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NATIONAL CONFERENCE ON THE USE OF ON-LINE  
COMPUTERS IN PSYCHOLOGY

Sixth Annual Meeting

November 10, 1976

THIRD LEVEL - BUSCH MEMORIAL CENTER

8:00 - 8:45 a.m. CONFERENCE REGISTRATION

All those attending the conference must register upon arrival. Please wear your registration badge at all times.

	FEES	
	Members	Nonmembers
Nonstudent	\$2.00	\$6.00
Student	\$1.00	\$3.00

N.B. Add \$2.00 to these fees for registration after November 1, 1976.

8:30 a.m. - 5:30 p.m. EXHIBITS OPEN

Be sure to visit the exhibits and displays. The exhibit fees help make these conferences possible. The exhibitors are interested in your comments regarding their products and in turn provide you with an opportunity to see and discuss the latest hardware and software developments in on-line computing.

8:30 a.m. COFFEE AND DONUTS

Morning Schedule

SESQUICENTENNIAL ROOM

8:45 - 9:00 a.m.           SESSION I    OPENING REMARKS

Welcoming Remarks: Daniel C. O'Connell, President,  
St. Louis University

Announcements: N. John Castellan, Jr., Indiana University

SESSION II    INVITED ADDRESSES

Presider: Richard Millward, Brown University

9:00 - 9:50 a.m.   The Role of Psychological Models in Computer-Assisted  
Instruction - Patrick Suppes, Stanford University

The use of psychological models in computer-assisted instruction is reviewed and a contrast is drawn between micro models and global models. The possibility of using global models for predictive purposes in the future is emphasized. The talk concludes with some suggestions for a deeper use of micro processing models. Examples and data are drawn from work of the past decade in the Institute for Mathematical Studies in the Social Sciences at Stanford.

10:00 - 10:50 a.m.   The Use of Computer-Generated Synthetic Speech in the Study  
of Speech Production and Perception - Dennis H. Klatt,  
Massachusetts Institute of Technology

A speech-synthesis-by-rule program can be thought of as a functional model of human sentence production. The computer program that will be described and demonstrated is intended to provide an objective test of the adequacy of current linguistic and acoustic/perceptual descriptions of English.

11:00 - 11:15 a.m.           COFFEE BREAK

11:20 a.m. - 12:10 p.m.    SESSION III    PRESIDENTIAL ADDRESS

Presider: Peter G. Polson, University of Colorado

Maximizing the Mini-Uses of On-Line Computers -  
Lee W. Gregg, Carnegie-Mellon University

Since many behavioral and biomedical scientists are still just entering the field of on-line computer applications, this paper will draw on our experiences to provide a decision framework for the acquisition of computer systems for laboratory applications. Also recommended will be ways of creating an effective operating environment that can handle changing needs. Systems developed for our most recent research in eye-movement recording and children's concept learning using the TURTLE will illustrate the design principles for hardware and software components of mini-computer systems.

12:15 - 1:15 p.m.            LUNCHEON                    Sesquicentennial Room

Afternoon Schedule

1:30 - 3:15 p.m.            SESSION IV                    Sesquicentennial Room  
                                  SESSION V                    United States Room  
                                  SESSION VI                    Room 201

3:15 - 3:45 p.m.            COFFEE BREAK

3:45 - 5:00 p.m.            SESSION VII                    Sesquicentennial Room  
                                  SESSION VIII                United States Room  
                                  SESSION IX                    Room 201

5:00 - 5:30 p.m.            BUSINESS MEETING        Sesquicentennial Room

5:30 - 6:30 p.m.            CASH BAR                    President's Dining Room

6:30 - 7:30 p.m.            DINNER                        Sesquicentennial Room

## SESQUICENTENNIAL ROOM

### SESSION IV GENERAL TUTORIALS

Presider: B. J. Starr, Howard University

- 1:30 p.m. Distributed Computing in Psychology: A Tutorial - C. B. Gillman, University of Wisconsin
- 2:15 p.m. SKED Slide Show: An Introductory Overview --K. R. Stephens and F. P. Van Haaren, Western Michigan University

3:15 - 3:45 p.m. COFFEE BREAK

### 3:45 - 5:00 p.m. SESSION VII COMPUTER-BASED TESTING AND MEASUREMENT

Presider: Joseph L. Zinnes, Indiana University

The Effects of Computerized Experimentation on Response Variance - V. Rezmovic, Northwestern University

Procedures for Computerized Testing - M. D. Reckase, University of Missouri, Columbia

Description of Components of Tailored Testing - W. M. Patience, University of Missouri, Columbia

Application of Tailored Testing to Achievement Measurement - R. A. English, University of Missouri, Columbia



UNITED STATES ROOM

1:30 - 3:15 p.m.

SESSION V SYMPOSIUM: COLLABORATION ON  
COMPUTER MODELLING VIA COM-  
PUTER CONFERENCING

Presider and Discussant: Dana B. Main, West Virginia  
College of Graduate Studies

An Overview of the Development of Computer Modelling  
for Instructional and Research Purposes - F. Ruggiero,  
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Using Computer Conferencing to Formulate a Simulation  
Model of the Transitivity of Choice Processes - E.  
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Report of a Collaborative Effort to Formulate a Simulation  
Model - P. Spelt, Wabash College

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Institute for the Future

Computer Facilitation of Communication within Professional  
Communities Using CONFER - K. Zinn, University of  
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Research Foundation of Ontario

ROOM 201

1:30 - 3:15 p.m.

SESSION VI ON-LINE ASSESSMENT AND EVALUATION

Presider: T. A. Williams, Salt Lake V.A. Hospital

The following papers are jointly authored by Giannetti, Johnson, Hanson, Klingler, Miller, and Williams of the University of Utah College of Medicine and Salt Lake V.A. Hospital. Only the author reading the paper is listed after each title.

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Clinician Acceptance of Computer-Generated Psychological Assessment Reports - J. H. Johnson

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ALL: Automated Learning Laboratory - B. J. Starr and S. A. Flanik, Howard University

Monte Carlo Simulations and the Chi-Square Test of Independence - D. R. Bradley and S. Cutcomb, Bates College

The Community Mental Health Center Management Game: Teaching Administrative Skills by Means of Computer Simulation - C. E. Hallenbeck, R. B. Gallaher, and J. Q. Warren, University of Kansas

## Evening Schedule

### MEETINGS OF SPECIAL INTEREST GROUPS

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Presider: Arthur G. Snapper, Western Michigan University

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Time-of-Day Clocks and SKED: Techniques and Applications - T. F. Elsmore, Walter Reed Army Institute of Research

Deep SKED - G. Inglis, University of Rochester

The Use of Variables of State Notation: Some Proposed Changes - A. G. Snapper, Western Michigan University

8:00 - 10:00 p.m. SESSION XI DECSIG (United States Room)

Presider: Doris Aaronson, New York University

The Digital Equipment Corporation Special Interest Group (DECSIG) will discuss matters of common interest dealing with hardware and software. In particular, new products of special interest to psychologists will be described.

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(Room 201)

This is a general meeting for users of non-DEC systems. The organization of the meeting is open and the formation of Special Interest Groups representing different systems will be facilitated.

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Exhibits and Displays	Third Level
President's Dining Room	Second Level
Registration Area	Third Level
Sesquicentennial Room	Third Level
United States Room	Third Level
Room 201	Second Level

## CONFERENCE OFFICERS, 1975-1976

President	Lee W. Gregg, Carnegie-Mellon University
President-Elect	Peter G. Polson, University of Colorado
Past President	Joe B. Sidowski, University of South Florida
Secretary-Treasurer	Richard B. Millward, Brown University
Program Chairman	N. John Castellan, Jr., Indiana University

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Daniel E. Bailey, University of Colorado (1973-1976)  
N. John Castellan, Jr., Indiana University (1973-1976)  
Donald A. Norman, University of California, San Diego (1974-1977)  
Peter G. Polson, University of Colorado (1973-1976)  
Frank Restle, Indiana University (1974-1977)  
Arthur Snapper, Western Michigan University (1975-1978)  
George Sperling, Bell Laboratories & New York University (1974-1977)  
Donald Tepas, St. Louis University (1975-1978)

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Steering Committee, 1976-1979	Russell Church, Brown University Geoffrey Loftus, University of Washington George Potts, Denver University

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Doris Aaronson, New York University  
William L. Bewley, Minnesota Educational Computing Consortium  
John King, Professional Data Services, Inc.  
John Klingler, University of Utah  
Richard E. Lehman, Franklin & Marshall College  
Geoffrey Loftus, University of Washington  
Arthur G. Snapper, Western Michigan University  
B. James Starr, Howard University

## LOCAL ARRANGEMENTS COMMITTEE

D. Gene Davenport, St. Louis University  
Donald Tepas, St. Louis University

## EXHIBITS AND DISPLAYS

(as of September 10, 1976)

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Box 2551, LeHigh Valley, Pa. 18100

"Solid state modules for analog signal recording. "

### DATA GENERAL

Southboro, Mass. 01772

"Digital computers for multiprogramming and on-line recording. "

### DIGITAL EQUIPMENT CORPORATION

146 Main Street, Maynard, Mass. 01754

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### NEWMAN COMPUTER EXCHANGE, INC.

1250 North Main, Ann Arbor, Michigan 48103

"Used mini computers and peripherals. "

### POLYTRONICS

Methodist Hill, Lebanon, N.H. 03766

"Universal response timers for time-sharing computers. "

### PROFESSIONAL DATA SERVICES, INC.

Chicago, Illinois

"Computer systems for behavioral, biomedical, and business use. "

### STATE SYSTEMS

P.O. Box 2215, Kalamazoo, Michigan 49001

"Interface for SKED systems. "

### WHITTAKER CORPORATION (Space Science Division)

335 Bear Hill Road, Waltham, Mass. 02154

"Eye view monitor and TV pupillometer system. "



# NATIONAL CONFERENCE on the use of on-line computers in psychology

**SIXTH  
ANNUAL  
MEETING**

NOVEMBER 10  
1976  
ST. LOUIS  
MISSOURI

*the day before the  
PSYCHONOMIC SOCIETY  
meeting*

ST. LOUIS UNIVERSITY  
Busch Memorial Center  
20 North Grant Boulevard  
St. Louis, Missouri



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*1:30 modeling*  
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Department of Psychology

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