

The International Conference On Comparative Cognition

March 16 to March 18, 2000



Melbourne Beach Hilton Hotel
Melbourne Beach, Florida

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- with the cooperation of the School of Psychology, Florida Tech, Melbourne, Florida and the University of Alberta, Edmonton, Alberta, Canada

CO3 Steering Committee:

Mark Bouton, University of Vermont

Marcia Spetch, University of Alberta

Ed Wasserman, University of Iowa

R. Weisman, Queen's University (Chair)

Suzanne MacDonald, York University

Thursday evening, 6:30 PM to 10 PM

Concepts, Category Learning and Communication--Suzanne MacDonald, Chair

- **Ed Wasserman** (University of Iowa and Center for Research in Cognitive Neurosciences), **Joel Fagot** (Center for Research in Cognitive Neurosciences), **Michael E. Young** (University of Iowa): Same-different conceptualization by baboons (*Papio papio*): The role of entropy. 10 min
- **Joel Fagot** (Center for Research in Cognitive Neurosciences), **Michael Young** (University of Iowa), **Ed Wasserman** (University of Iowa and Center for Research in Cognitive Neurosciences): Relational matching by baboons. 10 min
- **Ilona Kovary**, H.S. Terrace, L. Brannon (Columbia University): The acquisition of numerical categories by rhesus macaques (*Macaca mulatta*). 10 min
- **Jennifer Vonk**, Suzanne MacDonald (York University): Natural concept formation in orangutans (*Pongo pygmaeus*). 5 min
- **Jeffrey S. Katz**, Anthony A. Wright, Jocelyne Bachevalier (University of Texas Medical School at Houston): Monkey concept learning. 5 min
- **Bob Cook** (Tufts University): Rule-based same-different learning by pigeons. 5 min
- **Stephen Lea**, Darren Burke (University of Exeter): Field experiments on concept discrimination in grey squirrels. 10 min
- **Ron Weisman**, Chris Sturdy, Leslie Phillmore (Queen's University): Natural auditory categories behave like screen-based visual categories. 20 min

10 minute break

Associative learning I--Ed Wasserman, Chair

- **Bob Batsell** (Kalamazoo College), **John Batson** (Furman University). Asymmetrical associations in augmentation? 10 min
- **Francisco Arcediano**, Daniel C. Burger, Martha Escobar, Ralph R. Miller (SUNY-Binghamton): Backward associations in humans. 5 min
- **Chana Akins, N. Levens** (University of Kentucky): The nature of the sexually conditioned response using auditory versus visual conditioned Stimuli. 5 min

- **Stanley J. Weiss** (American University), Leigh V. Panlilio (NIDA), David N. Kearns, Scott I. Cohn (American University) and Charles W. Schindler (NIDA): Biological constraints and appetitive-aversive interaction theory: An application to selective associations. 20 min
- **Andy Baker** (McGill University) : Animal and human contingency learning: Radical behaviorism versus theory? 20 min

10 minute break

Communication, symbol and tool use--Mark Bouton, Chair

- **Karen Hallberg**, Sally Boysen, Kimberly Mukobi (Ohio State University): Chimpanzee food barks as referential signals: Evidence from a laboratory playback experiment. 5 min
- **Stephanie Gibeault**, Suzanne MacDonald (York University): Playback experiments with captive western lowland gorillas: preliminary results. 5 min
- **Karyl B. Swartz** (Lehman College/CUNY): Organization of memory by an orangutan. 10 min
- **Michael J. Beran** (Language Research Center, Georgia State University): Lana chimpanzee's 20-year retention of lexigrams. 5 min
- **Mary Jo Rattermann**, Roger Thompson, Theresa Franz, Andrei Cimpian, Melissa Hopkins (Franklin and Marshall College): Tool use in 12-18 month-old children and capuchin monkeys (*Cebus apella*) during a reaching task. 10 min

Friday evening, 4 PM to 8 PM

Face and object discrimination--Marcia Spetch and Debbie Kelly, Chairs

- **Marcia Spetch** (University of Alberta): Recognition of depth-rotated objects by pigeons and humans. 5 min
- **Jack P. Hailman** (Archbold Biological Station): Object concept: mini-review and experiments beyond permanence. 20 min
- **Valerie A. Kuhlmeier** and Sally Boysen (Ohio State University): Scale model comprehension by chimpanzees: Recognition of object and spatial similarity. 5 min
- **Aaron P. Blaisdell**, Frank Diaz, Bob Cook (Tufts University): Comparative psychology of face perception. 5 min
- **Sharon Himmanen** (Lehman College, CUNY): Memory for social attributes of facial stimuli by rhesus monkeys (*Macaca mulatta*). 10 min
- **Jerry Cohen**, Nicole Terrelonge (University of Windsor): Value transfer and reward signaling functions of S- in object discriminations. 10 min
- **Roger Thompson**, David Oden, Megan Hyle, Erica Hoy, Marc Rapuano, Jason Safro (Franklin & Marshall College): Habituation and dishabituation to physical and relational properties of objects by Capuchin monkeys (*Cebus apella*). 10 min

10 min break

Associative learning II--Mark Bouton, Chair

- **Brian H. Smith**, Sathees Chandra (Ohio State University): The genetic basis underlying variability in latent inhibition and its potential role in a social context. 20 min
- **Martha Escobar**, Francisco Arcediano, Ralph R. Miller (SUNY-Binghamton): Context exposure modulates the CS- preexposure effect. 5 min
- **Melissa Burns**, Michael Domjan (University of Texas at Austin): Effects of exposure to contextual stimuli on the direction of conditioned responding. 20 min
- **Mark E. Bouton**, Ceyhun Sunsay (University of Vermont): Surprise, frustration, and the contextual control of appetitive conditioning. 10 min
- **Kimberly Kirkpatrick**, Russell M. Church (Brown University): Tracking of expected times until food in classical conditioning procedures. 20 min

10 min break

Memory and cognition--Ed Wasserman, Chair

- **Lori Buchanan**, Marcia Spetch, Debbie Kelly (University of Alberta): False Memory in Pigeons? 5 min
- **Sue Healy** (University of Edinburgh), T. Andrew Hurly (University of Lethbridge): Learning and memory in rufous hummingbirds. 20 min
- **Tammy Moscrip**, Herb Terrace (Columbia University), Holly Lisanby, Harold Sackheim (NYSPI & Columbia University): Cognitive and neurophysiological effects of transcranial magnetic stimulation in rhesus macaques. 5 min
- **Michael F. Brown**, Elizabeth DiGello (Villanova University): Psychology of a superorganism: The matching law, honeybees, and a honeybee colony. 5 min
- **Thomas Zentall**, Tricia Clement, Jessica Allen (University of Kentucky): "What did you just do?": Episodic-like memory in pigeons. 10 min.

- **Alex Kacelnik**, Jackie Chappell (University of Oxford), Juan Rebores (University of Buenos Aires), Rebecca Smith, Fausto Brito Abreu (University of Oxford): Scalar utility and risky choice in magpies, starlings, cowbirds and humans. 20 min

Saturday evening, 4- 8 PM

Time, space and foraging--Marcia Spetch, Chair

- **Brett M. Gibson** (University of Toronto): Use of vector information but not cognitive maps for flexible navigation by Clark's nutcrackers and humans. 10 min
- **Debbie Kelly**, Marcia Spetch (University of Alberta) : Pigeons' use of geometric information to locate a goal. 5 min
- **Charles F. Flaherty**, Mary Leszczuk, Danielle Mennona (Rutgers University): Reward reduction and searching patterns in a radial-arm maze. 10 min
- **Shunji Awazu**, Kazuo Fujita (Kyoto University): Transfer from cognitive food category to eating behavior in pigeons. 5 min
- **James D. Rowan** (Wesleyan College), Barbara E. Rowan (Georgia College and State University), Shannon Kunder, Christina Miner (Wesleyan College): Serial-pattern extrapolation in rats: If you "hum" a few bars, can they fake it? 10 min
- **Robert Biegler**, S. D. Healy (University of Edinburgh): Does food storing increase the capacity, duration or accuracy of spatial memory? 10 min
- **Melissa Bateson** (University of Newcastle, UK): Risk-sensitive foraging: context-dependent choice in two bird species. 20 min

10 minute break

- **Kazuo Fujita**, Tetsuro Matsuzawa, Aika Tokuhisa (Kyoto University): Spatio-temporal boundary formation in chimpanzees. 10 min.
- **Steven Haggblom** (Arkansas State University): More searching for abstract pattern learning in the radial maze. 5 min.
- **Donald M. Wilkie**, Christina M. Thorpe (University of British Columbia): "Time-place behavior" under unequal intervals. 5 min.
- **Jonathon D. Crystal** (University of Georgia): Circadian time perception. 10 min.
- **Russell M. Church**, Kim Kirkpatrick (Brown University): Data archiving. 10 min.
- **Hank Davis** (University of Guelph): Discrimination Between humans by animal subjects: A comparative approach. 25 min.

10 minute break

Cognition in marine animals--Suzanne MacDonald and Stephanie Gibeault, Chairs

- **Stan Kuczaj**, Marie Trone, Heather Hill, Karissa Tranel (University of Southern Mississippi): What can dolphin play tell us about dolphin cognition? 10 min.
- **Stan Kuczaj** (University of Southern Mississippi), John Gory (Southern Methodist University and The Living Seas, Epcot Center): Can bottlenose dolphins plan their behavior? 10 min.
- **Heather Hill**, Stan Kuczaj (University of Southern Mississippi): Sea lions use mirrors when searching for objects. 5 min.
- **Jesse E. Purdy**, Marte Martinez (Southwestern University), Matthew Purdy (Trinity University): Auditory and visual stimuli as determinants of anti-predatory behavior of salmon in salmon/killer whale interactions. 20 min.

Perspectives--Ron Weisman, Chair

- **Fred Stollnitz** (National Science Foundation): Funding opportunities at NSF. 5 min.
- **GROUP PHOTO** 5 min.
- **Business meeting**: The first annual comparative cognition society meeting. 30 min.

PARTY! 9 PM to??

Observers:

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| Christina Thorpe (University of British Columbia) | Geoff Hall (University of York) |
| Karen Hollis (Mount Holyoke College) | Janice Steirn (Georgia Southern University) |
| Karen Roper (Wake Forest University) | Herb Terrace (Columbia University) |
| Sara Shettleworth (University of Toronto) | Amanda Napolitano (Ohio State University) |
| Jared Tagliatela (Georgia State Univ Language Rsrch Ctr) | Theresa Franz (Franklin and Marshall College) |
| Lauren Baker (Georgia State University) | Kymbr Wright (University of Southern Mississippi) |
| Tokuhisa Aika (Kyoto University) | Sally Boysen (Ohio State University) |
| Chrissy Miner (Wesleyan College) | Shannon Kunder (Wesleyan College) |
| Marie Trone (University of Southern Mississippi) | Suzanne MacDonald (York University) |

Kymbr Wright (University of Southern Mississippi)

Diana Lee (California State University)

Rachel Thames (University of Southern Mississippi)

Maurice Feldman (Queen's University)

Sheila Chase (Hunter College, CUNY)

Marc Rapuano (Franklin & Marshall College)

Eric Hoy (Franklin & Marshall College)

Karissa Tranel (University of Southern Mississippi)

Diana Lee (California State University)

John Batson (Furman University)

John Gory (Southern Methodist University and the Living Seas, Epcot Center)

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