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. Shwartz, 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   145 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
Jeanette A. Gundel, Deborah A. Dahl

Lunch break

12:45 - 1:45
Session 3   155 Dwinelle Hall

The Natural Natural Language Understander
Henry Hamburger, Stephen Crain

**Why Do Children Say "Goed"? —
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 Fischer, 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. Laubsch, 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. Andreewsky, G. Deloche, D. Bourcier

E/Motional Memory as Mediating Construct
Marisa Zavalloni

Break

4:30 - 5:30
Session 9   155 Dwinelle Hall

The Perception of Disoriented Complex Objects
Steven Shwartz (sponsored by Stephen Kosslyn)

The Role of Intrinsic Axes in Shape Recognition
Marianne Wiser (sponsored by Mary Potter)

Relations Between Schemata-Based Computational Vision and Aspects of Visual Attention
Roger A. Browse (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 Dogulas 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 Drösler (sponsored by Walter Kintsch)

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

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

Lunch break

12:45 - 1:45
Session 13   155 Dwinelle Hall

The Role of TAUs in Narratives
Michael G. Dyer (sponsored by Wendy Lehnert)

Controlling Parsing by Passing Messages
Brian Phillips, James Hendler

A Parser with Something for Everyone
Eugene Charniak

Session 14   145 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 Ullman

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)

**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 Lehnert
   Katherine Lutz
   Andrew Ortony
   Amos Tversky

Friday, August 21, 1981

9:00 - 10:00   155 Dwinelle Hall

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 Retrievel
   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

Toward a Formal Theory of Human Plausible Reasoning
Allan Collins, Ryszard S. Michalski

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
Jon 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

7:30 - 9:30   155 Dwinelle Hall
Symposium — Mental Models
Dedre Gentner, Chair
   John Seely Brown
   Andrea diSessa
   Philip Johnson-Laird
   Jill Larkin

Social get-together - location to be announced