

Memory Disorders Research Society- 2013 Meeting

Hart House, University of Toronto, October 9-12, 2013



Psychology
UNIVERSITY OF TORONTO



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Wednesday, 9.10.2013

- 6:00-7:00 pm** **Sue Corkin:** Public lecture, Permanent Present Tense: The Unforgettable Life of the Amnesic Patient, H.M.
Royal Ontario Museum (ROM) Cigny and Cleophee Eaton Theatre and Lobby, President's Choice School Entrance, located at the south end of the building on Queen's Park
- 7:45pm** Shuttle buses depart from outside the Queen's Park ROM entrance
- 8:30-10:00 pm** Reception - Distillery District, Corkin Gallery, 7 Tank House Lane

Thursday, 10.10.2013 (Conference held in the Great Hall of Hart House)

8:00-8:30 am Registration and continental breakfast

8:30-10:00 am **Symposium 1: Contextual Binding of Episodic Memories**

Chairs: Neil Burgess, Sue Becker

1. **Neil Burgess:** Binding of multi-component events into episodic memory
2. **Sue Becker:** Distinct hippocampal mechanisms for binding external versus internal context in episodic memory
3. **Mike Kahana:** Contextual cueing and memory reactivation
4. **Joel Voss:** Sampling strategies during contextual association learning

10:00-10:20 am Coffee Break

10:20-11:20 am **Open Paper #1 (3x20 min. each)**

1. **Mike Anderson:**
2. **David Badre:** Frontostriatal correlates of working memory management
3. **Paul Reder:** Interacting human memory systems in skill learning: the roles of flexibility and speed.

11:20-12:00 pm **Data Blitz #1 (6x6 min. each)**

1. **Simona Ghetti:** Hippocampal Contribution to the Development of Episodic Memory
2. **Morris Moscovitch:** Spatial memory

3. **Betty Glisky**: Cognitive Benefits of Online Social Networking in Older Adults
 4. **Hans Markowitsch**: Social cognition in patients with dissociative amnesia
 5. **Andrew Budson**: The imagination inflation effect in older adults and patients with Alzheimer's disease
 6. **Debbie Hannula**: Eye movements unmask feigned memory loss: Early, obligatory expression of memory in eye movement behavior
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12:00-1:00 pm **Lunch (served on site)**

1:00-2:30 pm **Symposium 2: The implications of multivariate analysis for our understanding of the neural representation of information.**

Chair: Sean Polyn

1. **Howard Eichenbaum**: Peering through the micro electrode: Can single neuron studies inform the interpretation of multivariate fMRI analyses?
2. **Nick Turk-Browne**: What you see depends upon how you look: Exhaustive multivariate analysis of functional connectivity
3. **Tim Rogers**: Sparse pattern classification as a means of finding radically distributed neural representations
4. **Sean Polyn**: Developing computational models to specify the mechanistic properties of neural representations during study and memory search

2:30-2:50 pm **Data Blitz #2 (3x6 min. each)**

1. **Brian Levine**: Individual differences in autobiographical memory
 2. **Alison Preston**: Offline replay of prior experience promotes formation of relational memory networks
 3. **Kathleen McDermott**: The contextual association network distinguishes between remembered and imagined events
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2:50-3:10 pm **Coffee Break**

3:10-4:10 pm **Open Paper Session #2 (3x20 min. each)**

1. **Rosie Cowell** (Cermak award): Do amnesics forget because old things look new or because new things look old?
2. **Rik Henson**: Does prediction error drive scene-face associative encoding?
3. **Eleanor Maguire**: Tracking memory traces

4:15-5:00 pm **Paul Frankland: Keynote address**
Hippocampal neurogenesis, forgetting and infantile amnesia

7:00-9:00 pm

Banquet: L'Espresso Bar Mercurio, 321 Bloor Street West (southeast corner of Bloor and St George)

Friday, 11.10.2013 (Conference held in the Great Hall of Hart House)

8:00-8:30 am Registration and continental breakfast

8:30-10:20 am Symposium 3: Cognitive and Neural Mechanisms of Reactivation

Chairs: Peggy L. St. Jacques & Daniel L. Schacter

1. **Lila Davachi:** Post-encoding reactivation and memory consolidation
 2. **Ken Paller:** Targeted memory reactivation during sleep
 3. **Lynn Nadel & Rebecca Gomez:** Reactivation and memory updating
 4. **Peggy St. Jacques & Daniel Schacter:** Reactivation-induced modification of personal memories for a museum tour
 5. **Karim Nader:** Memory reactivation of a remote memory can induce re-transformation of a contextual fear memory
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10:20-10:40 am Coffee Break

10:40-12:00 am Open Paper #3 (4x20 min. each)

1. **Roddy Roediger:** Disorders of collective memory: National narcissism
 2. **Gianfranco Dalla Barba:** The role of the hippocampus in personal temporality
 3. **Mike Kopelman:** Confabulation: Reality monitoring- necessary or sufficient?
 4. **Jim Becker:**
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12:00-1:00 pm Lunch (served on site)

1:00-2:30 pm Symposium 4: The role of sleep in the acquisition of semantic knowledge

Chairs: Tim Rogers and Ken Norman

1. **Gareth Gaskell:** Sleep and the acquisition of new lexical representations
2. **Penny Lewis:** Sleep, abstraction, and semantic memory
3. **Asaf Gilboa:** Tracking semantic memory formation: Memory transformation vs. memory cohesion
3. **Ken Norman (presented by Tim Rogers):** The computational mechanisms underlying learning during sleep

2:30-3:00 pm Data Blitz #3 (5x6 min. each)

1. **Craig Stark:** The representationally agnostic hippocampus

2. **Morgan Barense:** Complex object representations in perirhinal cortex: The whole is different from the sum of the parts
3. **Jen Ryan:** Unitization in amnesics and older adults
4. **Neal Cohen:** Competition among contextual and relational memory representations
5. **Florin Dolcos:** The role of emotion regulation in the recollection of emotional autobiographical memories

3:00-3:20 pm Coffee Break

3:20-4:20 pm **Open Paper #4 (3x20 min. each)**

1. **Jordan Poppenk** (Cermak Award): Weakly cuing memories leads to suppression of their neural representations
2. **Mary Pat McAndrews:** Hippocampus and ventromedial prefrontal cortex in remote memory retrieval
3. **Roberto Cabeza:** Less wiring, more firing: Low-performing older adults compensate for impaired white matter with increased neural activity

4:20-5:00 pm **Business meeting**

Saturday, 12.10.2013 (Conference held in the Music Room of Hart House)

8:00-8:30 Registration and continental breakfast

8:30-10:00 am Symposium 5: Breaking the spatial code of the hippocampus

Chairs: Shayna Rosenbaum and Arne Ekstrom

1. **Shayna Rosenbaum:** Hippocampal contributions to detailed vs. schematic representations in spatial memory (Rosenbaum)
2. **Arne Ekstrom:** Spatial representation outside of the hippocampus: fMRI evidence for roles of retrosplenial and parietal cortex in spatial processing
3. **Hugo Spiers:** Multiple metrics of space in the hippocampus
4. **Veronique Bohbot:** Increased grey matter in the hippocampus of healthy older adults trained on a 16-hour spatial memory improvement program

10:00-10:20 am Data Blitz #4 (3x6 min. each)

1. **Stefan Kohler:** What's new about familiarity
2. **Andy Yonelinas:** Recollection and familiarity exhibit dissociable similarity gradients: A test of the complementary learning systems model
3. **Maggie Keane:** Defining novel concepts: Impaired creativity in amnesia

10:20-10:40 am Open paper #5 (1x20 min.)

Jay McClelland: Integrating Rapid Neocortical Consolidation of Schema-Consistent Memories into the Complementary Learning Systems Theory

10:40-10:55 am Coffee Break

10:55-12:15 pm Symposium 6: The roles of the angular gyrus in semantic and episodic memory

Chairs: Sharon Thompson-Schill and Michael Rugg

1. **Dan Mirman:** Angular gyrus involvement in thematic semantics: Evidence and a computational proposal
2. **Jon Simons:** Feature integration and the subjective experience of recollection
3. **Michael Rugg:** How does the angular gyrus contribute to episodic memory retrieval?
4. Discussant: **Sharon Thompson-Schill**

12:15-12:30 pm Boxed Lunch and buses to Kleinburg and McMichael Gallery

See you next year in...