

International Conference on Comparative Cognition

The International Conference on Comparative Cognition

March 12 to March 14, 1998



The Program:

All sessions held in the first floor meeting rooms of the Melbourne Beach Hilton Hotel. Receptions in the Hospitality Suite.

Thursday, March 12, 1998

4:30-6:00 PM * **Welcome reception***

7:30-10:30 PM--Marcia Spetch, Chair

5-min papers

Memory and Cognition in Primates

- **Eric A. Anderson**, H.S. Terrace, Columbia University, Recall of arbitrary lists by rhesus macaques.
- **Karyl Swartz**, Lehman College/CUNY, Free recognition: A procedure for investigating memory in nonhuman primates.
- **Elizabeth M. Brannon**, H.S. Terrace, Columbia University, Rhesus monkeys transfer an ordinal rule novel numerosities.
- **Sally Boysen**, Valerie A. Kuhlmeier, Gary G. Bernstein, Ohio State University, "Boys will be boys": Comprehension of scale model representations by chimpanzees.

5-min question period

Spatial Cognition

- **Debbie M. Kelly**, Tufts University, Marcia Spetch, University of Alberta, Donald Heth, University of Alberta, Pigeons' encoding of geometric and featural properties of a spatial environment.
- **Michael Drew**, Michael F. Brown, Villanova University, Exposure to spatial cues facilitates visual discrimination but not spatial guidance.
- **Suzanne MacDonald**, York University, Marcia Spetch, University of Alberta., Ken Cheng, MacQuarie University, Landmark use by marmosets in an open- field foraging task.
- **Anthony McGregor**, Sue Healy, University of Newcastle, Spatial memory in food-storing and non-storing birds.
- **Victoria Braithwaite**, Joanna Girvan, Edinburgh University, Population differences found in spatial learning and memory ability in three-spined sticklebacks.

5-min question period

Learning and Behavior

- **Jesse Purdy**, Adam Ferguson, Amy Sieve, Southwestern University, Goldfish goaltrack, why?
- **Chana K. Akins**, University of Kentucky, The nature of the sexually conditioned response: CS-US interval and CS feature parameters.
- **Charles Flaherty**, Rutgers University, Carmen Torres Bares, University of Jan, Spain, Cynthia Coppotelli, Rutgers University, Use of the elevated plus maze to investigate drug interactions
- **Hernan Savastano**, Aaron Blaisdell, Ralph R. Miller, SUNY-Binghamton, Competition between potential comparator stimuli in the CS-preexposure effect.
- **Martha Escobar**, Mirko Gerolin, Francisco Arcediano, Helena Matute, SUNY-Binghamton, Evidence of bidirectional associations.

5-min question period

10-min break

Categorization

- **Robert Cook**, Deb Kelly, Jeff Katz, Tufts University, Rapid sequential same/different learning in pigeons.
- **Janice N. Steirn**, Kelli W. Taylor, Georgia Southern University, Conditioned transitive inference in pigeons.
- **Thomas R. Zentall**, Tricia S. Clement, Joe Feltus, Daren H. Kaiser, University of Kentucky, (Not-so-)simple simultaneous discrimination learning.
- **Ludwig Huber**, University of Vienna, A synthetic approach towards pigeon natural categorization.
- **Chris Sturdy**, Leslie Phillmore, Jennifer Price, Ron Weisman, Queen's University, Conspecific Song Note Category Discrimination in Zebra Finches (*Taeniopygia guttata*)

5-min question period

Vocalization and perception

- **Jill Goldman**, Suzanne MacDonald, York University, "Chirping" in marmosets (*Callithrix jacchus jacchus*): Acoustic characteristics.
- **Louise Berry**, Suzanne MacDonald, York University, Vocalizations and communications within a common marmoset family (*Callithrix jacchus jacchus*) to food and novel objects.
- **Leslie Phillmore**, Chris Sturdy, Ron Weisman, Queen's University, Is Amplitude an Effective Auditory Distance Cue?
- **Patricia D. Cole**, Bruce Moore, Dalhousie University, Mimetic learning in the Java Hill Mynah.

5-min question period

25-minute talk:

- **Ron Weisman**, Queen's University, The future of comparative cognition.

Friday, March 13, 1998

3:00 PM to 7:45 PM--Ed Wasserman, Chair

25-min talks

Spatial Cognition 2

- **Bill Roberts**, Laura Hogarth, Jennifer Sutton, University of Western Ontario, Landmarks and spatial cognition in animals.
- **Michael Brown**, Villanova University, Spatial pattern learning.
- **Jerry Cohen**, Heidi Solway, Tracy Ouellette, University of Windsor, To exit or not to exit (the radial maze) is the question.
- **Sue Healy**, University of Newcastle, Memory for space and colour in food storers.
- **Robert Biegler**, University of Newcastle, A comparative analysis of navigation and how it relates to cognitive mapping and associative learning.

15 min snack break

Contexts, concepts, and uncertainty

- **Sara Shettleworth**, Leslie Sole, University of Toronto, Uncertainty in the pigeon.
- **Michael E. Young**, Ed Wasserman, University of Iowa, Successive same-different discrimination in pigeons: Data and theory.
- **Ronald J. Schusterman**, David A. Kastak, Colleen J. Reichmuth, U.C.S.C., Long Marine Lab, Equivalence theory as a problem solving model for marine mammals.
- **Stewart Hilliard**, Michael Domjan, University of Texas at Austin, One-trial appetitive conditioning: Sexual learning about context.

Saturday, March 14

3:00 PM to 7:00 PM--Suzanne MacDonald, Chair

25-min talks

Timing

- **Ralph R. Miller**, James Denniston, Daniel Burger, SUNY-Binghamton, Temporal encoding in Pavlovian inhibition.
- **Kimberly Kirkpatrick**, Brown University, Application of the timing process to classical conditioning.

- **Angelo Santi**, James Coyle, Romina Coppa, Lori Ross, Wilfrid Laurier University, Pigeons' memory for filled and empty time intervals marked by visual or auditory signals.
- **Russell M. Church**, Brown University, A modular approach to timing theory.
- **Melissa Bateson**, Duke University, Species differences in timing intervals with gaps -- what do they mean?
- **Don Wilkie**, University of British Columbia, Jason Carr, University of British Columbia, Understanding rat's errors in a time-of-day discrimination. *(5-min talk)*

15 min snack break

Primate Cognition

- **Joel Fagot**, CNRS-CRNC, Marseille, Christine Deruelle,, CNRS-CRNC, Marseille, Masaki Tomonaga, Kyoto University, Comparative assessment of global/local processing in humans, chimpanzees and baboons.
- **Roger Thompson**, Franklin & Marshall College, David Oden, La Salle University, David Washburn, Georgia State University, Virginia Gunderson, University of Washington, "The use of symbols depends upon the recognition of similarity, and not the reverse" (K. Lashley 1929). Was Lashley right? Lessons from monkeys and apes.
- **Shoji Itakura**, Amy Scott, Michael Tomasello, Emory University, Chimpanzees' use of behavioral cues to locate food. *(5-min talk)*

Saturday, March 14, 10:00 PM to 1 AM: Party

Observer/Discussants:

- Francisco Arcediano, SUNY-Binghamton
 - Aaron Blaisdell, SUNY-Binghamton
 - Daniel Burger, SUNY-Binghamton
 - James Denniston, SUNY-Binghamton
 - Michael Domjan, University of Texas at Austin
 - Nancy Innis, University of Western Ontario
 - Kelli W. Taylor, Georgia Southern University
 - Marcia Spetch, University of Alberta
 - Fred Stollnitz, National Science Foundation
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