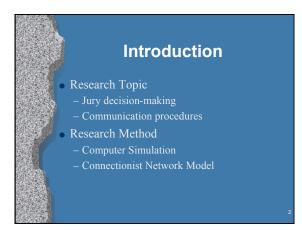
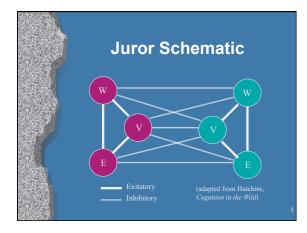
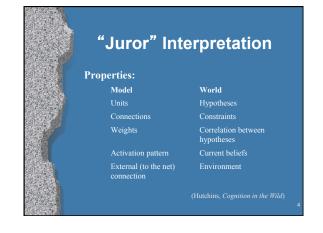
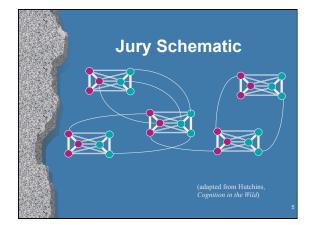
Computer Simulation of the Effects of Communication Procedures on the Jury Decision-Making Process

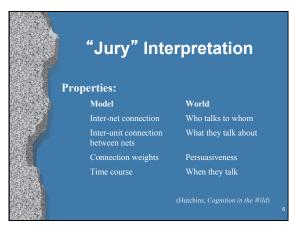
Stephen L. Henty COGS 131, "Distributed Cognition Hutchins and Hollan Winter 1999

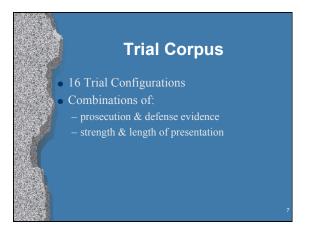


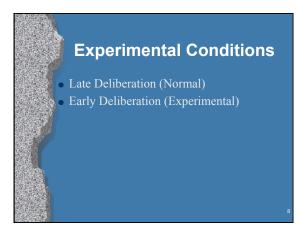




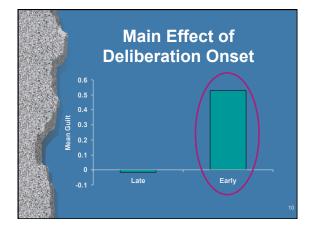


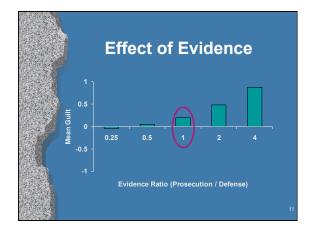


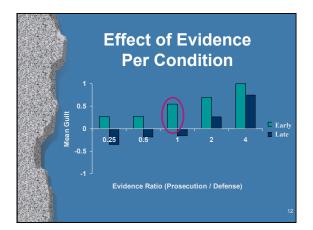




Results			
	Avg. Time (cycles)	Guilty Ratio	Correlation
Late	58.4	49.2 %	-0.30
Early	36.9	76.6 %	-0.54
			9







Interpretation

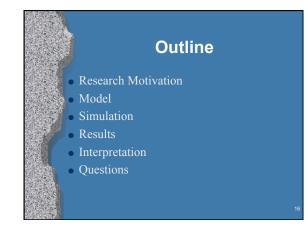
- Early deliberation:

Conclusion • Communication procedures: Main effect on group behavior when individual behavior is held constant

- confirmation bias

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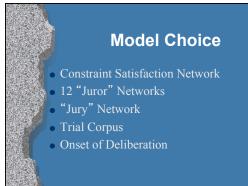


Research Motivation

- Theoretical Motivation
- Practical Motivation
- Previous Jury Research
- Distributed Cognition Approach

Terminology Constraint Satisfaction

- Confirmation Bias
- Connectionist Network





Limitations

- Mapping from constraint network to mental
- Mapping from inter-network communi-
- Mapping from trial corpus to actual trial



- 16 Trial Configurations
- Combinations of:
 - prosecution & defense evidence - strength & length of presentation
- Legend -- Pstr, Plen, Dstr, Dlen
 - Trial configuration "lhhl" is a weak, long prosecution with a strong, short defense



