition and aging?**
55. LUKE B. JACKIW & KATHERINE ARBUTHNOTT, *Psychology, University of Regina*  
**Implicit vs. explicit measures of racial attitudes**
56. MICHELLE A. CORCORAN & JOHN R. VOKEY, *University of Lethbridge*  
**Mining the ORE: Context and the other race effect**
57. DARYL HEPTING, *Computer Science, University of Regina*, RICHARD SPRING, *Computer Science, University of Regina*, & KATHERINE ARBUTHNOTT, *Psychology, Champion College*,  
**Categorization of faces: Salient characteristics of own- versus other-race faces**
58. JORDAN SCHOENHERR, *Psychology, Carleton University*, MIKE HENIGHAN, *Psychology, Carleton University*, SYLVAIN PRONOVOST, *Institute of Cognitive Science, Carleton University*, & ROB THOMSON, *Institute of Cognitive Science, Carleton University*,  
**Lexical category as a determinant of the category-order effect**
59. LONI RHODE, LEE BAUGH, PAULINE PEARSON, LORNA JAKOBSON, & JONATHAN MAROTTA, *Psychology, University of Manitoba*  
**Colour-specific deficits in implicit colour working memory: A visuomotor case study**
60. KATHLEEN L. HOURIHAN, *University of Waterloo*, TRACY L. TAYLOR, *Psychology, Dalhousie University*, COLIN M. MACLEOD, *Psychology, University of Waterloo*,  
**Does rehearsal strategy in item-method directed forgetting change as a function of cue proportions at study?**
61. LISA LEJBAK, MARGARET CROSSLEY, & MIRNA VRBANCIC, *Psychology, University of Saskatchewan*  
**Unexpected sex-related differences on certain n-back working memory tasks**
62. LISA LEJBAK, MIRNA VRBANCIC, & MARGARET CROSSLEY, *Psychology, University of Saskatchewan*  
**Sex-related differences and working memory: A female advantage across versions of the "concentration" task**
63. MICHAEL HENIGHAN, *Psychology, Carleton University*,  
**Working memory and arithmetic**
64. MARCIE PENNER-WILGER, *Cognitive Science, Carleton University*, BRENDA SMITH-CHANT, *Psychology, Trent University*, LISA FAST, *Psychology, Carleton University*, JO-ANNE LEFEVRE, *Psychology, Carleton University*, SHERI-LYNN SKWARCHUK, *Education, University of Winnipeg*, DEEPTHI KAMAWAR, *Psychology, Carleton University*, & JEFFREY BISANZ, *University of Alberta*  
**Components of early mathematical competence: Fine motor ability and working memory**
65. SHAWN TAN CHIN YANG & PETER DIXON, *Psychology, University of Alberta*  
**Influence of stimulus repetition on the SNARC effect**
66. ADAM DUBE & KATHERINE ROBINSON, *Psychology, Champion College*  
**A microgenetic investigation of children's division strategies**
67. NATALIE WAXMAN, KIM CORNISH, JACOB BURACK, DANIELLE OSTFIELD, & KIM DANIEL, *Educational and Counselling Psychology, McGill University*  
**Learning to count and sequential responding in typically developing boys**
68. JO-ANNE LEFEVRE, MARCIE PENNER-WILGER, ARYN PYKE, TINA SHANAHAN, & PATRICIA TRBOVICH, *Psychology, Carleton University*  
**A calculated risk: Is arithmetic skill declining in Canada?**
69. ARIANNA MERRITT, TINA SHANAHAN, & JO-ANNE LEFEVRE, *Psychology, Carleton University*  
**Adults' use of procedures in mental arithmetic with multi-digit numbers**
70. TAMARA ANSONS, JASON LEOE, *Psychology, University of Manitoba*  
**The influence of the generation of detail on accurate and inaccurate remembering**
71. JASON OZUBKO, *University of Toronto at Scarborough*  
**Odd is better: The role of distinctiveness and recollection in old/new recognition decisions**
72. GREGORY KRATZIG & KATHERINE ARBUTHNOTT, *Psychology, Champion College, University of Regina*  
**Examination of age related differences and Judgment of Learning using the Metamemory in Adulthood Questionnaire**
73. GREGORY KRATZIG & KATHERINE ARBUTHNOTT, *Psychology, Champion College, University of Regina*  
**Judgment of Learning: Metacognitive calibration and self-report performance**
74. MELISSA BRASGOLD, SYLVAIN GAGNON, & GLENN THOMPSON, *School of Psychology, University of Ottawa*  
**An examination of memory for complex events and the role of binding**
75. BRIAN DUFFELS & PETER DIXON, *Psychology, University of Alberta*  
**Effects of incidental task recall on switch cost**
76. JENNIFER A. SCHNEIDER, HEATHER L. TIEDE, & JASON P. LEOE, *Psychology, University of Manitoba*  
**Assessing the accuracy of predictions of future recall: Do people know the value of memory cues?**

77. BLAINE MULLINS & PETER DIXON, *Psychology, University of Alberta*  
**Prior experience frames retrieval cues in language production**
78. MINA ATIA, STEVE JOORDENS, DEBBIE TALMI, & GEORGE CREE, *Centre for Computational Cognitive Neuroscience, University of Toronto at Scarborough*  
**Emotion and memory: Familiarity, recollection, or bias?**
79. WILLIAM HOCKLEY & BEN GLIKSMAN, *Psychology, Wilfrid Laurier University*  
**The effects of repetition and similarity of environmental context on recognition memory**
80. HEATH MATHESON & BRUCE BOLSTER, *Psychology, University of Winnipeg*  
**Recognition memory for words and pictures: A test of the dual coding model**
81. BOB UTTL, *Tamagawa University*  
**Color my world: On limitations of edges, blobs, and structures**
82. JUSTIN KANTNER & D. STEPHEN LINDSAY, *Psychology, University of Victoria*  
**Increasing recognition sensitivity: When does feedback help?**
83. JENNIFER BRIERE, DAVID LANE, & TAMMY MARCHE, *Psychology, St. Thomas More College, University of Saskatchewan*  
**The effects of omitting information from post-event practice on true and false recall**
84. DAVID LANE, *Psychology, University of Saskatchewan*  
**Semantic and phonological false recall serial position effects: The impact of delay and divided attention**
85. SHELLEY R. RHYNO, *Department of Psychology, University of Saskatchewan*, ELIZABETH M. ROCHA, *University of Northern British Columbia*, & TAMMY MARCHE, *Psychology, St. Thomas More College, University of Saskatchewan*  
**The effects of question type and individual differences in children's suggestibility for an autobiographic event**
86. TANJEEM AZAD, RAYMOND GUNTER, & GLEN BODNER, *Psychology, University of Calgary*,  
**Does self-referential imagery reduce the DRM illusion?**
87. DANIEL SIU & PETER GRAF, *University of British Columbia*,  
**Mnemonics for prospective memory**
88. JAMES R. SCHMIDT, *Psychology, University of Waterloo*, MATTHEW J. C. CRUMP, *Psychology, McMaster University*, JIM CHEESMAN, *Psychology, University of Saskatchewan* & DEREK BESNER, *Psychology, University of Waterloo*  
**Contingency learning without awareness: Evidence for implicit control**
89. MICHAEL HOFF, *Psychology, University of Alberta*  
**Effect of taxonomy on category learning**
90. JORDAN SCHOENHERR, GRAIG LETH-STEENSEN, & WILLIAM PETRUSIC, *Psychology, Carleton University*  
**The effect of irrelevant information on subjective confidence**
91. STEVEN R. CARROLL & WILLIAM M. PETRUSIC, *Psychology, Carleton University*  
**On the basis and time course for confidence processing in sensory detection and comparative judgements**
92. JOHN GRIVELL, *University of Manitoba*  
**Incorporating isotonic regression into a non-metric multidimensional scaling model**
93. STEPHEN ERDLE, *Huron University College*  
**The generalized expectancies scale**
94. JEFFREY FRANSON, *Psychology, University of Guelph*, TRICK, *Department of Psychology, University of Guelph*, & PETER COOPER, *Insurance Corporation of British Columbia*  
**A neural network approach for analyzing patterns amongst vehicle accidents and crashes based upon vehicle driver characteristics, human performance factors, and driving conditions**
95. SONIA SHUKLA & DOUGLAS BORS, *Psychology, University of Toronto at Scarborough*  
**Need for cognition and first language: Are we all speaking the same language when it comes to our cognitive needs?**
96. PETER DIXON, *Department of Psychology, University of Alberta*  
**Correctly analyzing accuracy**
97. DANIELLE LABOSSIERE, JASON LEBOE, *Psychology, University of Manitoba*  
**The effect of prime distractor fluency on negative priming depends on probe target fluency: More support for an episodic basis of priming effects**
98. ANDREAS BREUER & GLEN BODNER, *Psychology, University of Calgary*  
**Distinguishing between accounts of masked response priming using a parity task**
99. RIFAT ALAM, *Centre for Computational Cognitive Neuroscience, University of Toronto in Scarborough*, STEVE JOORDENS, *Centre for Computational Cognitive Neuroscience, University of Toronto in Scarborough*, & DARLENE WALSH, *Rotman School of Management, University of Toronto*  
**Long-term semantic priming in the face of opposing strategies: Support for continual learning**
100. LENORE READ & PETER DIXON, *Psychology, University of Alberta*  
**Evaluating influences on stimulus-response compatibility and negative priming with a stimulus-response repetition task**
101. LORI DOAN & JASON LEBOE, *Psychology, University of Manitoba*  
**Featural versus holistic processing: An investigation into processing strategies in recognition judgments**
102. RICK MEHTA, *Psychology, Acadia University*  
**Effects of pretraining on acquisition of novel configural discriminations**
103. CHRISTOPHER WARREN & DANIEL MEEGAN, *Psychology, University of Guelph*  
**Preferences need no inferences, but they do need processing fluency**
104. KENNETH "RYAN" WILSON, *Psychology, University of Manitoba*, PAULINE PEARSON, *Psychology, University of Winnipeg*, & JONATHAN J. MAROTTA, *Psychology, University of Manitoba*  
**Temporal integration limits of stereovision in visual guided grasping**
105. GEORGE FOURIEZOS, GARY CAPSTICK, FRANCOIS MONETTE, CHRISTINE BELLEMARE, MATTHEW PARKINSON, ANGELA DUMOULIN, *School of Psychology, University of Ottawa*  
**Judgments of audio-visual synchrony for moving and stationary visual targets**

106. ELINA BIRMINGHAM, *Psychology, University of British Columbia*, MATT YANKO, *Psychology, University of British Columbia*, JOHN BARRESI, *Psychology, Dalhousie University*, WALTER F. BISCHOF, *Computing Science, University of Alberta*, & ALAN KINGSTONE, *Psychology, University of British Columbia*  
**The role of attention in complex event perception**
107. JIE GAO & PETER GRAF, *University of British Columbia*  
**How to produce a discrepancy reaction?**
108. ANN HOLDING & CHRISTINE D. TSANG, *Psychology, Huron University College, University of Western Ontario*  
**The development of language and music: How do infants tune into the musical world?**
109. ASHLEY VANSTONE, LOLA L. CUDDY, & CHRIS TRIMMER, *Psychology, Queen's University*  
**A new test of tonal processing**
110. CHRIS TRIMMER, LOLA L. CUDDY, & ASHLEY VANSTONE, *Psychology, Queen's University*  
**Do Musicians have a heightened sensitivity to emotional prosody in speech?**
111. SAMANTHA LEWYCKY, *Psychology, University of Manitoba*, ERIN JOHNS, *Psychology, University of Manitoba*, LORNA JAKOBSON, *Psychology, University of Manitoba*, ANDREA KILGOUR, *Clinical Health Psychology, University of Manitoba*, & BRENDA STOESZ, *Psychology, University of Manitoba*  
**Music training and reading ability in adults**
112. LINDA KERSWELL, *Psychology, University of Northern British Columbia*, PAUL SIAKALUK, *Psychology, University of Northern British Columbia*, PENNY PEXMAN, *Psychology, University of Calgary*, CHRISTOPHER SEARS, *Psychology, University of Calgary*, & WILLIAM OWEN, *Psychology, University of Northern British Columbia*  
**The influence of task demands and homophone type on homophone effects**
113. NICOLE CONRAD, *Psychology, St. Mary's University*  
**Transfer between reading and spelling supports a shared orthographic lexicon**
114. ROY FERGUSON & JENNIFER STOLZ, *University of Waterloo*  
**Is spatial attention necessary to process words to the level of meaning?**
115. SHAWNDA LANTING, NICOLE HAUGRUD, LISA LEJBAK, DYAN ROBERTSON, SHELLEY RHYNO, JOCELYN POOCK, & MARGARET CROSSLEY, *Psychology, University of Saskatchewan*  
**Clustering and switching during speeded word generation tasks: The effects of age and verbal ability on phonemic and semantic fluency**
116. LISA LEJBAK, NICOLE HAUGRUD, SHAWNDA LANTING, DYAN ROBERTSON, SHELLEY RHYNO, JOCELYN POOCK, & MARGARET CROSSLEY, *Department of Psychology, University of Saskatchewan*  
**Older adults' pattern of decline across time is different on phonemic but not semantic fluency**
117. SUSANNE BORGWALDT, *University of Alberta*, ROBERTO DE ALMEIDA, *Concordia University*, RACHEL KEMPS, *University of Utrecht*, & GARY LIBBEN, *University of Alberta*  
**Multiple activation of ambiguous roots in sentence contexts**
118. ARYN PYKE, *Cognitive Science, Carleton University*  
**The influence of the article (a/the/that) on noun processing in on-line reading**
119. JUANITA WHALEN & PENNY PEXMAN, *University of Calgary*  
**On-line processing of ironic remarks**
120. MEGAN E. THERRIEN & CHARLES A. COLLIN, *School of Psychology, University of Ottawa*  
**Effect of spatial filtering on human navigation**
121. JANEEN LOEHR & CAROLINE PALMER, *Department of Psychology, McGill University*  
**Timing and motion in pianists' finger tapping**
122. S. BANNOFF, *Carleton University*, J. LEFEVRE, *Carleton University*, J. BISANZ, L. FAST, *University of Alberta*, D. KAMAWAR, *Carleton University*, B. L. SMITH-CHANT, *Trent University*, & S. SKWARCHUK, *University of Winnipeg*  
**The Corsi block-tapping task in children: Exploring performance, stimulus variations, and relations to early mathematical ability**
123. BARBARA E. MCLEOD, *Humanities and Social Sciences, Red Deer College*, & CHRISTOPHER R. SEARS, *Psychology, University of Calgary*  
**When a previewed distractor becomes a target during visual search**
124. JENNIFER BURKITT & DEBORAH SAUCIER, *Psychology, University of Saskatchewan*  
**The effects of cue manipulation on performance in a virtual water maze**
125. JACINTHE BARIBEAU, *Universite Laval*  
**Compulsivity and performance in procedural tasks**
126. SHOHREH M. REZAZADEH & KIM CORNISH, *Educational and Counselling Psychology, McGill University*  
**The developmental trajectory of behavioural inhibition in typically developing young boys**
127. KATHERINE ARBUTNOTT & JENNIFER STONEHAM, *Psychology, Campion College*  
**Emotional self-regulation and task switching**
128. EMILY SCHRYER, EVAN RISKO, & DEREK BESNER, *Psychology, University of Waterloo*  
**Switch effects in go-no-go paradigms: All dimensions are not retrieved equal**
129. STEPHANIE YAMIN, *University of Ottawa*, ALEXANDRE BELANGER, *University of Ottawa*, ANDREE-ANN CYR, *University of Ottawa*, SYLVAIN GAGNON, *University of Ottawa*, S. MARSHALL, *CanDrive*, & MALCOME HING, *CanDrive*  
**Dual task performance during driving simulations in older and younger drivers**
130. SAMUEL HANNAH, LORRAINE ALLAN, & JENN BENETEAU, *McMaster University*  
**Don't tell me what to do: The command performance paradigm and the role of volition in judgments of control**
131. YOKO ISHIGAMI & RAYMOND KLEIN, *Psychology, Dalhousie University*  
**On the networks of attention underlying absentmindedness**
132. EVAN F. RISKO, CHRIS BLAIS, JENNIFER STOLZ, & DEREK BESNER, *University of Waterloo*  
**The myth of control: When a larger cueing effect does not mean more attention**
133. GARY CAPSTICK & GEORGE FOURIEZOS, *School of Psychology, University of Ottawa*  
**Attention and perceived direction of motion**

134. KATHERINE ARBUTHNOTT, *Campion College, University of Regina*, AMANDA SOCKETT, *Campion College, University of Regina*, & KINDA KEALY, *University of Regina*  
**Experience and attention**
135. HIROE LI & PETER GRAF, *Psychology, University of British Columbia*  
**Attentional demands of handheld devices**
136. LAURA AGUILERA, WILLIAM J. OWEN, PAUL D. SIAKALUK, & JENNIFER SCAMMELL, *Psychology, University of Northern British Columbia*  
**Proofreading skills in print and computer formats**
137. IMRAN ANSARI, CHRIS BLAIS, & DEREK BESNER, *Psychology, University of Waterloo*  
**Taking the eyes at face value: A re-evaluation of gaze**
138. MILES BOWMAN, *Centre for Neuroscience Studies, Queen's University*, & J. R. FLANAGAN, *Psychology, Queen's University*  
**Event-based feedback mediates sensorimotor control of gaze and hand movements during object manipulation**
139. KIMBERLY HALVORSON, *Concordia College, Moorhead, Minnesota*, REIKO GRAHAM, *Texas State University, San Marcos, Texas*, & CHRIS KELLAN FRIESEN, *North Dakota State University, Fargo, North Dakota*  
**Gaze-triggered orienting is influenced by facial emotional expression**
140. SCOTT GLOVER, *Psychology, Royal Holloway*, PETER DIXON, *Psychology, University of Alberta*  
**Motor representation facilitates cooperative performance in a two-person grasping task**
141. KELLY SUSCHINSKY, *Psychology, University of Lethbridge*, & DANIEL KRUPP, *Psychology, Neuroscience, and Behaviour, McMaster University*  
**Here's looking at you: What men look at when judging a woman's physical attractiveness**
142. KARL BORGMANN, EVAN RISKO, JENNIFER STOLZ, & DEREK BESNER, *Psychology, University of Waterloo*  
**Simon says: Reliability can tell us something about component processes in the Simon Task**
143. JACQUELINE CUMMINE, RONALD BOROWSKY, & GORDON SARTY, *Psychology, University of Saskatchewan*  
**On the independence of reading processes**
144. SANDRA WRIGHT, *Psychology, Sir Wilfred Grenfell College*, JERRY YAGER, *Pediatrics, University of Alberta*, EDWARD ARMSTRONG, *Pediatrics, University of Alberta*, & DEBORAH SAUCIER, *Psychology, University of Saskatchewan*  
**Age and sex affects sensorimotor test results in rats (*Rattus norvegicus*)**
145. MATTHEW PARSONS, *Sir Wilfred Grenfell College*, SANDRA WRIGHT, *Sir Wilfred Grenfell College*, & GERARD MARTIN, *Memorial University of Newfoundland*  
**Message from above: Does the location of visual cues influence place learning?**
146. DOUGLAS GRANT, *Psychology, University of Alberta*  
**Effect of training delays on the Choose-Short Effect in pigeons**
147. ERIC LEGGE & MARCIA SPETCH, *University of Alberta*  
**Testing the influence of differential outcomes in spatial localization**
148. CARLY M. NICKERSON, LAURIE L. BLOOMFIELD, MICHAEL R. W. DAWSON, & CHRISTOPHER B. STURDY, *University of Alberta*  
**The effect of pitch transformations on artificial neural networks that discriminate notes from the 'chick-a-dee' call of *Poecilocatricapillus***
149. AMABILIS HARRISON, RON BOROWSKY, & GORDON SARTY, *Psychology, University of Saskatchewan*  
**Semantic processing in word naming: A structural equation model using fMRI data**
150. KIMBERLY HEBERT, *Psychology, Dalhousie University*  
**Early-life predator odour stress influences HPA-axis development and anxiety-like behaviour in male and female rats**
151. JACINTHE LEBLANC & CLAUDE DUMAS, *Psychology, Université du Québec à Montréal*  
**The effect of the starting position in a progressive elimination task in dogs**
152. KURT SCHALL, *Psychology, University of Alberta* & CLAYTON DICKSON, *Psychology, Centre for Neuroscience, University of Alberta*  
**Dynamic changes of hippocampal excitability across and within rhythmic EEG states**
153. MICHAEL BOISVERT, ANTHEA VEAL, & DAVID SHERRY, *Psychology, University of Western Ontario*  
**Interval timing by foraging bumble bees: Anticipating floral reward production**
154. DANIELLE R. FONTAINE & DEBBIE KELLY, *Psychology, University of Saskatchewan*  
**Social cognition in Clark's Nutcrackers**
155. AYESHA KHAN, ELLIOTT A. BEATON, & DENYS DECATANZARO, *Psychology, Neuroscience, and Behaviour, McMaster University*  
**Precocious puberty in female mice (*Mus musculus*): Measurement of urinary steroids in developing females and stimulus males**
156. ALLISON BIRDSALL, MEGAN DONNELLY, JENNIFER BLOOMFIELD, ANDREA PATEY, & MATTI SAARI, *Psychology, Nipissing University*  
**Enrichment, but not cage type alters behaviour in the water maze and the open field**
157. CYNTHIA SCIORTINO, *Department of Psychology, McGill University*, JULIE DUMONT, *Psychology, McGill University*, & VIVIANE SZIKLAS, *Psychology/Department of Neurology and Neurosurgery, McGill University*  
**Retrosplenial contribution to a hippocampo-thalamic circuit underlying conditional learning**
158. JULIE DUMONT, *Psychology, McGill University*, CYNTHIA SCIORTINO, *Psychology, McGill University*, & VIVIANE SZIKLAS, *Psychology/ Department of Neurology and Neurosurgery, McGill University*  
**Functional dissociation between fornix and hippocampus in spatial conditional learning**
159. TRISH WOLANSKY & CLAYTON DICKSON, *Psychology & Centre for Neuroscience, University of Alberta*  
**The slow oscillation in the entorhinal cortex: Coordination of hippocampal and neocortical activity**
160. CARRIE BALDWIN, MARK PENNER, SHEILA MACINTOSH, ANDREA PATEY, & MATTI SAARI, *Psychology, Nipissing University*  
**Differences in dietary glycine do not alter enriched housing effects**

161. JONATHAN FARTHING, *College of Kinesiology, University of Saskatchewan*, RON BOROWSKY, *Psychology, University of Saskatchewan*, PHIL CHILIBECK, *College of Kinesiology, University of Saskatchewan*, GORD BINSTED, *College of Kinesiology, University of Saskatchewan*, & GORDON SARTY, *Psychology, University of Saskatchewan*  
**Neuro-physiological adaptations associated with cross-education of strength assessed by functional magnetic resonance imaging and electromyography**
162. KATHERINE MCMILLAN, *Psychology, University of Winnipeg*, KENNETH W. JOHNS, *Psychology, University of Manitoba*, & DOUGLAS A. WILLIAMS, *Psychology, University of Winnipeg*  
**Timed responding in humans and nonhumans under deeply negative contingencies**
163. MATHIEU BLANCHARD, *Neuroscience, Dalhousie University*, CRAIG MOORE, *Pharmacology, Dalhousie University*, PETER LISTON, *Apoptosis Research Centre, Children's Hospital of Eastern Ontario Research Institute*, MARTIN HOLCIK, *Apoptosis Research Centre, Children's Hospital of Eastern Ontario Research Institute*, & GEORGE ROBERTSON, *Psychiatry and Pharmacology, Dalhousie University*  
**Deletion of hIAP-1 and overexpression of XIAP increases severity of Experimental Autoimmune Encephalomyelitis**
164. MARC WALLACE, KELLY HARTLE, WANDA SNOW, NICOLE WARD, & TAMMY IVANCO, *Psychology, University of Manitoba*  
**Effect of hypoxia on the morphology of mouse striatal neurons**
165. KELLY HARTLE, SUSAN LARSON, & TAMMY IVANCO, *Psychology, University of Manitoba*  
**Acute administration of interleukin-1b disrupts non-hippocampal learning: A potential mechanism involved in learning**
166. AMBER A. MATHER, KENNETH W. JOHNS, DOUGLAS A. WILLIAMS, *Psychology, University of Winnipeg*  
**Overshadowing of timed conditioned responding**
167. PAVEL PITERKIN, CARLA LIPSCOMBE, MARIE-PIERRE COSSETTE, & DAVE G. MUMBY, *CSBN, Concordia University*  
**Context-specific memory and memory for context in rats with hippocampal lesions**
168. TOM SCHWEIZER, *Rotman Research Institute at Baycrest*, CHRIS ORJET, *Psychology, University of Regina*, NACHSHON MEIRAN, *Ben-Gurion University of the Negev*, MICHAEL ALEXANDER, *Neurology, Harvard Medical School*, MICHAEL CUSIMANO, *Neurosurgery, St. Michael's Hospital and University of Toronto*, & DONALD STUSS, *Rotman Research Institute at Baycrest, University of Toronto*  
**Is there a role for the cerebellum in task switching?**
169. CHARLES COOK, ERIC ROAD, NICOLE THOMAS, JENNIFER BURKITT, & DEBORAH SAUCIER, *Psychology, University of Saskatchewan*  
**Are sex differences in performance on two neuropsychological tasks dependent upon the plane of presentation?**
170. CRYSTAL HADIKIN, HUGO LEHMANN, ROBERT SUTHERLAND, *CCBN, University of Lethbridge*  
**Retrograde amnesia for object discriminations following hippocampal damage in rats: Object odours and not other cues are remembered**
171. CARLA LIPSCOMBE & DAVID MUMBY, *Psychology, Concordia University*  
**Social acquisition of a food preference in rats interacting in large, complex environments is subject to disruption following neurotoxic lesions of the hippocampus**
172. MELISSA BURT, *Biology, University of Prince Edward Island*, CATHY RYAN, *Psychology, University of Prince Edward Island*, TRACY DOUCETTE, *Biology, University of Prince Edward Island*  
**Effects of early stimulation of kainate receptors on the development of novelty, reward and drug seeking behaviours in the adult rat**

**SATURDAY June 24  
PAPER SESSION 4  
(8:30 – 10:00 a.m.)**

**Arts 133**

**4.1 Cognition and Performance (Chair: Lorraine Allan)**

173. LORRAINE ALLAN, SAMUEL HANNAH, MATHEW CRUMP, & SHEPARD SIEGEL, *Psychology, McMaster University*  
**The psychophysics of contingency**
174. MEREDITH YOUNG, *Psychology, Neuroscience, and Behaviour, McMaster University*, JASON TANGEN, *School of Psychology, University of New South Wales*, & KEVIN EVA, *Department of Clinical Epidemiology and Biostatistics, McMaster University*  
**Reaction to change: Differential performance of young and senior adults in covariation judgments**
175. MYRA FERNANDES, *Psychology, University of Waterloo*, TRACEE JOY FRANCIS, *Psychology, University of Waterloo*, JENNIFER RYAN, *Rotman Research Institute, Baycrest Centre for Geriatric Care and University of Toronto*, & ELLEN BIALYSTOK, *Psychology, York University*  
**Effect of aging on the processing of global and local visual stimuli**
176. ERIN K. CRESSMAN, *School of Kinetics, University of British Columbia*, IAN M. FRANKS, *School of Kinetics, University of British Columbia*, JAMES T. ENNS, *Psychology, University of British Columbia*, & ROMEO CHUA, *School of Kinetics, University of British Columbia*  
**Unconscious but under control: Subliminal priming is sensitive to observer expectations**
177. BRUCE MILLIKEN, JOAQUIN M. M. VAQUERO, & ELLEN MACLELLAN, *McMaster University*  
**Awareness and repetition effects in spatial localization: A qualitative difference approach**

**Arts 134**

**4.2 Human Learning and Memory (Chair: Glen Bodner)**

178. RANDY JAMIESON, *Psychology, McMaster University*, NATHAN SKLAIR, & DOUG MEWHORT, *Psychology, Queen's University*  
**The relation between learning and structure is predicted by a multiple-trace theory of memory**
179. JASON OZUBKO, STEVE JOORDENS, & MARTY NIEWIADOMSKI, *University of Toronto at Scarborough*  
**If you want to be familiar, first you have to be fluent: The interaction between study-test match and perceptual fluency in old/new recognition**
180. JENNIFER SHORT & GLEN BODNER, *Psychology, University of Calgary*  
**Differentiating true, false, and fabricated statements using statement analysis**
181. NATHAN SKLAIR, PADDY SPEAR, & D. J. K. MEWHORT, *Queen's University*  
**An analysis of Hebb's Repeating-List Effect**
182. CARRIE CUTTLER & PETER GRAF, *University of British Columbia*  
**Checking and prospective memory**

**Arts 241**

**4.3 Symposium: Orienting and Navigation: A Comparative Perspective**

Organizer: Debbie M. Kelly, *University of Saskatchewan*

183. DEBBIE M. KELLY, *Psychology, University of Saskatchewan*, & WALTER BISCHOF, *University of Alberta*  
**A Comparative Examination of Spatial Cue Use in Place Finding Tasks**
184. WALTER F. BISCHOF, *Computing Science, University of Alberta*, & DEBBIE M. KELLY, *Psychology, University of Saskatchewan*  
**Navigation and localization in open environments**
185. JANICE J. SNYDER, *Department of Psychology, University of British Columbia Okanagan*, WALTER F. BISCHOF, *Computing Science, University of Alberta*  
**Static Cues for the Perception of Heading**
186. CHRISTINE TIPPER, *Psychology, University of British Columbia*, WALTER BISCHOF, *Psychology, University of Alberta*, ALAN KINGSTONE, *Psychology, University of British Columbia*, & TODD HANDY, *Psychology,*

*University of British Columbia*

**Attention and eye movements during navigation**

187. CHRISTIANE WILZECK, *Institute of Psychology, J. W. Goethe-University*, WOLFGANG WILTSCHKO, *Institute of Ecology, Evolution and Diversity, J. W. Goethe-University*, ONUR GUNTURKUN, *Institute of Cognitive Neuroscience, Ruhr-University Bochum, Germany*, & HELMUT PRIOR, *Institute of Psychology, J. W. Goethe-University, Frankfurt/Main, Germany*

**Magnetic compass learning in pigeons (*Columba livia*)**

**PAPER SESSION 5**

**(10:30 – 12:00 p.m.)**

**Arts 133**

**5.1 Individual Differences in Cognition (Chair: Lorin Elias)**

188. CINDY HAMON-HILL & JOHN BARRESI, *Psychology, Dalhousie University*  
**Does a musical manipulation interact with empathic tendencies to influence social perception?**
189. SANDEEP MISHRA, *University of Lethbridge*  
**Why women should hate flirts: Viewing proceptive women affects men's evaluations of their partners**
190. JENNIFER HEISZ & JUDITH SHEDDEN, *McMaster University*  
**Face recognition is facilitated by gender-specific semantic information**
191. SONIA SHUKLA & DOUGLAS BORS, *Psychology, University of Toronto at Scarborough*  
**Gender differences on the Mental Rotations Test: Examining the role of instructions and participant characteristics**
192. CHRISTINE D. TSANG & KELLI ABRAMOWITZ, *Psychology, Huron University College, University of Western Ontario*  
**It's not how you say it, but what you say: The effect of emotional speech on word recognition in young children**

**Arts 134**

**5.2 Spatial Memory (Chair: Deb Saucier)**

193. DEBORAH SAUCIER & NICOLE THOMAS, *Psychology, University of Saskatchewan*  
**Spatial visualization and spatial working memory contribute to sex differences in mental rotations**
194. FRASER T. SPARKS, HUGO LEHMANN, & ROBERT J. SUTHERLAND, *Department of Neuroscience, University of Lethbridge*  
**The hippocampus can interfere with retrieval of long-term contextual memories**
195. PATRICIA L. SORENSEN, PHILIP M. ZEMAN, & ROBERT J. SUTHERLAND, *University of Lethbridge*  
**Differing patterns of synchronous cortical activity during a virtual spatial navigation task**
196. CLAYTON DICKSON, *Psychology, University of Alberta*  
**State-shifters: The behavioural relevance of brain rhythms**
197. JOHN HOWLAND, TAK PAN WONG, & YU-TIAN WANG, *Medicine, University of British Columbia*  
**Stress-induced spatial memory disruption: A role for extra-synaptic NMDA receptors?**

**Arts 146**

**5.3 Symposium: Mathematical Cognition**

Organizer: Katherine M. Robinson, *University of Regina*

198. KATHERINE M. ROBINSON, *University of Regina*  
**Mathematical inversion and conceptual, procedural, and factual knowledge**
199. JO-ANNE LEFEVRE & MARCIE PENNER-WILGER, *Carleton University*  
**Dual-route model of arithmetic**
200. THOMAS PHENIX, *Campion College, University of Regina*  
**Retrieval-induced forgetting in arithmetic is a consequence of retrieval-specific inhibition**

201. JAMIE I. D. CAMPBELL & NICOLE ROBERT, *Psychology, University of Saskatchewan*  
**Getting the facts backwards: No reverse association for multiplication?**
202. ARRON METCALFE & JAMIE I. D. CAMPBELL, *Psychology, University of Saskatchewan*  
**Addend familiarity and strategy choice: Have we math somewhere before?**

#### Arts 241

##### 5.4 Symposium: Object and Word Processing

Organizer: Ron Borowsky, *University of Saskatchewan*

203. PENNY PEXMAN & IAN HARGREAVES, *Psychology, University of Calgary*  
**Effects of semantic features in picture processing**
204. RONALD BOROWSKY, JACQUELINE CUMMINE, AMY HARRISON, & GORDON SARTY, *Psychology, University of Saskatchewan*  
**Where words and objects collide: Does the assembly of phonology take place along the object ‘how’ stream, and does lexical access take place along the object ‘what’ stream?**
205. DANIEL BUB & MICHAEL MASSON, *Psychology, University of Victoria*  
**Measuring dynamic evocation of gestural representations to objects and sentences**
206. WILLIAM OWEN, *University of Northern British Columbia*, RONALD BOROWSKY, *Psychology, University of Saskatchewan*, JACQUELINE CUMMINE, *Psychology, University of Saskatchewan*, & GORDON SARTY, *Psychology, University of Saskatchewan*  
**Neurophysiological models of basic reading: The role of the insular cortex in lexical and sub-lexical processing**
207. CHRIS WESTBURY & GEOFF HOLIIS, *Psychology, University of Alberta*  
**Evidence for implicit optimality constraints in coining new words**

### PAPER SESSION 6

(1:30 – 3:00 p.m.)

#### Arts 133

##### 6.1 Psycholinguistics (Chair: Ron Borowsky)

209. MURRAY SINGER, *University of Manitoba*  
**Verification of text ideas during reading**
210. DAN HUFNAGLE, *Psychology, University of Calgary*, & SUZANNE CURTIN, *Psychology and Linguistics, University of Calgary*  
**Abstracting grammatical knowledge from linguistic cues**
211. CYRUS SHAOUL & CHRIS WESTBURY, *Psychology, University of Alberta*  
**Global co-occurrence density predicts both lexical and semantic decision RTs**
212. SERJE ROBIDOUX, JENNIFER STOLZ, & DEREK BESNER, *Psychology, University of Waterloo*  
**Visual word recognition: Control over interactive activation**
213. JACKY TWEEDIE, *Carleton University*  
**Needs must – What the bilingual brains tells us about ourselves**

#### Arts 134

##### 6.2 Brain Plasticity (Chair: Kevin Duffy)

214. KEVIN DUFFY & MATTHEW KUTCHER, *Psychology, Dalhousie University*  
**Cytoskeleton alteration correlates with structural plasticity in the mammalian visual system**
215. JASON P. WAGNER, *Psychology, University of Saskatchewan*, & MICHAEL E. CORCORAN, *Department of Anatomy and Cell Biology, University of Saskatchewan*  
**Conditioning of interictal behaviours, but not ictal behaviours, seizures, or afterdischarge threshold, by kindling of the amygdala in rats**
216. NEIL M. FOURNIER, *Psychology, University of Saskatchewan*, MICHAEL E. CORCORAN, *Department of Anatomy and Cell Biology, University of Saskatchewan*, LISA E. KALYNCHUK, *Psychology, University of*



*Saskatchewan*

217. **The role of adult neurogenesis in the development of amygdaloid kindling**  
HUGO LEHMANN, FRASER SPARKS, JAMUS O'BRIEN, & ROBERT SUTHERLAND, *CCBN, University of Lethbridge*  
**Complete, but not dorsal nor ventral, hippocampal damage produces retrograde amnesia for fear-potentiated startle**
218. **Long-term amygdala kindled rats show decreased habituation to a novel environment**  
DEVON ANDERSEN, NEIL FOURNIER, & LISA KALYNCHUK, *Psychology, University of Saskatchewan*

#### Arts 241

### 6.3 Symposium: Mechanisms of Task Switching and Task Choice

Organizer: Katherine Arbuthnott, *Campion College, University of Regina*

219. KATHERINE ARBUTHNOTT, *Psychology, Campion College*  
**Distinctiveness and Backward Inhibition**
220. TODD WOODWARD, *Department of Research, Riverview Hospital, Vancouver*  
**Some behavioural and anatomical underpinnings of efficient task switching**
221. JADY WONG, *University of Manitoba*, KAILYN STOBBE, *University of Manitoba*, MATT CRUMP, *McMaster University*, JASON LEBOE, *University of Manitoba*  
**Item-specific control on task-switch costs**
222. EVAN F. RISKO & DEREK BESNER, *University of Waterloo*  
**The task-choice paradigm: When can work on the task cue and the target be done in parallel?**
223. MARCO SINAI, NATALIE PHILLIPS, & PHILIPPE GOFFAUX, *Psychology, Centre for Research in Human Development, Concordia University*  
**Age and task difficulty effects on backward inhibition: A behavioural and ERP study**
224. PHILIPPE GOFFAUX, NATALIE PHILLIPS, MARCO SINAI, & DOLORES PUSHKAR, *Concordia University*  
**When preparing becomes difficult: How working memory affects age-related changes in task switching performance and electrical brain activity**

#### NSERC and CIHR Workshops

(3:30 – 5:00 p.m.)

#### Arts 133

##### 7.1 CIHR

Dr. Nathalie Gendron, Deputy Director, Program Delivery, KCP Branch

#### Arts 134

##### 7.2 NSERC Scholarships

Barbara Conway, Acting Director, Life Sciences and SRO, Research Grants and Scholarships

#### Arts 241

##### 7.3 NSERC Discovery Grants

Paule Boulanger, Program Officer, Life Sciences Division, GSC 12 and 33

#### ANNUAL BUSINESS MEETING

(5:00 p.m.)

#### Arts 241

#### AWARDS BANQUET and DINNER

(7:00 p.m.)

#### Marquis Hall

Presentation of the Graduate Student Awards, Richard C. Tees Distinguished Leadership Award to Dr. Lorraine Allan, and Science Communication Award to Bob McDonald of CBC's Quirks and Quarks.

