Tuesday, August 18

2:00 - 9:00 Registration - Residence Hall, Unit 1

6:00 - 9:00 Welcome Reception - Residence Hall Patio

Wednesday, August 19

8:00 - 9:00 Registration

9:00 Opening Remarks

9:15 - 10:15 William Labov
University of Pennsylvania
On Restricting the Meaning of Meaning

Break

10:30 - 11:30 Session 1 155 Dwinelle Hall
Interestingness and Memory for Stories
John B. Black, Steven P. Schwartz, Wendy G. Lehnert

Use of Goal-Plan Knowledge in Understanding Stories
Edward E. Smith, Allan M. Collins

Inferences in Story Comprehension
Raymonde Guindon (sponsored by Alice Healy)

Session 2 155 Dwinelle Hall
Self-Embedding is not a Linguistic Issue
John M. Carroll

Center-Embedding Revisited
Michael B. Kac

The Comprehension of Focussed and Non-Focussed Pronouns
Jeannette A. Gundel, Deborah A. Dahl

Lunch break

12:45 - 1:45 Session 3 155 Dwinelle Hall
The Natural Natural Language Underst aerder
Henry Hamburger, Stephen Crain

Why Do Children Say "Good"? - A Computer Model of Child Generation
Mallory Selfridge (sponsored by Katherine Nelson)

Five Experiments in the Development of the Early Infant Object Concept
George F. Luger, T. G. R. Brower, Jennifer G. Wishart

Session 4 145 Dwinelle Hall
Analogy Generation in Scientific Problem Solving
John Clement

Understanding Design
Gerhard Flicher, Heinz-Dieter Boecker

System Properties of American Law:
Constraints on Applying Cognitive Science
Janet L. Lachman, Roy Lachman

Break

2:00 - 3:00 Session 5 155 Dwinelle Hall
Writing with a Computer
Ira Goldstein

Creating Pleasant Programming Environments for Cognitive Science Students
Marc Eisenstadt, J. H. Laubach, J. H. Kahney

New Tools for Cognitive Science
Leonard Friedman

Session 6 145 Dwinelle Hall
The Cultural Constraints on Models of Cognitive Representation
Alf C. Zimmer

Some Thoughts on Logic, Language, Mind and Reality
Rachel Joffe Falmagne

Time and Cognition: The Domestication of the Maya Mind
Hugh Gladwin

Break

3:15 - 4:15 Session 7 155 Dwinelle Hall
Why Some Modified Class Inclusion Tasks are Easy for Young Children: A Process Model for Finding Referents of Labels in Arrays
Adele A. Abrahamsen

MOPs and Learning
Roger C. Schank

Retrieving General and Specific Information from Stored Knowledge of Specifics
James L. McClelland

Session 8 145 Dwinelle Hall
Can IF be Formally Represented?
D. S. Bree

To See and Not to See, That is the Question
A. Andrewszyk, G. Deloche, D. Bourcier

E/Motional Memory as Mediating Construct
Marianne Wiser (sponsored by Mary Potter)

Relations Between Schemata-Based Computational Vision and Aspects of Visual Attention
Roger A. Brows (sponsored by D. Kahneman)

Session 10 145 Dwinelle Hall
Growing Schemas Out of Interviews
Jerry R. Hobbs, Michael H. Agar

Shaping Explanations: Effects of Questioning on Text Interpretation
Richard H. Granger, Jr. (sponsored by Douglas R. White)

The Need for Context in Event Identity
John M. Morris

Dinner break

7:30 - 9:30 155 Dwinelle Hall
Symposium Goals
Robert Wilensky, Chair
Richard Fikes, Barbara Hayes-Roth, James Levin, Naomi Quinn

Social get-together — location to be announced
Thursday, August 20, 1981

9:00 - 10:00

Robert P. Abelson
Yale University
Constraint, Construal and Cognitive Science

Break

10:15 - 11:35
Session 11 145 Dwinelle Hall
Point of View in Problem Solving
Edwin L. Hutchins, James A. Levin

Representing Problem-Solving Episodes
Arthur M. Farley, David L. McCarty

Where Process-and-Measurement Models Meet:
Evaluation of States in Problem Solving
Jan Drislé (sponsored by Walter Kintsch)

Positive Affect and Creative Problem Solving
Alice M. Isen, Gary P. Nawicki

Session 12 155 Dwinelle Hall
Memory in Story Invention
Natalie Dehn (sponsored by Robert Abelson)

Recognizing Thematic Units in Narratives
Brian J. Rieser, Wendy G. Lehnert, John B. Black
( sponsored by Andrew Ortony)

Using Qualitative Simulation to Generate Explanations
Kenneth Forbus, Albert Stevens

COGNET — Special Session (open meeting)
Allan Newell, Dick Millward

Break

12:45 - 1:45
Session 13 155 Dwinelle Hall
The Role of TAU in Narratives
Michael G. Dyer (sponsored by Wendy Lehner)

Controlling Parsing by Passing Messages
Brian Phillips, James Hendler

A Parser with Something for Everyone
Eugene Charniak

Session 14 155 Dwinelle Hall
Thought Sequences and the Language of Consciousness
Benny Shannon

What Conditions Should a Theory of Consciousness Satisfy?
Bernard J. Baars

The Role of the Observer in Cognitive Science
Richard Hammersley (sponsored by Donald Norman)

Break

2:00 - 4:00 155 Dwinelle Hall
Symposium — Perception
Stephen Palmer, Chair
Alan Gilchrist
Geoffrey Hinton
Paul Kay
Shimon Ulman

Lunch break

4:15 - 5:15
Session 15 155 Dwinelle Hall
Are We Ready for a Cognitive Engineering?
Stuart K. Card, A. Newell

Knowledge Structures of Computer Programmers
Beth Adelson (sponsored by Marilyn Shatz)

Friday, August 21, 1981

9:00 - 10:00 155 Dwinelle Hall

GLISP:
An Efficient, English-Like Programming Language
Gordon S. Novak, Jr.

Session 16 145 Dwinelle Hall
Some Questions About Verbal and Pictoral Representation
Sheldon Richmond

The Relationship Between Human Motion and Objects in the Cognitive Representation of Visual Events
Margot D. Lasher

Toward a Model of Cognitive Process in Cartoon Comprehension
Michael Masson, Inga Boehler
(sponsored by Peter Polson)

Dinner break

6:30 - 7:30 155 Dwinelle Hall
Business Meeting (open meeting)

8:00 - 10:00 155 Dwinelle Hall
Symposium — Affect
George Mandler, Chair
Wendy Lehner
Katherine Lutz
Andrew Ortony
Amos Tversky

Manfred Bierwisch
Academy of Sciences (GDR) — topic to be announced

Break

10:15 - 11:15
Session 17 155 Dwinelle Hall
Demon Timeouts: Limiting the Life Span of Spontaneous Computations in Cognitive Models
Steve Small (sponsored by Chuck Rieger)

The Effects of Integrated Knowledge on Fact Retrieval and Consistency Judgments: When Does it Help, and Does it Hurt?
Lynne M. Reder, Brian H. Ross

A Question Answering Method of Exploring Prose Comprehension: An Overview
Arthur C. Graesser

Session 18 145 Dwinelle Hall
The Role of Context in Cognitive Development
Gideon Carmi

Concept Formation Through the Interaction of Multiple Models
Mark H. Burstein (sponsored by Christopher Riesbeck)

A Simulated World for Modeling Learning and Development
Pat Langley, David Nicholas, David Klahr, Greg Hood

Lunch break

12:45 - 1:45
Session 19 155 Dwinelle Hall
Why Do We Do What We Do
James A. Galambos, John B. Black
(sponsored by Lance Rips)

An Activation-Trigger-Schema Model for the Simulation of Skilled Typing
David E. Rumelhart, Donald A. Norman

Session 20 145 Dwinelle Hall
Skills, Learning, and Parallelism
Aaron Sloman
Cognitive Style and the Learning of a First Computer Language
M. J. Coombs (sponsored by R. Wilensky)

The Concept of E-Machine:
On Brain Hardware and the Algorithms of Thinking
Victor Eliashberg

Break

2:00 - 3:00
Session 21 145 Dwinelle Hall
Invariance Hierarchies in Metaphor Interpretation
Jaime G. Carbonell (sponsored by Philip Hayes)

Dual-System Processing in Language Comprehension
Jan M. Slack

Metaphor as Nonliteral Similarity
Odella Schattin, Hartvig Dahl
(sponsored by Virginia Teller)

Session 22 145 Dwinelle Hall
A Theory of Intelligence
Pieter vanHeerden

A Tetragenic Frame for Modelling Unmediated Knowledge Acquisition
Egon E. Loebner

Surrealistic Imagery and the Calculation of Behavior
Sheldon Klein, David A. Ross, Mark S. Manasse,
Johanna Danos, Mark S. Bickford, Walter A. Burt,
Kendall L. Jensen

Break

3:15 - 4:15
Session 23 145 Dwinelle Hall
Learning with Understanding
James G. Greeno

The Growth of Number Representation:
Successive Levels of Schematic Learning
Lauren B. Resnick

The Role of Experiences and Examples in Learning Systems
Edwina Rissland, Oliver G. Selfridge, Elliot M. Soloway

Session 24 145 Dwinelle Hall
I-Interruption Effects in Backward Pattern Masking:
The Neglected Role of Fixation Stimuli
J. Pascual-Leone, J. Johnson, D. Goodman,
D. Hameluck, L. H. Theodor

Cognitive Load Affects Early Brain Potential Indicators of Perceptual Processing
Jackson Beatty, Francois Richer

The Spatial Representation and Processing of Information in Cognition
Gary W. Strong, Bruce A. Whitehead
(sponsored by John Holland)

Break

4:30 - 5:30 155 Dwinelle Hall

Thomas Kuhn
Massachusetts Institute of Technology
From Revolution to Salient Features

Dinner break

6:30 - 7:30 155 Dwinelle Hall
FRANZ LISP - USERS MEETING
Special Session
Richard Fateman, Keith Sklower