

Memory Disorders Research Society Annual Meeting

Sept 28 – Oct 1, 2016
Princeton University, Princeton, NJ



WEDNESDAY, September 28th

WELCOME RECEPTION — 7:00 - 10:00 P.M.

Chancellor Green Rotunda

THURSDAY, September 29th

BREAKFAST — 8:00 A.M.

Berlind Theatre

OPEN TALK SESSION #1 — 8:30 A.M.

Berlind Theatre

- 8:30 Morris Moscovitch
The influence of typicality and novelty on event construction and memory over short (1 hour) and long (1 week) delays: Evidence from behavior and fMRI
- 8:50 Lynn Hasher
The use of distraction to foster learning and memory
- 9:10 Paul Frankland
Memory formation in the absence of experience
- 9:20 Morgan Barense
Conceptual and perceptual information are integrated in perirhinal cortex
- 9:30 Craig Stark
Is this a memory representation I see before me?
- 9:40 Mike Miller
Decision criterion & the successful retrieval effect
- 9:50 Andy Lee
Exploring multivariate representations of content in the medial temporal lobe during memory and perception
- 10:00 Angela Gutchess
Influence of culture on memory

BREAK — 10:10 A.M.

Berlind Theatre

KEYNOTE — 10:40 A.M.

Berlind Theatre

A conversation with Joyce Carol Oates

She will read from her most recent novel, *The Man Without a Shadow* (about an amnesic patient and the scientists who study him...), discuss her interests in memory and its role in writing, and answer questions from the audience (you!).

LUNCHEON — 12:00 P.M.

Tent

OPEN TALK SESSION #2 — 1:00 P.M.

Berlind Theatre

- 1:00 Matthias Gruber (Cermak Award Winner)
States of curiosity and reward prioritize learning and post-learning dynamics
- 1:20 Daniela Palombo (Cermak Award Winner)
The adaptive value of medial temporal lobe function
- 1:40 Paul Reber
Using implicit knowledge, not quite as automatic as we thought
- 1:50 David Schnyer
Is slow wave sleep specific to memory performance: Evidence from healthy aging
- 2:00 Rebecca Burwell
Memory deficits in an animal model of normal pressure hydrocephalus
- 2:10 Peggy St. Jacques
Constructing memories for events from multiple visual perspectives
- 2:20 Jesse Rissman
Representation of distinct dimensions of episodic retrieval along the hippocampal long-axis
- 2:30 Christian Doeller
Updating memory hierarchies in hippocampus and medial prefrontal cortex
- 2:40 Veronique Bohbot
Role of progesterone in hippocampus-dependent spatial memory
- 2:45 Brice Kuhl
Differentiated representations of overlapping spatial memories in human hippocampus

BREAK — 2:50 P.M.

Berlind Theatre

SYMPOSIUM # 1 — 3:20 P.M.

Berlind Theatre

Motivation, emotion, and memory

Chair: Mara Mather

Vishnu Murty

Reward versus punishment context shunts memory encoding to discrete medial temporal lobe targets

Maureen Ritchey

Questioning the role of the hippocampus in emotional memory

Elizabeth Kensinger

Valence based recapitulation: A new model of how we remember the good and the bad

Mara Mather

A potential role for norepinephrine hot spots in long-term memory consolidation

COCKTAIL HOUR — 5:00 P.M.

Dinky Bar

BANQUET — 6:30 - 9:30 P.M.

Prospect House

FRIDAY, September 30th

BREAKFAST — 8:00 A.M.

Berlind Theatre

SYMPOSIUM #2 — 8:30 A.M.

Berlind Theatre

How do we keep information ‘in mind’?

Chair: Brad Postle

Brad Postle

Exploring latent states of working memory with fMRI, EEG, and TMS

Emrah Duzel

Working memory maintenance endorses weakly encoded events

Earl Miller

Working memory: Sustained activity? Not so much.

BREAK — 9:40 A.M.

Berlind Theatre

OPEN TALK SESSION #3 — 10:00 A.M.

Berlind Theatre

10:00 Michael Kahana

Targeted brain stimulation to modulate memory performance in humans

10:20 Rosie Cowell

Hippocampus is not the unique seat of pattern completion in cued recall

10:40 Lynn Nadel

Targeting memory reactivation: Forget about it

10:50 Roberto Cabeza

Linking visual, semantic, and episodic memory representations

11:00 Gagan Wig

Resting-state network topology sculpts task-evoked activity across the adult lifespan

11:10 Mark Gluck

Altered learning and generalization in clinical depression and post-traumatic stress disorder

11:20 Sharon Thompson-Schill

Beyond graph topology: Walk structure influences cluster-level surprisal effects in an on-line learning task

11:30 Asaf Gilboa

Ventromedial prefrontal cortex and schema instantiation

11:40 Chris Bird

Should we care whether the hippocampus is necessary for recognition memory?

11:50 Brad Love

What the success of imaging implies about how memories are represented

LUNCHEON — 12:00 P.M.

Tent

OPEN TALK SESSION #4 — 1:00 P.M.

Berlind Theatre

- 1:00 Lynne Reder
Constructing new knowledge: The interplay of familiarity, similarity, discrimination, partial-matching and working memory
- 1:20 Brian Levine
How accurate is narrative recall? evidence from verified (“staged”) events
- 1:40 Dharshan Kumaran
Generalization and big-loop recurrence within the hippocampal system: a 7T fMRI study
- 1:50 Kelly Giovanello
Neural correlates of associative recognition memory and confidence in Mild Cognitive Impairment: Effects of encoding support
- 2:00 Daniel Levy
Theta neurofeedback potentiation of early consolidation
- 2:10 Jarrod Lewis-Peacock
Is forgetting more work than remembering?
- 2:20 Ken Norman
Using Hidden Markov Models to relate encoding and retrieval of narrative stimuli
- 2:30 Stefan Kohler
Perirhinal cortex tracks the cumulative lifetime experience with object concepts
- 2:40 Joel Voss
Viewing behavior during memory encoding and retrieval: Challenges for fMRI

BREAK — 2:45 P.M.

walk to Department of Psychology/Princeton Neuroscience Institute

SYMPOSIUM #3 — 3:20 P.M.

Princeton Neuroscience Institute, A32

PTSD as it informs memory research and vice-versa

Chair: Rachel Diana

Rachel Diana

Relating theories of contextual memory to PTSD

Chris Brewin

Understanding memory impairment in PTSD: Coherence, disorganization, and fragmentation reconsidered

Neil Burgess

Testing a dual-representation model of PTSD

William Hirst

Conversations about deployment and mental health: Examining families of individuals deployed in the Iraq and Afghan wars

BREAK — 5:00 P.M.

Princeton Neuroscience Institute, A-level Study Hall

BUSINESS MEETING — 5:15 P.M.

Princeton Neuroscience Institute, A32

PARTY — 9:00 P.M. onwards

Ivy Inn

SATURDAY, October 1st

BREAKFAST — 8:00 A.M. Berlind Theatre

SYMPOSIUM #4 — 8:30 A.M. Berlind Theatre
Memory, value, and decision making
Chair: Daphna Shohamy

Lila Davachi
Episodic memories contain value-information and guide decisions

Alison Adcock
Valence as value: Circuit-dependent integration and generalization in episodic memory

Daphna Shohamy
Dissecting episodic and incremental influences on value-based decisions

Nathaniel Daw
Episodic memory and flexible, non-parametric estimation for decision making

BREAK — 10:10 A.M. Berlind Theatre

OPEN TALK SESSION #5 — 10:25 A.M. Berlind Theatre

10:25 Brad Buchsbaum
Auditory or articulatory coding in verbal short-term memory: Old question, new patterns

10:45 Jordan Poppenk
Genetic control over the human hippocampus

10:55 Sara Mednick
Parasympathetic activity drives memory consolidation during sleep

11:05 Sean Polyn
Integration and disruption of category-specific oscillatory activity

11:15 Rosanna Olsen
Medial temporal lobe subregion volume reductions are associated with preclinical cognitive decline

BAG LUNCH — 11:30 A.M. Tent

EXCURSION — 12:00 P.M. Grounds for Sculpture

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