Contents

Preface	ix
Photograph of Animal Cognition Conference Participants	xii
I. Introduction	
1. Animal Cognition: An Approach to the Study of Animal Behavior Thomas R. Zentall	3
II. Stimulus Representation	
2. The Stimulus Revisited: My, How You've Grown! W. K. Honig	19
3. When Is a Stimulus a Pattern? Anthony A. Wright	35
4. Discriminative Stimulus Control: What You See Is Not Necessarily What You Get David R. Thomas	43
5. Generalization Gradients of Excitation and Inhibition: Long-Term Memory for Dimensional Control and Curious Inversions During Repeated Tests With Reinforcement Eliot Hearst and Serena Sutton	63

6. Retrieval Processes and Conditioning Philipp Kraemer and Norman E. Spear	87
III. Memory Processes	
7. When Memory Fails to Fail Dennis C. Wright	111
Dennis C. Wright	
8. Foraging in Laboratory Trees: Spatial Memory in Squirrel Monkeys	131
William A. Roberts, Stephen Mitchell, and Maria T. Phelps	101
9. Sequential and Simultaneous Choice Processes	
in the Radial-Arm Maze	153
Michael F. Brown	
10. Representations and Processes in Working Memory	175
Herbert L. Roitblat	
11. Coding Processes in Pigeons	193
Douglas S. Grant	
12. Common Coding and Stimulus Class Formation	
in Pigeons	217
Thomas R. Zentall, Lou M. Sherburne, and Janice N. Steirn	
IV. Perceptual Processes	
13. Attention: Neurocognitive Analyses	239
David S. Olton, Kevin Pang, Fred Merkel, and Howard Egeth	
14. Gestalt Contributions to Visual Texture Discriminations	
by Pigeons	251
Robert G. Cook	
15. Multidimensional Stimulus Control in Pigeons:	
Selective Attention and Other Issues	271
Diane I Chatlash and Edward A Wasserman	

	CONTENTS	VI
16. From Elementary Associations to Animal Cognition Connectionist Models of Discrimination Learning William S. Maki	:	293
17. A Comparative, Hierarchical Theory for Object Recognition and Action Mark Rilling, Luke LaClaire, and Mark Warner		313
18. Absolutes and Relations in Acoustic Perception by Songbirds Stewart H. Hulse		335
Author Index		355
Subject Index		365