

Thursday Evening

5:30 Registration and Welcome Reception

6:20 Opening Remarks

SPATIAL BEHAVIOR AND COGNITION I (Ron Weisman, Chair)

6:30 Alan C. Kamil (University of Nebraska, Lincoln and Nebraska Behavioral Biology Group) The Use of Landmarks During Navigation

6:55 Bill Roberts, Ben Abrams, Karen Kit & Leanne Bird (University of Western Ontario) Memory for Hoarded Food in Rats on the Radial Maze

7:20 Sue Healy & Robert Biegler (University of Edinburgh) Duration of Memories of Features and of Locations in Songbirds: Differences Between Species

7:30 Donald M. Wilkie, Christina M. Thorpe, Stanley B. Floresco & Jason A. R. Carr (University of British Columbia) Lesions of the Prefrontal Cortex in Rats Produce Mild Impairments on a Time-place Learning Task

7:40 Discussion

7:45 Aleida Goodyear (University of Nebraska) Nutcrackers use Distance and Direction from Landmarks

7:50 France Landry & Catherine Plowright (University of Ottawa) Spatial Dimensions in Pattern Recognition in Pigeons

7:55 Erica A. Hoy & Sarah T. Boysen (Ohio State University) Comprehension of Spatial Video Images by Chimpanzees

8:00 Jennifer E. Sutton & William A. Roberts (University of Western Ontario) Pigeons' Use of Landmark Configuration as a Discriminative Cue to Goal Location

8:05 Discussion

8:10 Break

FUNCTION AND MECHANISM IN LEARNING (Mark Bouton, Chair)

8:25 Mike Domjan (University of Texas at Austin) Towards a New Functional Perspective on Pavlovian Conditioning

8:50 Allen Neuringer (Reed College) Operant Variability

9:15 Karen L. Hollis, Kristen Langworthy, Mary C. Romano & Julie A. Siegenthaler (Mount Holyoke College) Learned Cues Provide Subordinate Males with Sneaky Tactics to Secure Food

9:40 Raymond Chang & Ralph R. Miller (SUNY-Binghamton) The Role of Context in Excitatory Background Conditioning

9:45 Rob Sorge & Linda Parker (Wilfrid Laurier University) THC Interferes with the Establishment of Place Conditioning.

9:50 Nina L. Turner (Kansas State University), Jerome Frieman (Kansas State University), Ronald Mehiel (Shippensburg University) & Erin Douglas (Kansas State University) Evidence for Extinction of a Flavor Preference

9:55 Discussion

10:15 PARTY!

Friday Afternoon

DISCRIMINATION LEARNING (Greg Fetterman, Chair)

- 12:30 Sheila Chase & Eric G. Heinemann (Hunter College of the City University of New York) Control of Pigeon's Choices by Compound Stimuli
- 12:55 Douglas S. Grant (University of Alberta) Matching with Feature-present and Feature-absent Samples in Pigeons
- 1:05 Thomas Zentall & Tricia Clement (University of Kentucky) Base-rate Error in Pigeons
- 1:15 Jeffrey S. Katz (Auburn University) & Anthony A. Wright (University of Texas Medical School at Houston) Two-Item Same/Different Concept Learning by Pigeons
- 1:20 Discussion
- 1:25 Debbie M Kelly, Marcia L. Spetch, Douglas R. Wong-Wylie & Walter F. Bischof (University of Alberta) Differences in the Detection of Random Dot Patterns by Pigeons and Humans
- 1:30 Shelley Roberts, Valerie Parkison, Aaron Blaisdell & Robert Cook (Tufts University) Attention and Memory in the Pigeon
- 1:35 Leanne R. Willson & Michael R. W. Dawson (University of Alberta) Distributed Representations in Models of Discrimination Learning
- 1:40 Karyl Swartz (Lehman College/CUNY), Robert Shumaker (SINZP) & Willie Smits (Wanariset Samboja) Habituation and Novelty Responses by Young Orangutans
- 1:45 Discussion
- 1:50 Break

CATEGORIES, CONCEPTS, & OBJECTS (Robert Cook, Chair)

- 2:00 Hank Davis & Lisa Collis (University of Guelph) Discrimination of Familiar Humans by Honeybees
- 2:10 Masako Jitsumori (Chiba University) Categorization of Morphed Images of Human Faces by Pigeons
- 2:20 Heidi Harley (New College of the University of South Florida & Disney's Epcot's Living Seas) & Erika Weber (Disney's Epcot's Living Seas) Mechanisms for Cross-modal Matching by the Bottlenose Dolphin
- 2:30 Discussion
- 2:35 Stan Kuczaj (University of Southern Mississippi), Amy Salmela (Marine Life Oceanarium) Sea Lion Discrimination of Photographs of Human Faces
- 2:40 Jennifer Vonk & Suzanne MacDonald (York University) Abstract Concept Formation in a Young Captive Gorilla (*Gorilla gorilla*)
- 2:45 Ulrike Aust & Ludwig Huber (University of Vienna) Target-defining Features in the Classification of People-present/People-absent Pictures by Pigeons
- 2:50 Discussion
- 2:55 Jessie J. Peissig, Edward A. Wasserman (University of Iowa), Michael E. Young (Southern Illinois University), Irving I. Beiderman (University of Southern California) Object Recognition in Pigeons: The Effects of a Dynamic Light Source
- 3:00 Karissa Tranel & Stan Kuczaj (University of Southern Mississippi) Do Captive Atlantic Bottlenose Dolphins (*Tursiops truncatus*) Use Absolute Size or the Abstract Concept of Relative Size When Solving a Relational Match-to-sample Task?
- 3:05 Discussion
- 3:10 Break

NEW METHODS & OPPORTUNITIES (Suzanne MacDonald, Chair)

- 3:40 Russell Church (Brown University) Secondary Data Analysis
4:05 Hiroshi Makino (Chiba University) Introduction of a New Model of MPP (Multistimulus, Portable and Programmable) Conditioning Panel for Pigeons
4:10 Discussion

TIME, NUMBER, & SERIAL LEARNING (Suzanne MacDonald, Chair)

- 4:15 James D. Rowan (Weslyan College, GA), Barbara E. Rowan (Mercer University), Shannon M. A. Kundey & Chrissy L. Miner (Wesleyan College, GA) Serial-pattern Extrapolation in Rats: If You "Hum" a Few Bars, They Can Fake It - Sort Of
4:25 Jonathon D. Crystal (University of Georgia) Timing Inter-reward Intervals
4:30 Chris Hope & Angelo Santi (Wilfrid Laurier University) Systematic Errors in Memory for Number: Additional Evidence for a Dual-mode Model of Time and Number Processing.
4:35 Discussion
4:40 Andrew Miki, Angelo Santi (Wilfrid Laurier University) Stimulus Properties and Timing: The Filled Interval Illusion in Rats
4:45 Shannon M.A. Kundey, James D. Rowan, Chrissy L. Miner & Asha H. Smith (Wesleyan College, GA) Flexibility in the Representation of Rules in Rat Serial Pattern Learning: Transfer From Short Chunks to Long Chunks
4:50 Chrissy L. Miner, James D. Rowan, Shannon M. A. Kundey & P. Taylor Johnson (Wesleyan College, GA) Flexibility in the Representation of Rules in Rat Serial Pattern Learning: Transfer From Long Chunks to Short Chunks
4:55 Discussion
5:00 Break

IN HONOR OF STEWART HULSE (Steve Fountain, Chair)

- 5:10 William Roberts (University of Western Ontario) Stew Hulse and Comparative
5:20 Stephen B. Fountain (Kent State University) Constructing Sequential Behavior
5:45 Ron Weisman (Queen's University) How Stew Hulse and I Discovered that Songbirds Perceive, Produce and Recognize Relative Pitch
6:10 Scott MacDougall-Shackleton (University of Toronto) Auditory Scene Analysis by Nonhuman Animals
6:35 Edward A. Wasserman (University of Iowa) Instructed and Uninstructed Relational Perception by Pigeons
7:00 Stewart H. Hulse (Johns Hopkins University) A Few Words
7:10 Discussion

BANQUET

Saturday Morning

8:00 Business Meeting of the Comparative Cognition Society

MEMORY PROCESSES (Michael Brown, Chair)

9:00 Anthony Wright (University of Texas Medical School at Houston) Interference Among List Items Plays a Crucial Role in Monkey Auditory Memory

9:25 Robert R. Hampton (Laboratory of Neuropsychology, NIMH) Explicit Recall of Visual Memories by Macaque Monkeys.

9:50 Marise B Parent (Georgia State University) Glucose and Emotional Memory: From Rodents to Humans.

10:00 Discussion

10:05 Robert Cook, Aaron Blaisdell, Deb Levison, Sarah Gillette (Tufts University) How Big is Avian Long-term Associative Memory?

10:10 Mira Belik (University of Nebraska) Use of Symbolic Priming to Facilitate Visual Search in the Blue Jay

10:15 Discussion

10:20 Break

LEARNING PROCESSES (Ralph Miller, Chair)

10:30 Martha Escobar, Francisco Arcediano & Ralph R. Miller (SUNY - Binghamton) Latent Inhibition in Man and Beast (presented by R. Miller)

10:55 Francisco Arcediano, Martha Escobar, Ralph R. Miller (SUNY-Binghamton) Backward Associations and Bidirectionality of Associations in Man and Beast

11:20 Andy Baker, Robin Murphy & Christine Darredeau (McGill University) Two Cue Blocking in Humans and Rats

11:45 Mark Bouton, Ceyhun Sunsay (University of Vermont) Trials versus Accumulating Time in Trials in a Partial Reinforcement Procedure

11:55 Linda Parker (Wilfrid Laurier University) Amphetamine and Morphine Produce a Conditioned Taste Preference in the Emetic Species, *Suncus urinus* (House Musk Shrew)

12:05 Discussion

12:10 Cody Brooks, Jonna Bowker (Cal. State Fresno), Erica Pflaum & Holly Nagel (Denison University) Enhancing Spontaneous Recovery

12:15 John Batson, W. Robert Batsell, Jr. (Furman University) Order of Conditioning Sequences Determines Potentiation

12:20 Amanda Napolitano, Sarah Boysen (Ohio State University & Emory University) & Vladimir Sloutsky (Ohio State University) Modality Preference in Learning: A Comparison Between Young Children and Chimpanzees (*Pan troglodytes*)

12:25 Discussion

Saturday Afternoon

PURPOSE, SYMBOL, & SELF (Sara Shettleworth, Chair)

- 2:05 Mary Jo Rattermann (Franklin & Marshall College) & Dedre Gentner (Northwestern University) The Effect of Symbol Training on Young Children's Analogical Reasoning
- 2:15 John D. Gory & Stan A. Kuczaj III (Southern Methodist University & The Living Seas, Epcot Center, Walt Disney Co) More Planning by Bottlenose Dolphins
- 2:20 Discussion
- 2:25 Heather M. Hill & Stan Kuczaj, II (University of Southern Mississippi) What do Dolphins See When They Look in a Mirror?
- 2:30 Victoria Shaffer (Ohio State University) & Michael Renner (West Chester University) Mirror, Mirror: Black and White Colobus monkeys Do Not Show Self-recognition Behavior
- 2:35 Discussion

EFFORT & BEHAVIOR (Sara Shettleworth, Chair)

- 2:40 Steven Stout (SUNY - Binghamton), Robert Bouner and Mauricio Papini (Texas Christian University) Different Sources of the Frustration Effect in Rats and Pigeons: Evolutionary Implications
- 2:50 Karen Roper & Lynn Porter (Wake Forest University) The Effect of Prior Work Experience on Rats' Effort Decisions
- 2:55 Ari Kirshenbaum, Allen Szalda-Petree & Nabil Haddad (University of Montana) The Effects of Magnified Effort Conditions on the Response to Resource Variability
- 3:00 Discussion
- 3:05 Break

SPATIAL BEHAVIOR AND COGNITION II (Tom Zentall, Chair)

- 3:20 Sara J. Shettleworth (University of Toronto) Associations, Maps, and Modules in Animal Spatial Learning
- 3:45 Victoria Braithwaite, Sue Healy & Susannah Braham (University of Edinburgh) Are There Sex Differences in Spatial Memory?
- 4:10 Jerome S. Cohen & Krissy Bussey (University of Windsor) The Role of Cognitive Maps on Rats' Working Memory in the 4-arm Enclosed Radial Maze
- 4:35 Michael Brown, Elizabeth DiGello (Villanova University) Negative Information and Control by Spatial Patterns
- 4:45 Brett Gibson (University of Toronto) Place vs. Response Revisited: Parallel Learning on the Radial Maze
- 4:55 Aaron P. Blaisdell, Sarah R. Gillett & Robert G. Cook (Tufts University) Map Building in Pigeons: Support for an Integrator
- 5:05 Discussion
- 5:10 Break

SOCIAL COGNITION AND COMMUNICATION (Stan Kuczaj, Chair)

- 5:20 Jill Goldman & Suzanne MacDonald (York University) Acoustic Communication in Common Marmoset Monkeys (*Callithrix jacchus jacchus*): Measurements of Transmissions and Responses
- 5:45 Jennifer Mather (University of Lethbridge) Do Squid Make a Language on their Skin? The Case of the Zebra
- 6:10 Roger Thompson, Mary Jo Rattermann, Elizabeth E. K. Taylor & Lara P. Cascallar (Franklin & Marshall College) What's Social about Primate Social Cognition?
- 6:35 Richard Holland (University of Nebraska) Social cognition and the Evolution of Intelligence in Corvids
- 6:45 Ludwig Huber (University of Vienna) Emulation Learning in Keas (*Nestor notabilis*)
- 6:55 Discussion
- 7:00 Jack P. Hailman (Archbold Biological Station) Is Vocal Learning of Chickadee "Gargle" Calls Cognitive?
- 7:05 Stephanie Gibeault & Suzanne MacDonald (York University) Vocal Communication in Western Lowland Gorillas
- 7:10 Laura Powell (University of Southern Mississippi) & Joan Sinnott (University of South Alabama) Perceptual differences in English, Spanish, and Monkey Listeners for Voicing Contrasts
- 7:15 Discussion



Coauthors and Discussants

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