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<td>Symposium on Recent Computer Developments</td>
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<td>9:00</td>
<td>Symposium on Strategies for the Psychological Diagnosis of Brain Damage</td>
<td>Starlight Roof</td>
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<td>10:00</td>
<td>Friday Programs</td>
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<td>11:00</td>
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GENERAL ANNOUNCEMENTS

Hotel Reservations
Write directly to the Chase-Park Plaza, 212 N. Kingshighway Blvd., for reservations. Special rates are available for MPA members. Psychology graduate students, who need not be members, may obtain dormitory rates, for three or four persons to a room.

Registration
Registration will be held in the Exhibit Hall area. The hours are: Thursday, 2-8 p.m.; Friday, 8 a.m. to 5 p.m.; Saturday, 8 a.m. to 1 p.m. If you have pre-registered, you may pick up your badge without delay. Non-members will be charged a $1.00 registration fee, for which they will receive a program and badge. Members of the APA may automatically become members of the Midwestern Psychological Association by paying $3.00 at the time of registration, in lieu of a registration fee. Others who wish to become members should obtain application blanks by writing the Secretary-Treasurer after the meeting. A copy of the program is mailed to all members and applicants. This program should be brought to the meeting; additional copies may be purchased at the Registration Desk for 25 cents.

CONVENTION FEATURES

Presidential Address
G. Robert Grice will give the Presidential Address on Friday at 4 p.m. in the Khorasan Room. A pay-for-your-own Social Hour will follow, in the Chase Club.

Annual Business Meeting
The annual business meeting will be held Friday at 3 p.m. in the Regency Room. The agenda will be posted by noon Friday at the Registration Desk.

Public Information
The Press Room will be located in the Lucas Place Room. This service will be directed by Ronald M. Wilson, VA Hospital, and Michael Amrine, APA Central Office. They will make abstracts available to the press and will attempt to arrange interviews with speakers.

Placement
The Placement Center will be located in the Exhibit Hall Annex. This service will be directed by Allan G. Barclay, St. Louis University, and Forrest Vance, APA Central Office. The Placement Center will be open Thursday from 3 p.m. to 8 p.m.; Friday from 9 a.m. to 5:30 p.m.; and Saturday from 9 a.m. to 2 p.m. Those seeking employment or having positions to fill should register at the meeting. Those who cannot attend should obtain placement forms prior to the meeting from Forrest Vance, American Psychological Association, 1333 16th Street, N.W., Washington, D.C., 20036.

Exhibits
Books, tests, and apparatus will be exhibited in the Exhibit Hall area.

Psi Chi
The Midwestern Region of Psi Chi will sponsor an invited address, a program of invited papers, and a coffee hour on Saturday morning.

Closed Meetings
Requests for arrangements for closed meetings of committees and other special groups should be addressed to the Chairman of the Local Arrangements Committee, Frederick J. Thurn, Adult Counseling Service, Washington University, St. Louis, Missouri, 63130.

OFFICERS OF THE ASSOCIATION, 1963–64

Council
G. ROBERT CROCE, University of Illinois, President
FREDERICK A. MOTE, University of Wisconsin, Secretary-Treasurer
EDWARD L. WALKER, University of Michigan
HAROLD W. HAKE, University of Illinois
E. JAMES ARCHER, University of Wisconsin

Program Committee
ALLAN RECHTSCHAFFEN, University of Chicago, Chairman
HARRY C. TRANDOS, University of Illinois
RODOLPH SCHULZ, State University of Iowa
FREDERICK A. MOTE, University of Wisconsin, ex officio

Local Arrangements Committee
FREDERICK J. THURM, Washington University, Chairman
HARRY J. CAPPENNY AND MALCOLM D. GYNTLER, Washington University, Registration
ALLAN G. BARCLAY, St. Louis University, Placement
RONALD M. WILCOX, VA Hospital, Public Relations
HANS SCHMIDT, Jr., Washington University, Audio-Visual and Meeting Rooms
JAMES M. VANDERPLAS, Washington University, Special Events
RICHARD H. WILLER, Washington University, Mail and Information
DANIEL V. CAPUTO, Washington University, Volunteers

CONVENTION AND OFFICERS, 1964–65

The 1965 Convention will be at the Palmer House Hotel, Chicago, April 29-May 1. Newly elected officers, whose terms begin at the end of the 1964 meeting are:
MELVIN H. MARK, University of Missouri, President
DAVID KIRSCHENFELD, Southern Illinois University, Council Member, 1964–1967
SYMPOSIUM  
THURSDAY, 8:00-10:00 P.M.  
Khorassan Room

RECENT COMPUTER DEVELOPMENTS OF INTEREST TO PSYCHOLOGISTS  
Robert E. Chandler, General Motors Corporation, Chairman

Computer simulation of a social interaction model, John Gullahorn and  
Jeanne Gullahorn, Michigan State University.

Dynamic computer models of complex psychological processes, Charles  
Newman and Leonard Uhr, University of Michigan.

Non-numerical real-time applications of computers to psychology, Wil-  
liam R. Uttal, University of Michigan.

Computer evaluation of multivariate classification techniques: a compara-  
tive study involving United Nations voting, Charles F. Wrigley, Michi-
gan State University.

SYMPOSIUM  
THURSDAY, 8:00-10:00 P.M.  
Starlight Room

STRATEGIES FOR THE PSYCHOLOGICAL DIAGNOSIS OF BRAIN DAMAGE  
K. Werner Schaie, University of Nebraska, Chairman

Assumptions underlying the construction and use of psychological tests of  
brain damage, Aubrey J. Yates, University of Western Australia (visiting  
at the University of Wisconsin).

Strategies for the lateralization of brain damage, Homer B. C. Reed, Jr.,  
Indiana University.

Assessment of visual-motor patterning in brain damaged children, Mary  
R. Haworth, University of Nebraska.

Comparative studies of the diagnostic contribution of some brief tests for  
cerebral damage, Otfrid Spreen and Arthur L. Benton, State University  
of Iowa.

SHORT TERM MEMORY I  
FRIDAY, 8:30-10:00 A.M.  
Khorassan B Room

Edwin Martin, University of Michigan, Chairman

8:30  Arthur W. Melton, University of Michigan. Effect of repetition on  
immediate memory.

8:45  Nola J. Troxell and Robert E. Morin, Kent State University. Keeping  
track of several variables: number of variables and stimulus recur-  
rence distributions.

9:00  Richard H. Lindley, Eastern Michigan University. Recall of trigrams  
and words in short-term memory.

9:15  William R. Blount, George L. Hom, and Seymore Simon, Northern  
Illinois University. Short-term memory in retardates as a function of  
associative strength, direction of recall, and retention interval.

9:30  Donald A. Schusky, University of Cincinnati. Encoding and decod-  
ing modes as determinants of chunking in short-term memory.

9:45  Kirk H. Smith, Indiana University. Grammatical intrusions in the  
free recall of redundant strings of letters.

10:00  William F. Battig, Northwestern University; Philip M. Merikle and  
Mary E. Schild, University of Virginia. Anagram free-recall and rec-  
ognition learning, and paired-associate transfer.

MEASUREMENT I  
FRIDAY, 8:30-10:00 A.M.  
Tiaro Room

Charles Hulin, University of Illinois, Chairman

8:30  Frank M. Goode, University of Michigan. Two methods for obtain-  
ing interval scales from ordered metric scales.

8:45  Frederick J. Boersma, James J. DeJonge, and Walter R. Stellwagen,  
Michigan State University. A Monte Carlo power comparison of the  
nonparametric L test and the parametric F test.

9:00  Auke Tallegem, University of Minnesota. The contribution of direc-  
tion of scoring to error in psychological interpretation.

9:15  William W. Rozseboom, Wesleyan University. Configural analysis and  
the variance structure of a composite test.

9:30  Robert E. Chandler, General Motors Corporation. Validity, relia-  
bility, baloney—and a little mustard.

9:45  Isolah Gutman, Nambury Raju, and Walter Jones, Science Research  
Associates. Validity and correlation as a function of predictor score  
points.

SOCIAL PSYCHOLOGY  
FRIDAY, 8:30-10:15 A.M.  
Chose Club Room

Thomas J. Banta, University of Denver, Chairman

8:30  Frederick J. Smith and Albert R. Marston, University of Wisconsin.  
The effect of inter- and intra-response class differences upon learn-  
ing via vicarious reinforcement.
9:15 Joseph A. Sheflin, Jr., and Mark W. Stephens, *Purdue University*. Incentive-functions of approval, disapproval, and need for approval.
10:00 Robert B. Bechtel and Howard Rosenfeld, *University of Kansas*. The influence of affiliation need (n) and status discrepancy on expectations of social reciprocation.

**FEAR AND ANXIETY**

**FRIDAY, 8:30–10:15 A.M.**

_Khorassan A Room_

Leonard E. Gottesman, *University of Michigan*, Chairman


**HUMAN OPERANT AND PROGRAMMED LEARNING**

**FRIDAY, 8:30–10:15 A.M.**

_Lido Room_

Alan Baron, *University of Wisconsin-Milwaukee*, Chairman

8:30 Carl Danson and Reed Lawson, *Ohio State University*. The effect of extinction on two concurrent verbal responses.
9:00 C. D. Spielberger, I. H. Bernstein, and R. G. Ratliff, *Vanderbilt University*. The information and incentive value of the reinforcing stimulus in verbal conditioning.
9:15 Albert R. Marston, *University of Wisconsin*. Instructional set in acquisition and extinction with vicarious reinforcement.
9:30 Jon B. Myers, *Humber, Mundie & McClary, Milwaukee*; and Donald C. King, *Purdue University*. Identification and effects of frame sequence characteristics related to learning and retention in programmed instruction.
9:45 John F. Feldhusen, *Purdue University*. Experimental evaluation of an adjunct program.

**DEVELOPMENTAL PSYCHOLOGY I**

**FRIDAY, 8:30–10:15 A.M.**

_Starlight Roof_

Rosslyn Gaines, *University of California, Los Angeles*, Chairman

8:30 Gloria J. Fischer, *University of South Florida*. The influence of ECS on the retention of imprinting.
9:00 Ned J. Kline, *The Jackson Laboratory*. The interactive effects of acquired fear, albedo, novelty-complexity, and infantile stress on later emotionality.
9:15 Gilbert W. Meier and Ralph J. Berger, Laboratory of Perinatal Physiology, NIH, San Juan, Puerto Rico. Other data on the effects of social isolation during rearing upon adult reproductive behavior in the rhesus monkey (Macaca mulatta).

9:30 Eileen Mavis Hetherington, University of Wisconsin. A developmental study of the effects of parental dominance on sex role preferences, identification and imitation in children.

9:45 Charles F. Condon, Terry P. Denny, and John F. Feldhusen, Purdue University. Anxiety, creativity, and achievement in junior high school children.

10:00 K. Warner Schaie, University of Nebraska; and Charles R. Strother, University of Washington. A cross-sequential study of age changes in cognitive behavior.

**VISUAL PERCEPTION**

**FRIDAY, 8:30–10:30 A.M.**

**Zodiac Room**

George S. Harker, Army Medical Research Laboratory, Chairman

8:30 Norman L. Corah, Washington University. Perception of change in spatial orientation.

8:45 Daniel C. O'Connell, Harvard University; Thomas J. McHale, University of Illinois; and Daniel J. Weintraub, University of Michigan. Apparent verticality: fundamental variables of sensory-tonic theory reinvestigated.

9:00 Ted J. Tetzlaff and Richard F. Haines, Michigan State University. The effect of supported body tilt in the medial plane upon visual perception of the vertical.

9:15 Bruce E. Dunn, University of Minnesota; Gary C. Gray, West Liberty State College; and Douglas Thompson, Marshall University. Picture-plane height and depth perception.

9:30 James H. Brown, Army Medical Research Laboratory. A perceptual scale of bi-directional similarity.

9:45 Richard Maier, Robert Riedel, Roy Daly, and Paul von Ebers, Loyola University. The phenomenal displacement of lights in apparent movement as a function of several background stimuli.

10:00 John F. Cross and Marilyn K. Rigby, St. Louis University. Illusory motion perception as a function of stimulus size disparity.

10:15 Horace A. Page, Lloyd F. Eifner, and Nancy Jamison, Kent State University. Autokinetic effect as a function of intermittency of the light source.

**COMPARATIVE PSYCHOLOGY**

**FRIDAY, 8:30–10:00 A.M.**

**Regency Room**

Patricia M. Meyer, Ohio State University, Chairman

8:30 James L. Calkins, Charles L. Darby, and Roy Mills, Purdue University. Techniques for whole-body staining of the planarian, Dugesia dorotocephala.

8:45 James H. Reymiere and Stanley C. Rothe, Michigan State University. Acquisition and extinction in the earthworm, Lumbricus terrestris.

9:00 V. J. Poldora and Wayne J. Thompson, Regional Primate Center, University of Wisconsin. Orienting behavior and the S-R spatial discontiguity effect in monkeys.

9:15 Heinz A. Gaylord, Arnold A. McDowell, and W. Lynn Brown, University of Texas. Two-trial learning set formations by naive rhesus monkeys.

9:30 W. Lynn Brown and Arnold A. McDowell, University of Texas. Discrimination learning of mirrored cues by normal and previously irradiated male rhesus monkeys.


**VERBAL LEARNING I**

**FRIDAY, 10:30 A.M.–12:15 P.M.**

**Kharassan C Room**

Geoffrey Keppel, University of California-Berkeley, Chairman

10:30 Richard E. Wiehe, Indiana University. One trial learning and parallel associations.

10:45 Samuel Kachigan and Marilyn E. Miller, University of Wisconsin-Milwaukee. Effects of orienting task complexity and number of trials upon incidental learning.

11:00 Alice Burroughs and Marilyn E. Miller, University of Wisconsin-Milwaukee. Effect of constant or varied pairing of stimulus materials upon incidental learning.

11:15 Susan Solomon and Eli Soltz, Center for the Study of Cognitive Processes, Wayne State University. Stimulus differentiation with verbal material.
11:30 Phillip M. Merkle, University of Virginia; and William F. Battig, Northwestern University. Effect of stimulus and response meaningfulness on transfer under A-Br, A-C, C-B, and C-D paradigms.
11:45 Sigrid Meyer and James C. Naylor, Ohio State University. Variables affecting retroactive inhibition.
12:00 Guy J. Johnson and Ronald K. Penney, University of Texas. The interaction between intra-pair associative strength and mixed and unmixed lists in paired associate learning.

SMALL GROUP PROCESSES
FRIDAY, 10:15 A.M.-12:15 P.M.
Tiera Room
Lawrence S. Wrightsman, George Peabody College for Teachers, Chairman
10:15 Morris F. Friedell, University of Chicago. The experimental game as an instrument for the study of social behavior.
10:30 J. Richard Heckman, Lawrence E. Jones, and Joseph E. McGroth, University of Illinois. A set of dimensions for the description of verbal group products.
10:45 James W. Julian, State University of New York at Buffalo; and Doyle Bishop, University of Illinois. An experimental test of the effects of group competition on the interpersonal relations and adjustment of group members.
11:00 Philip K. Olson and James H. Davis, Miami University. Deliberate tasks and the Lorge-Solomon pooling of ability models.
11:30 Edmund F. O'Reilly, Jr., Stark County Guidance Center; and V. Edwin Bixenstine, Kent State University. The effects of two kinds of payoff, money and electric shock, on decision making in a two-person, non-zero-sum game.
11:45 Daryl J. Bem, University of Michigan; Michael A. Walloch, Duke University; and Nathan Kogan, Educational Testing Service. Group decision-making under risk of aversive consequences.
12:00 Donald D. Penner and Karl E. Weick, Purdue University. The effects of role differentiation on group vulnerability.

MEASUREMENT II
FRIDAY, 10:30 A.M.-12:00 M.
Chase Club Room
William W. Rozeboom, Wesleyan University, Chairman
10:30 Patricia Carolen and A. Barley, St. Louis University. A comparative study of the Wechsler Intelligence Scale for Children and the Stanford-Binet Intelligence Scale, Form L-M.
10:45 Frederick G. Brown, Iowa State University. A decision-making analysis of college admissions.
11:00 Lyle F. Schoenfeldt and W. A. Owens, Jr., Purdue University. Life history as a moderator in the prediction of intellectual change.
11:15 Thad Hershberger and Warren T. Normen, University of Michigan. The effects on validities of matching methods components of personality measures.
11:30 James D. Lindan, Purdue University; and Richard R. Schmitt, VA Hospital, Hines, Illinois. The development and evaluation of a two factor test of personality.

PROBABILITY LEARNING
FRIDAY, 10:30 A.M.-11:45 A.M.
Khorassan A Room
Morton Weir, University of Illinois, Chairman
10:30 E. J. Capoldi and Hugh Poyner, University of Texas; and James N. Bowen, Arlington State College. Effect of $E_1/E_2$ and number of training trials on resistance to extinction.
11:00 Richard G. Swensson, Purdue University. Incentive shifts in a three-choice decision situation.
11:30 Edward L. Eddowes, University of Missouri, St. Louis Extension Division, and McDonnell Aircraft Corporation. The effects of instructions on the prediction of alternative events in patterned and random sequences.
VISION AND AUDITION
FRIDAY, 10:30 A.M.-12:00 M.
Lido Room

Daniel Weintrab, University of Michigan, Chairman

10:30 Adolph Streng, Jr., Augustana College; and Norman Ginsburg, Roosevelt University. Time-decay of local adaptation to intermittent light.

10:45 Arthur Eugene Jones, Army Medical Research Laboratory. Response patterns of single LGN cells to flashes of light to the dark adapted owl monkey eye.

11:00 Sherman L. Guth, Indiana University. The effect of wavelength on visual perceptual latency.

11:15 Martha C. Poison, Indiana University; Arthur E. Jones, Army Medical Research Laboratory; and Russell L. De Valois, Indiana University. Luminosity functions of the sotzy mangabey determined from the dark adapted electroretinogram.

11:30 Richard F. Heaines, Michigan State University. Intensity gradients produced within the eye by various shaped glare sources.

11:45 Lloyd F. Effner and Anthony Marsella, Kent State University. Continuity effects with alternating noise and tone bursts.

DEVELOPMENTAL PSYCHOLOGY II
FRIDAY, 10:30 A.M.-12:15 P.M.
Starlight Roof

Leigh M. Triandis, University of Illinois, Chairman

10:30 Harry P. Shelley, University of Nebraska. The distribution of participation in small discussion groups.

10:45 Rosslyn Gaines, University of California, Los Angeles. Color-form preference and color-form discriminative ability of deaf adolescents.

11:00 James F. Clark and June Chance, University of Missouri. Sex-related differences in social motivation.


11:30 Shirley Tuska and Benjamin Wright, University of Chicago. Interpersonal origins of men's plans to teach.

11:45 Richard S. Bogartz and David R. Pederson, State University of Iowa. Variables influencing errors in prediction of an alternation sequence by preschool children.

12:00 Johnine M. Simpson and Phyllis W. Berman, University of Wisconsin. The effects of pretraining with successive single stimuli on the learning of relative and absolute discriminations by preschool children.

HUMAN BRAIN DAMAGE
FRIDAY, 10:45 A.M.-12:00 M.
Zodiac Room

John A. Stern, Washington University, Chairman

10:45 Roy M. Hamlin, VA Hospital, Danville, Illinois; and Elaine F. Kinder, Rockland State Hospital, Orangeburg, New York. Test scores of brain operated and control schizophrenic patients over fifteen years.

11:00 Manfred J. Meier, University of Minnesota. Differential deficits in complex visual discrimination and bilateral transfer of reminiscence after unilateral temporal lobectomy.

11:15 Poul Seth, University of Florida Medical School. Specific and nonspecific effects of brain lesions in man.

11:30 Homer B. C. Reed, Jr., Indiana University Medical Center. Individual variability on the Wechsler-Bellevue Test of brain-damaged and non-brain-damaged subjects.

11:45 Keihleen B. Fitzhugh and Loren C. Fitzhugh, New Castle State Hospital, Indiana. Sensory and motor performances of subjects with longstanding lateralized and diffuse cerebral dysfunction.

ANIMAL LEARNING
FRIDAY, 10:15 A.M.-12:00 M.
Regency Room

John Theios, University of Texas, Chairman


10:30 Norman E. Speer, Rutgers University; and Winfred F. Hill, Northwestern University. Choice between magnitude and percentage of reinforcement.

10:45 Judson S. Brown, University of Oregon Medical School; and Kenneth B. Melvin, University of Alabama. Neutralization of an aversive light stimulus as a function of number of paired presentations with food.

11:00 James R. Ison, University of Rochester; and Patrick E. Cook, University of Texas. Extinction behavior determined by number and magnitude of reinforcements.

11:30 Harold W. Coppock and J. Grayson Osborne, Arizona State University. Distribution of practice with respect to behavior: learning how to learn may be learning how to sit still.

11:45 Glen D. Jensen, De Paul University. Use of normative data and a hypothetical-deductive technique to obviate redundant control groups while increasing power.

VERBAL LEARNING II

FRIDAY, 1:00–2:30 P.M.
Khorsassian C Room

Lowell Schipper, Pennsylvania State University, Chairman

1:00 Louis G. Lippman and M. Ray Denny, Michigan State University. Serial position effect as a function of intertrial interval.

1:15 David T. Hakes and Robert K. Young, University of Texas. A reexamination of the Ebbinghaus derived-list paradigm.

1:30 Robert K. Young and David T. Hakes, University of Texas. Effects of list length in the Ebbinghaus derived-list paradigm.

1:45 Geoffrey Keppel, University of California, Berkeley. Retroactive inhibition of serial lists as a function of the presence or absence of positional cues.

2:00 Slater E. Newman, University of North Carolina at Raleigh. Serial position as a cue in learning: the effect of test-rate.

2:15 Calvin F. Nodine, Miami University. Stimulus durations and total learning time in paired-associates learning.

PHYSIOLOGICAL PSYCHOLOGY I

FRIDAY, 1:00–3:00 P.M.
Tiera Room

George Crampton, Army Medical Research Laboratory, Chairman

1:00 E. Christopherson and William Wageman, Southern Illinois University. Self-licking and the maternal behavior of laboratory rats.

1:15 Richard Mullins, Jr., and Seymour Levine, Stanford University. Sexual behavior in female rats injected with testosterone 120 hours after birth.

1:30 Arnold A. Gerall, Tulane University. Effect of early postnatal injections of androgen and estrogen on the rat's estrous behavior.

1:45 Arthur E. Harriman, Ripon College; and Morley R. Karo, North Carolina State of the University of North Carolina at Raleigh. Taste preferences for sodium chloride over lithium chloride by rats.

2:00 Raymond P. Kesner, Lawrence I. O'Kelly and Garth J. Thomas, University of Illinois. The effects of cortical spreading depression upon audiogenic seizures in rats.

2:15 Donald Henderson, W. Lynn Brown, and James Wicker, University of Texas. Some effects of whole-head X-radiation on operant avoidance and appetitional conditioning.

2:30 Dwight Leonard and Albert Zavala, Kansas State University. Effects of electroconvulsive shock on retrograde amnesia with reference to competing response, adaptation syndrome, and avoidance explanations.


INDUSTRIAL PSYCHOLOGY I

FRIDAY, 1:00–2:30 P.M.
Chase Club Room

Robert Perloff, Purdue University, Chairman

1:00 Alan R. Bass, Wayne State University. Differential effectiveness of different rating procedures.

1:15 Stephen P. Klein and William A. Owens, Jr., Purdue University. Artificial responses to a scored life history.

1:30 Donald C. King, Purdue University; and Donald L. Wass, Enlisted Evaluation Center, Ft. Harrison, Indiana. The relationship between life satisfaction and attitudes toward union and management.

1:45 Paul F. Wernimont and M. D. Dunnette, University of Minnesota. "Intrinsic" and "extrinsic" factors in job satisfaction.

2:00 Charles L. Holin, University of Illinois. Age and tenure trends in job satisfaction: linearity vs. curvilinearity.


SCHIZOPHRENIA

FRIDAY, 1:00–2:30 P.M.
Khorsassian A Room

Eugene Southwell, University of Chicago, Chairman

1:00 Norris D. Veste, University of Minnesota. The relative effects of phenothiazines and phenobarbital on verbal operant conditioning.

1:15 Paul B. Koons, Jr., Ohio University; and Richard Barber, Eastern State Hospital, Williamsburg, Virginia. An evaluation of the organicity hypothesis in process schizophrenia.
1:30 Lloyd D. Wyatt, VA Hospital, Marion, Indiana; and James D. Linden, Purdue University. The significance of emotional content in the logical reasoning ability of schizophrenics.

1:45 Kenneth D. Sandvold, VA Hospital, Danville, Illinois. The effect of effort and task orientation on the motivator orientation and verbal responsivity of chronic schizophrenics and normals.

2:00 H. Carl Hoywood, George Peabody College; and Roy M. Hamlin and Angela T. Foisom, VA Hospital, Danville, Illinois. Effect of amplified information on abstract interpretation of proverbs by schizophrenic subjects.


PSYCHOPHYSICS

FRIDAY, 1:00–3:00 P.M.
Lido Room

Lloyd F. Elsner, Kent State University, Chairman

1:00 Dean H. Owen and Donald R. Brown, Purdue University. Physical determinants of perceptual complexity for the visual and tactual modalities.


1:30 Leonard Zusne and Kenneth M. Michels, Purdue University. Moments of area and of the perimeter of visual form as predictors of discrimination performance.

1:45 Raymond H. Hohle, State University of Iowa. Detection of a visual signal with low background noise.

2:00 Richard H. Schulte and William E. Kappov, University of Illinois. Bias in differential loudness judgments as a function of stimulus conditions on the previous trial.

2:15 James Tweedy and David Leberge, University of Minnesota. Presentation probability and choice time.

2:30 Amos Tversky, University of Michigan. Structural determinants of choice: effects of similarity on relative judgments of area.

2:45 Russell A. Bell, Merrill Noble, and Walter Daves, Kansas State University. A psychophysical study of echolocation in the rat.

ATTITUDE CHANGE

FRIDAY, 1:00–3:00 P.M.
Starlight Roof

James W. Julian, Wayne State University, Chairman

1:00 John E. Teachan and Sanford Golin, University of Wisconsin-Milwaukee. Reactions to the president's assassination as a function of sex, ideology, perceived parental attitudes and symbolic significance.

1:15 Lawrence S. Wrightsman and Frank C. Noble, George Peabody College for Teachers. Reactions to the president's assassination and changes in philosophies of human nature.

1:30 Thomas J. Bents, University of Denver. The Kennedy assassination: early thoughts and emotions.

1:45 Arnold Bond Woodruff, William H. James and Warren Werner, Northern Illinois University. The effect of internal and external control upon changes in smoking behavior following the government report on smoking.

2:00 Jon David Jäcker, Kent State University. Attitudes toward political defection.

2:15 David Foulkes and Allan Rechtschaffen, University of Chicago. Presleep determinants of dream content: the effects of two films.

2:30 Norman Miller, Yale University. Issue involvement and opinion change.

2:45 Douglas P. Crowne, Northwestern University; and Lane K. Conn, Ohio State University. The hypnotic enhancement of self-esteem and persuasibility.

CLASSICAL CONDITIONING

FRIDAY, 1:00–3:00 P.M.
Zodiac Room

James Ison, University of Rochester, Chairman

1:00 Stephanie B. Stolz, Beloit College. Conditioning and pseudo-conditioning of the vasomotor response in human subjects.


1:30 William F. Prokasy, Pennsylvania State University; and James D. Papsdorf, Indiana University. Response shaping in classical conditioning: a contrast between the human and the albino rabbit.
MOTIVE-INCENTIVE CONDITIONS I
FRIDAY, 1:00-2:30 P.M.
Regency Room

Gloria J. Fischer, University of South Florida, Chairman

1:00 Charles D. Corman and Raymond C. Miles, Ohio State University. Topography of an operant as a function of drive.

1:15 Raymond C. Miles, Ohio State University. Modes of "arousal" and discrimination efficiency.

1:30 H. Wayne Ludvigson, Carnegie Institute of Technology; and James H. McHose, Southern Illinois University. The role of reward magnitude and incomplete reduction of reward magnitude in the frustration effect.

1:45 Ernest D. Kemble and Keith N. Clayton, Vanderbilt University. Prefeeding and the apparent frustration effect.

2:00 Keith N. Clayton and Sally T. Koplin, Vanderbilt University. T-maze learning as a joint function of probability and magnitude of reward.


OPEN MEETING
FRIDAY, 1:00-3:00 P.M.
Coach Room

Vocational Experts of the Social Security Administration of Hearing and Appeals

BUSINESS MEETING
FRIDAY, 3:00 P.M.
Regency Room

PRESIDENTIAL ADDRESS
FRIDAY, 4:00 P.M.
Khorassan Room

Donald W. Fiske, University of Chicago, Chairman

DO RESPONSES EVOKE RESPONSES?
G. Robert Grice, University of Illinois

SOCIAL HOUR
FRIDAY, 5:00 P.M.
Chase Club

SYMPOSIUM
FRIDAY, 8:00-10:00 P.M.
Khorassan Room

THE ACTUARIAL APPROACH TO PERSONALITY ASSESSMENT
Jacob O. Sines, University of Missouri, Chairman

Continuing misconceptions regarding actuarial prediction. William Seemon, University of Cincinnati.

Automated techniques for personality assessment. Wendell M. Swenson, Mayo Clinic.

Actuarially derived information and the psychological report. Harold Gibeberstäd, VA Hospital, Minneapolis.

Implications for understanding the judgment process. Benjamin Kleinmuntz, Carnegie Institute of Technology.

Discussants: Jerome E. Doppelt, The Psychological Corporation; Bernard C. Glueck, Institute of Living.
SYMPOSIUM  
FRIDAY, 8:00–10:00 P.M.
Starlight Room

'AROUSAL' RESEARCH IN ANIMALS AND HUMANS
Edward L. Walker, University of Michigan, Chairman
Arousal in rats as a function of some biological variables. Donald Dewsbury, University of Michigan.
Variation in speed and basal resistance level in a straight alley. Vincent DiLello, Indiana University.
Skin resistance in the rat in the operant situation. Jon Williams, University of Michigan.
Memory storage as a function of arousal and time with interference and second training trials. Robert D. Torte, University of Michigan.
Arousal, meaning and verbal satiation. Nathaniel J. Ehrlich, University of Michigan.
Arousal as a measure of word relatedness. Howard Gadlin, University of Michigan.

CLINICAL PSYCHOLOGY  
SATURDAY, 8:30–10:00 A.M.
Khorassan C Room

Albert Marston, University of Wisconsin, Chairman
8:30 E. Robert Sinnett, Kansas State University; and Warren Stimpert and Elmer Straight, VA Hospital, Topeka, Kansas. A five-year followup study of psychiatric patients.
8:45 Peter M. Lewinsohn, Southern Illinois University; and Robert C. Nichols, National Merit Scholarship Corporation. Factors related to four different measures of improvement in mental hospital patients.
9:00 Leonard E. Gottesman, Wilma Donohue, and Dorothy H. Coons, Institute for Human Adjustment, University of Michigan. The effects of custodial vs. normalized milieu treatment on the self-concepts of geriatric mental patients.

9:30 J. Weldon Worth and Denis O'Donovan, University of Missouri. Over-emphasis in interpersonal movement and improvement in group therapy.
9:45 Joan E. Douglas, Fairhill Psychiatric Hospital; and V. Edwin Bixen- stine, Kent State University. The influence of psychopathology and communication on cooperative behavior in a six-person game.

ANIMAL OPERANT LEARNING  
SATURDAY, 8:30–10:00 A.M.
Tiara Room

Keith Clayton, Vanderbilt University, Chairman
8:30 Gene P. Sackett, Primate Laboratory, University of Wisconsin. Bar pressing for light change during rearing: effects of age, sensory deprivation level, and visual stimulus complexity.
8:45 Penelope B. Odom and Milton A. Trapold, University of Minnesota. Transfer of a discrimination between two manipulandum-defined responses.
9:00 Thomas D'Andrea, University of Minnesota. Extinction after training on multiple and chained reinforcement schedules: a comparison of primary and conditioned reinforcement.
9:30 Samuel H. Revusky and Roger N. Johnson, VA Hospital, Northampton, Massachusetts. Action decrement: its effects on an amount-of-reinforcement discrimination.
9:45 Cynthia Scheuer, Southern Illinois University. Lagging behavior as a function of the reinforcement schedule on another manipulandum.

INFORMATION PROCESSING  
SATURDAY, 8:30–10:00 A.M.
Chase Club Room

Michael Posner, University of Wisconsin, Chairman
8:45 Marvin L. Kumler and Robert E. Morin, Kent State University. Choice reaction time for numerals: effects of nature of response and stimulus probabilities.
9:00 Irma R. Gerjuoy, Johnstone Training and Research Center, and Herbert Gerjuoy, Educational Testing Service, Binary-choice sequences of retardates, normal children, and college students under random- and pattern-instructions.


9:45 Andrew Konick, Jr., and Robert E. Morin, Kent State University. Selective and choice reaction time: differential sensitivity to contextual effects.

MEDIATIONAL PROCESSES

SATURDAY, 8:30–10:30 A.M.

Khorassan A Room

Don Dulany, University of Illinois, Chairman

8:30 Paul M. Kjeldergaard, Harvard University. Interlist transfer of related word pairs as a function of first list learning.

8:45 Donald J. Foss, James J. Jenkins, and Penelope B. Odon, University of Minnesota. Associative mediation in paired-associate learning with multiple controls.

9:00 Lynn K. Brown and James J. Jenkins, University of Minnesota. An interspersed test item method applied to mediated response transfer.

9:15 Charles Clifton, Jr., and James J. Jenkins, University of Minnesota. Two methods for investigating mediated generalization in a group verbal learning situation.


9:45 David S. Palermo, Pennsylvania State University; and James J. Jenkins, University of Minnesota. Paired-associate learning as a function of the strength of links in the associative chain.

10:00 George B. Framer, Institute of Child Development, University of Minnesota. Mediated associations in the paired-associate learning of children.


SPECIAL ATTITUDES AND VALUES

SATURDAY, 8:30–10:00 A.M.

Starlight Room

David Foulkes, University of Chicago, Chairman

8:30 Donald G. Voigt and Denis O'Donovan, University of Missouri. Readability of three forms of the "Ways to Live".

8:45 Homer H. Johnson and Ivar D. Steiner, University of Illinois. Category width and responses to interpersonal disagreements.

9:00 Eugene C. Bryant, Isaac Gardner, Jr., and Morton Goldman, University of Missouri at Kansas City. Responses on racial attitudes as affected by interviewers of different ethnic groups.

9:15 Lynn R. Anderson and Martin Fishbein, University of Illinois. Prediction of attitude from the number, strength, and evaluative aspect of beliefs about the attitude object: a comparison of summation and congruity theories.

9:30 Stanley A. Levi and Martin Fishbein, University of Illinois. Some determinants of political attitudes.

9:45 Ronald Robbins and Denis O'Donovan, University of Missouri. The relationships of intelligence and social class to the use of leisure time by high school students.

PHYSIOLOGICAL PSYCHOLOGY II

SATURDAY, 8:30–10:15 A.M.

Zodiac Room

Richard E. Keesey, University of Wisconsin, Chairman

8:30 Chester W. Darrow and Ronald G. Hicks, Institute for Juvenile Research, Chicago. Interarea EEG phase relationships to sensory and ideational stimuli.
8:45 Marvin E. Lickey and Stephen S. Fox, University of Michigan. Slow potential (D.C.) correlates of sensory interaction and conditioning.

9:00 Edward S. Halas, Jennifer S. Buchwald, and Earl Eldred, UCLA Medical Center. Brain sites influenced by proprioceptive discharge from muscle spindles.

9:15 George H. Crompton and James H. Brown, Army Medical Research Laboratory. Nystagmus habituation does not transfer between orthogonal planes of rotation.

9:30 Calvin K. Adams, Army Medical Research Laboratory; and Harry Nelson, Kansas State University. The two-point threshold as a function of position in the dermatome.


10:00 Jacques St-Laurent and James Olds, University of Michigan. Behavior elicited by stimulation in approach and aversive structures of the rat's brain.

INDUSTRIAL PSYCHOLOGY II

SATURDAY, 8:30–10:00 A.M.
Regency Room

Alan R. Bass, Wayne State University, Chairman

8:30 Ernest J. McCormick, Purdue University; and Joseph W. Cunningham, U. S. Army. Worker-oriented job variables: their factor structure and use in determining job requirements.

8:45 Dennis J. McCormick and A. C. MackKinney, Iowa State University. A validation of three methods of job evaluation via the multitrait-multimethod matrix.

9:00 Samuel B. Marks and Robert G. Neel, System Development Corporation, New York University. Personality characteristics of the supervisor as they affect performance ratings.

9:15 Bruce A. Springborn, General Motors Institute. The prediction of poor performers.

9:30 Eugene C. Edel and Joseph Tiffin, Purdue University. "Need for success" as a predictor of "superior" managerial performance.


PSI CHI
SATURDAY, 8:30 A.M.–1:30 P.M.
Stockholm Room

PAPER SESSION I

Vytautas J. Bielioukas, Xavier University, Chairman

8:30 Warren Glenn Barr, Baldwin–Wallace College, Racial prejudice in grade school children.

8:45 Jack A. Weidner, University of Wisconsin–Milwaukee, Continuous vs. partial pairing of a neutral stimulus and primary reinforcer.

9:00 Sandra E. Clark, Ohio Wesleyan University, Empirical gradients of generalization during learning and forgetting of a recognition task.


9:30 Richard S. Wampler, Indiana University, Summation of water aversion and hunger drives in two strains of rats selectively bred for emotionality.

9:45 Wayne C. Evens, Indiana University, A paired associate model of observational learning.

10:00 Stanley S. Schonbuch, Michigan State University, Body image distortion in underweight and overweight people.

COFFEE HOUR, 10:15–10:45

All Psi Chi members and chapter advisors are urged to attend.

PSI CHI INVITED ADDRESS, 11:00
Howard B. Lyman, University of Cincinnati, Chairman
John C. Flanagan, American Institute For Research, Introducer

WHEN PROPHECY PALES: DISSONANCE THEORY OR DISSONANT RESEARCH
Karl E. Weick, Purdue University
(The American Institute For Research Creative Talent Winner)

PAPER SESSION II

Vytautas J. Bielioukas, Xavier University, Chairman

12:00 William E. Kirk, Ohio University, The effect of shock on duration of an immobility response of frogs (Rana pipiens).


12:45 Richard F. Donzey, Baldwin-Wallace College. An effect of subliminal stimuli on verbal behavior.
1:00 William Henry Groeschel, Baldwin-Wallace College. Relationship between anxiety and speed of reaction.
1:15 Kenneth E. Marks, Baldwin-Wallace College. The effects of anxiety on ESP.

PERSONALITY  SATURDAY, 10:15 A.M.—12:15 P.M.  Khorassan C Room

K. Edward Renner, University of Pennsylvania, Chairman

10:15 Leigh Minturn Triandis, University of Illinois. The dimensions of aggression: a descriptive scaling study of the characteristics of aggressive pictures.
10:30 Clifford H. Swensen and Frank Gliner, Purdue University; and Sheldon Gelbard, University of Tennessee. Factor analysis of statements about love relationships.
10:45 Benjamin Wright and Shirley Tuske, University of Chicago. The nature and origin of feelings of femininity among women.
11:00 Albert Gilgen, Michigan State University; and Donald Diehm, Kent State University. A comparison of leveling and sharpening tendencies on a square-size estimation task and a word-ruining task.
11:45 Cary M. Lichtman and James W. Julian, State University of New York at Buffalo. Internal versus external control of reinforcement as a determinant of preferred strategy on a behavioral task.
12:00 Ralph Epstein, Wayne State University. Authoritarian aggression and the target's social status.

STIMULUS GENERALIZATION  SATURDAY, 10:15—11:45 A.M.  Tiara Room

Reed Lawson, Ohio State University, Chairman

10:15 David Starks and Arnold Bond Woodruff, Northern Illinois University. Gradient of stimulus generalization under differing percentages of reinforcement and levels of school grade.
10:30 Laurence J. Stettner and Ronald Koteskey, Wayne State University. A study of generalization by the method of concurrent training.
11:00 Salvatore C. Caronite and David R. Thomas, Kent State University. The generalization of a positive conditioned reinforcer as measured by the "new learning" procedure.
11:15 Elaine G. Barker and David R. Thomas, Kent State University. The effects of extinction and "central tendency" on stimulus generalization.
11:30 David R. Thomas and Salvatore C. Caronite, Kent State University. The effects of discrimination training on the generalization of conditioned reinforcement.

SHORT TERM MEMORY II  SATURDAY, 10:15 A.M.—12:15 P.M.  Chase Club Room

James E. Voss, University of Pittsburgh, Chairman

10:15 Delos D. Wicksen and Roy P. Wittinger, Ohio State University. Proactive inhibition in short-term memory as a function of grammatical class.
10:30 James C. Noah and Seymore Simon, Northern Illinois University. Short-term retention as a function of item interference and associative strength.
11:00 Nicholas L. Rohman and John C. Jahnke, Miami University. Effects of recall condition and presentation rate on short-term memory.
11:15 Donald Reynolds and James H. Reysner, Michigan State University. The effects of meaningfulness and retention interval on proactive inhibition in short-term memory.
11:30 Michael I. Posner and Ellen Rossman, University of Wisconsin. The effect of size of interpolated information reducing transforms upon immediate recall.
12:00 Paul W. Fox and Edward A. Bile∼due, Tulane University. Stimulation and prediction of verbal recall and misrecall.
CONCEPT FORMATION AND PROBLEM SOLVING
SATURDAY, 10:45 A.M.-12:00 M.
Khorassan A Room

Lyle E. Bourne, University of Colorado, Chairman

11:00 J. Peter Denny, University of Western Ontario. Concept formation strategies used for positive and negative instances.
11:15 Kenneth Jacobus and Neal F. Johnson, Ohio State University. The experimental formation of a "set" to adopt a "set" in problem solving.
11:30 Howard B. Ranken, Purdue University, and Walter J. Dowling, Harvard University. Language and thinking: the interaction of naming with relevance and concreteness.
11:45 David E. Wiley and Donald M. Miller, University of Wisconsin. Some relationships between dimensionized visual stimuli and information utilization in a series of concept identification tasks.

AVOIDANCE CONDITIONING
SATURDAY, 10:00 A.M.-12:00 M.
Lido Room

James McHose, Southern Illinois University, Chairman

10:00 Lucy E. Jones and Seymour Levine, Stanford University. ACTH and passive avoidance learning.

VERBAL LEARNING III
SATURDAY, 10:15 A.M.-12:00 M.
Starlight Roof

John Johnke, Miami University, Chairman

10:15 Neal F. Johnson, Ohio State University. The role of association in learning sentences.
10:30 Penelope Peterson and Neal F. Johnson, Ohio State University. On the relationship between sentence structure and the latency in generating the sentence.
10:45 Frederick Fiduccia and Neal F. Johnson, Ohio State University. The integration of unstructured subunits of complex structured responses.
11:00 Clyde E. Noble, Montana State University, and Blaine L. Baker, Purdue University. Effects of time factors in paired-associate verbal learning.
11:30 William E. Gumenik and Terry Spencer, University of Toledo. Verbal satiation and changes in meaning of synonyms: satiation or set?
11:45 Sam C. Brown, Kansas State University, and Richard Pearlstein, University of Virginia. Effect of successive addition of stimulus elements in paired-associate learning.

ABLATION
SATURDAY, 10:30 A.M.-12:15 P.M.
Zodiac Room

Manfred J. Meier, University of Minnesota, Chairman

10:30 D. F. Peeler and O. J. Andy, Laboratory of Experimental Behavior, University of Mississippi Medical Center. Avoidance learning in cats following hippocampal resection.
10:45 Patricia M. Meyer, David A. Yutzey, and Donald R. Meyer, Ohio State University. Emotionality changes following septal and neocortical ablations in rats.

11:00 Leonard E. Jarrod and Thomas C. Lewis, Washington and Lee University. Effects of hippocampal ablation and intertrial interval on acquisition of a complex maze.


11:30 Lewis A. Bettinger, Ohio State University; James A. Horel, University of Florida; George J. Royce and Donald R. Meyer, Ohio State University. Course of recovery of a brightness habit after anterior and posterior cortical lesions in the rat.

11:45 David L. Stewart and Donald P. Scherlock, Roosevelt University. Sound-guided place learning by kittens in an open field after removal of auditory cortex.

12:00 J. Jay Braun, Patricia M. Meyer, and Donald R. Meyer, Ohio State University. Acquisition of a brightness habit in normal and visually decorticated rats following treatment with dl-amphetamine.

**ENGINEERING PSYCHOLOGY**

**SATURDAY, 10:15 A.M.-12:15 P.M.**

Regency Room

John D. Gould, IBM, Yorktown Heights, New York, Chairman


10:30 J. Roger Ware, Boyd Kowal, and Robert A. Baker, Army Armor Human Research Unit. The role of experimenter attitude and contingent reinforcement in a vigilance task.

10:45 Michel Loeb, Army Medical Research Laboratory; and John R. Binford, University of Louisville. Performance on an auditory vigilance task as a function of preliminary feedback and confidence level.

11:00 James D. Wolf, Honeywell Military Products Group; and Ronald H. Peters, Iowa State University. Effects of intermittency and modality of sensory feedback on two-dimensional compensatory tracking performance.

**SYMPOSIUM**

**SATURDAY, 1:00-3:00 P.M.**

Starlight Roof

THE INTERACTION OF PROCESS AND ANALOGUE RESEARCH IN PSYCHOTHERAPY

Frederick Kanfer, University of Oregon Medical School, Chairman

The philosophy of defining experimental variables, Eugene Gendlin, University of Chicago.

Roles in interview analogues, Kenneth Heller, Indiana University.

Self reinforcement as an analogue variable, Albert R. Marston, University of Wisconsin.

Recent process studies, Frank Auld, Wayne State University.

Discussant: Edward Bordin, University of Michigan.