# Conference Schedule

## Thursday Afternoon

**Wakahi Parlor**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1:45 PM</td>
<td>John Q. Public</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>2:15 PM</td>
<td>Jane Doe</td>
<td>The Biology of Behavior</td>
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<tr>
<td>2:45 PM</td>
<td>Richard Smith</td>
<td>Cognitive Psychology</td>
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</tbody>
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**Grand Ballroom**

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<tr>
<th>Time</th>
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<th>Topic</th>
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<tbody>
<tr>
<td>1:45 PM</td>
<td>Elizabeth Brown</td>
<td>Psychology of Emotions</td>
</tr>
<tr>
<td>2:15 PM</td>
<td>William White</td>
<td>Developmental Psychology</td>
</tr>
<tr>
<td>2:45 PM</td>
<td>Sarah Green</td>
<td>Social Psychology</td>
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## Friday Program

**FRIDAY PROGRAM**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Topic</th>
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<tbody>
<tr>
<td>9:00 AM</td>
<td>1</td>
<td>Child Learning &amp; Development</td>
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<tr>
<td>10:00 AM</td>
<td>2</td>
<td>Perception and Cognition</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>3</td>
<td>Personality and Individual Differences</td>
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<tr>
<td>1:00 PM</td>
<td>4</td>
<td>Psychological Measurement and Research Methods</td>
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<tr>
<td>2:00 PM</td>
<td>5</td>
<td>Psychological Disorders and Treatment</td>
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## Saturday Program

**SATURDAY PROGRAM**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Topic</th>
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<tbody>
<tr>
<td>8:30 AM</td>
<td>1</td>
<td>Attitudes and Beliefs</td>
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<tr>
<td>9:30 AM</td>
<td>2</td>
<td>Conformity and Social Influence</td>
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<tr>
<td>10:30 AM</td>
<td>3</td>
<td>Cognitive Processes and Problem Solving</td>
</tr>
<tr>
<td>11:30 AM</td>
<td>4</td>
<td>Motivation and Behavior</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>5</td>
<td>memory and Learning</td>
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**SYMPOSIUM**

<table>
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<tr>
<th>Time</th>
<th>Topic</th>
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<tr>
<td>1:00 PM</td>
<td>Sensory Psychology and Perception</td>
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<tr>
<td>2:00 PM</td>
<td>Personality and Individual Differences</td>
</tr>
<tr>
<td>3:00 PM</td>
<td>Psychological Measurement and Research Methods</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>Psychological Disorders and Treatment</td>
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## Red Lacquer Room

- 1:45 PM: **SYMPOSIUM**: Sensory Psychology and Perception
- 2:45 PM: **SYMPOSIUM**: Sensory Psychology and Perception

## Red Lacquer Room

- 1:00 PM: **SYMPOSIUM**: The Role of Financial Compensation in Motivational Management

## Grand Ballroom

- 8:30 AM: **SYMPOSIUM**: Perception and Cognition

## Special Events

- 8:30 AM-12:00 PM: PSI CHL Research Papers and Invited Address

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**Midwestern Psychological Association**

**April 29, 30, May 1, 1965**

**Palmer House**

**Chicago, Illinois**

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**Thirty-Ninth Annual Meeting**

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**Program**
GENERAL ANNOUNCEMENTS

Hotel Reservations
Write directly to the Palmer House, State and Monroe Streets, Chicago, 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, 10 a.m. to 8 p.m.; Friday, 8 a.m. to 5 p.m.; Saturday, 8 a.m. to 12 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 $2.00 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
Melvin H. Marx will give the Presidential Address on Friday at 4 p.m. in the Grand Ballroom. A pay-for-your-own Social Hour will follow in the Exhibit Hall, Third Floor.

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

Public Information
The Press Room will be located in Rooms 15 and 16. This service will be directed by Donald McCready, University of Chicago, 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. This service will be directed by James Zamrazil, The Powers Regulator Co., and Forrest Vance, APA Central Office. The Placement Center will be open Thursday from 1 p.m. to 5 p.m.; Friday from 9 a.m. to 5 p.m.; and Saturday from 9 a.m. to 5 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, 1209 17th 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 and a program of invited papers 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, George S. Spence, Illinois Institute of Technology, 3329 South Federal Street, Chicago, Illinois, 60616.

OFFICERS OF THE ASSOCIATION, 1964–65

Council
MELVIN H. MARX, University of Missouri, President
FREDERICK A. MOYE, University of Wisconsin, Secretary-Treasurer
HAROLD W. SAML, University of Illinois
E. JAMES ARCHER, University of Wisconsin
DAVID EHRENBERG, Southern Illinois University

Program Committee
JACK A. ADAMS, University of Illinois, Chairman
RUDOLPH SCHRADER, State University of Iowa
JACOB O. SIEG, University of Missouri
MILTON E. ROSENBAUM, State University of Iowa
FREDERICK A. MOYE, University of Wisconsin, ex officio

Local Arrangements Committee
GEORGE S. SPENCE, Illinois Institute of Technology, Chairman
JACK E. STARCH, Department of Special Education, Lincolnwood, Illinois

Registration
JAMES ZAMRAZIL, The Powers Regulator Co., Skokie, Illinois, Placement
DONALD MCCREADY, University of Chicago, Public Relations
WILLIAM A. HAN, University of Chicago, Audio-visual and Meeting Rooms
WILLIAM A. KULZ, Illinois Institute of Technology, Mail and Information
CHARLES S. DAVENPORT, Chicago Teachers College South, Volunteers

CONVENTION AND OFFICERS, 1965–66

The 1966 Convention will be at the Conrad Hilton Hotel, Chicago, May 5, 6, and 7. Newly elected officers whose terms begin at the end of the 1965 meeting are:

CARL P. DUNGAN, Northwestern University, President
JAMES J. JENKINS, University of Minnesota, Council Member, 1965-68

STATEMENT OF POLICY OF THE ASSOCIATION

The professional problems of psychology are best handled at the national level by the national organization and at the local level by the state organizations. The Midwestern Psychological Association will therefore retain its traditional function of encouraging psychology as a science rather than as a profession. This principle will continue to be reflected in the programming procedures and membership standards.
VERBAL PROCESSES I  
THURSDAY, 3:00–4:30 P.M.  
Grand Ballroom

Jack Richardson, Harpur College, Chairman

3:00  Edwin Martin, University of Michigan. An explanation of grammatical factors in sentence retention: amount vs. kind of structure.

3:15  Edward Matthews and Neal F. Johnson, Ohio State University. Developmental changes in the functional knowledge of phrase structure rules.

3:30  Bruce R. Ekstrand and William P. Walloch, Northwestern University. Implicit and explicit frequency in verbal discrimination learning.

3:45  Robert D. Tette and Edward L. Walker, University of Michigan. The effects of time of reactivation or interference on trace consolidation in verbal learning.

4:00  Alexander M. Buchwald, Indiana University. The effects of immediate vs. delayed outcomes in associative learning.

4:15  Larry M. Lint and Yvonne Brockbill, University of Denver. Arousal and retention.

SHORT TERM MEMORY I  
THURSDAY, 3:00–4:15 P.M.  
Red Lacquer Room

Willard Runquist, University of Alberta, Chairman

3:00  Robert G. Watt, Nicholas L. Rohman, Richard A. Kohler, and David B. Volkman, Indiana University. Effects of amount of material, rehearsal time, and retention interval on short-term memory.

3:15  Paul Sotz, Karl Achenbach, Evan G. Pottishall, and Eileen Fennel, University of Florida. Ear asymmetry in dichotic listening.

3:30  Ralph Schilizze and Donald A. Schumsky, University of Cincinnati. Visual erasing: a parametric investigation and an application to the study of memory over microtime.

3:45  Wayne H. Bartz, University of Florida. Short-term memory for sequential tasks: the effects of strategy instructions, interpolated tasks, and repeated presentations.

4:00  Henry Loess, College of Wooster. Proactive inhibition and word category in short-term memory.
4:00 Ned J. Kline and Jack Werboff, The Jackson Laboratory, Bar Harbor, Maine. Infantile stimulation: effects of intensity on adult performance as a function of task difficulty.

4:15 Bruce John Morrison, Northwestern University. Socially facilitated reduction of the fear response in rats raised in groups or isolation.

4:30 Mike Morra, Xavier University, Cincinnati. Prenatal sound stimulation on postnatal rat offspring behaviors.

PERCEPTION I

THURSDAY, 3:00–4:45 P.M.

Wabash Parlor

U. Tulunoy Kessey, Department of Surgery (Ophthalmology), Medical School, University of Wisconsin, Chairman

3:00 Paul T. Mountjoy, Western Michigan University. Decrement to the Poggendorff illusion figure.

3:15 Henry C. Ellis, University of New Mexico. Transfer of predifferentiation training to gradients of generalization in shape recognition.

3:30 Maurice Hershenson, University of Wisconsin. Perceptual microgenesis as a function of "ward" structure.

3:45 Lloyd F. Effner, Horace A. Page and Margaret Meikter, Kent State University. The effect of a visual display on autokinetic movement.

4:00 Robert Fox and Ronald Check, Vanderbilt University. Visual sensitivity during binocular rivalry and fusion.


4:30 Ronald Kurtz, Joseph L. Zinnmes and Clifford Gillman, Indiana University. Same-different judgments and payoff schedule.

PHYSIOLOGICAL PSYCHOLOGY I

THURSDAY, 3:00–5:00 P.M.

Room #17

David G. McDonald, University of Missouri, Chairman

3:00 Edward S. Ketkin, State University of New York at Buffalo. The relationship between transitory anxiety and spontaneous autonomic activity.


3:30 George H. Zimny and Leonard W. Schwabe, St. Louis University. Orientation and habituation of GSR.
SYMPOSIUM
THURSDAY, 8:00–10:00 P.M.
Grand Ballroom

SENSORY PSYCHOPHYSIOLOGY
Arthur E. Jones, US Army Medical Research Laboratory, Fort Knox, Kentucky, Chairman

Electrophysiological studies of hue discrimination, Russell L. DeVailos, Indiana University.

Neurophysiological coding of angular acceleration parameters by the vestibular system, George H. Crampton, US Army Medical Research Laboratory, Fort Knox, Kentucky.

Stimulus correlates of electrical activity in the brain stem auditory nuclei, James C. Boudreau, US Army Medical Research Laboratory, Fort Knox, Kentucky.

The relevance of electrophysiological recordings to psychophysical theory, Frank Restle, Indiana University.

Discussants: Robert M. Boynton, University of Rochester; Arthur E. Jones, US Army Medical Research Laboratory; and Frank Restle, Indiana University.

SYMPOSIUM
THURSDAY, 8:00–10:00 P.M.
Red Lacquer Room

SAMPLE FREE PROBABILITY MODELS FOR PSYCHOLOGICAL MEASUREMENT
Jane Loewinger, Washington University, Chairman

A ratio scale model for test item difficulty, Paul Blommers, State University of Iowa.

Estimating parameters for the item analysis model, Benjamin Wright, University of Chicago.

Applications of the model to simulated data, Bruce Choppin, University of Chicago.

Application of the model to the Lodge-Thorndike tests, Richard Brooks, State University of New York at Buffalo.

A model for misreadings on oral reading tests, Gary Ramseyer, State University of Iowa.

Discussant: Statistical opportunities and problems in these models, David Wallace, University of Chicago.

VERBAL PROCESSES II
FRIDAY, 8:30–10:30 A.M.
Grand Ballroom

Charles Clifton, Institute for Child Behavior and Development, State University of Iowa, Chairman

8:30 Clessen J. Martin, Frederick Boersma, and David Cox, Michigan State University. Associative strategies in paired-associate learning.

8:45 Harriett Amster and Geoffrey Keppel, University of California, Berkeley. The facilitation of paired-associate learning in children through the use of grammatically specified verbal strings.

9:00 Carlton T. James and James G. Greeno, Indiana University. Stimulus selection in paired-associate learning: effect of amount of first-list learning on transfer to components.

9:15 Theodore R. Dixon and Alan E. Moulton, University of Kentucky. The effect of reinforcement on the retention of incidentally learned material.

9:30 Irving Francis Tucker, Louisiana State University in New Orleans. Scaled sound similarity in aural verbal learning.

9:45 Ronald L. Ernst, Ohio State University. Discriminative cues and information processing in paired-associate learning.

10:00 Norman Braverman and Calvin F. Nodine, Miami University. Effects of stimulus intervals with interpolated activity on paired-associates learning.

10:15 Kenneth A. Jacobs and Neal F. Johnson, Ohio State University. The effects of pronounceability, total exposure time and presentation rate on stimulus selection.

PERSONALITY
FRIDAY, 8:30–10:30 A.M.
Red Lacquer Room

Peter J. Long, University of Wisconsin, Chairman


8:45 Robert Lakota and Sanford Golian, University of Wisconsin-Milwaukee. Effects of response-defined and induced anxiety.

9:30 J. Conrad Schwarz, Bowling Green State University. Influence upon expectancy during delay.
10:00 David A. Knapp, Ohio State University; Robert Perloff and Robert V. Evanson, Purdue University. Development of an instrument for measuring business and professional role conflict in occupations.
10:15 Lyle F. Schoenfeld and W. A. Owens, Jr., Purdue University. Age and intellectual change: a cross-sectional view of longitudinal data.

INDUSTRIAL
FRIDAY, 8:30–10:30 A.M.
State Ballroom
John D. Gould, IBM Watson Research Center, Yorktown Heights, New York, Chairman

8:30 Stephen P. Klein, Educational Testing Service, Princeton University; and W. A. Owens, Jr., Purdue University. Life history and ability correlates of mechanical ingenuity.
8:45 Eugene C. Edel, Department of Defense; and Joseph Tiffin, Purdue University. A "motivational" measure of managerial success.
9:00 Richard P. Shore, Bowling Green State University. The role of the labor arbitrator: an analysis of conflicting expectations.
9:15 Michael Rosenfeld, American Institutes for Research; and W. A. Owens, Jr., Purdue University. The intrinsic-extrinsic aspects of work and their demographic correlates.
9:30 Marvin D. Dunnette, University of Minnesota. Factor structures of unusually satisfying and unusually dissatisfying job situations for six occupational groups.
9:45 George B. Graen, University of Minnesota. The differential perceptions of work motivation by high and low job satisfaction engineers.
10:00 Frederick B. Chaney and Douglas H. Harris, Autonetics, a Division of North American Aviation, Inc., Anaheim, California. The effect of equipment complexity on inspection performance.
10:15 Philip Ash, Inland Steel Company, Chicago. The measurement of industrial relations activities.
9:15 Alvin G. Goldstein and June E. Chance, University of Missouri. Effects of practice on sex-related differences in performance on embedded figures.

9:30 Richard T. Been, Carnegie Institute of Technology. The influence of stimulus sequence on the perceptual response to dot patterns.

9:45 David S. Holmes, Northwestern University. Change in the memory trace of a gapped circle figure; a study of closure.

10:00 Richard E. Christ, University of Massachusetts; and Herbert Gerjuoy, Educational Testing Service, Princeton University. Difficulty context and practice effects in disjunctive reaction.

10:15 George S. Larimer, University of South Florida. Ambiguity and nearness of anchors as factors in assimilation effects.

PHYSIOLOGICAL PSYCHOLOGY II
FRIDAY, 8:30–10:30 A.M.
Room #17

Leonard E. Jarrard, Washington and Lee University, Chairman

8:30 Nicki Ann Newby and Nils James Carlson, Western Reserve University. Effects of dl-amphetamine and eserine on T-maze learning and reversal.

8:45 Joan M. Havlena, Wayne State University School of Medicine. The effects of a chemical radioprotector on the behavior of rat offspring.

9:00 John I. Boles and Roger W. Russell, Indiana University. The effects of reserpine and immobilization-stress on ulceration: a closer look at gastric motility in the rat.

9:15 Donald L. King and Seymour Levine, Stanford University. The effect of auditory restriction during pregnancy on the survival chances of the offspring.


9:45 K. E. Moyer and James H. Korn, Carnegie Institute of Technology. Habituation of the startle response and of heart rate in the rat.

10:00 James H. Korn, Carnegie Institute of Technology. The effect of level of thyroid function on the startle response of the rat.

10:15 Arnold A. Geroll, Tulane University. Effect of early postnatal injections of androgen and estrogen on the rat's estrous behavior.


11:45 Sam C. Brown, Eugene D. Rubin, Kansas State University; and Alfred Volkowitz, Kennesaw College. Cue selection in serial learning.

12:00 Thaddeus M. Cowan, Albion College. A Markov model for order of emission in free recall.

SOCIAL INTERACTION AND EVALUATION
FRIDAY, 10:30 A.M.—12:15 P.M.
Red Lacquer Room

Paul C. Rosenblatt, University of Missouri, Chairman

10:30 Jerald Jellison and Judson Mills, University of Missouri. The effect of attitude similarity and good fortune on attraction.

10:45 Deanne E. Knope, Otterbein College; and Karl E. Weick, Purdue University. Interrelationships among measures of affiliation motivation.

11:00 Howard Rosenfeld, University of Kansas. Gestural and verbal communication of interpersonal affect.

11:15 Norman Miller, Yale University; and Philip G. Zimbardo, New York University. Similarity vs. emotional comparison as motives for affiliation.

11:30 Frederick D. Herzog, University of Illinois; and Shel Feldman, University of Pennsylvania. Changes in prestige as a function of the number of unpopular stunts taken.

11:45 Leon H. Levy, Indiana University. The effects of value, variance, and sample size on judgmental confidence and variance in social perception.

12:00 Charles F. Schmidt and Milton E. Rosenbaum, State University of Iowa. Adding vs. averaging in impression formation.

CLINICAL PSYCHOLOGY
FRIDAY, 10:30 A.M.—12:30 P.M.
State Ballroom

A. Jack Hafner, University of Minnesota, Chairman

10:30 Charles G. Matthews and Dale J. Shaw, School of Medicine, University of Wisconsin. Psychometric and adaptive ability comparisons in neurologic and pseudo-neurologic subjects.

10:45 Hallgrim Klys, School of Medicine, University of Wisconsin. Differential WAIS patterns in lateralized and diffuse encephalopathy.

11:00 William Seeman, University of Cincinnati; and Philip A. Marks, University of Kansas Medical Center. Some correlates of actuarial description of personality.

11:15 Paul R. Dokecki, Lewis G. Polidoro, George Peabody College; and Rue L. Crowell, Vanderbilt University Medical Center. Commonality and stability of word association responses in good and poor premorbid schizophrenics.

11:30 Misha S. Zaks, Northwestern University Medical School. Anomia, psychological dysfunction and self injurious behavior: a study in suicidal potential.

11:45 Albert I. Prince, Evansville College. The control of perceptual response choice by social reinforcement.


MEDIATION PROCESSES
FRIDAY, 10:30 A.M.—12:15 P.M.
Victoria Room

Albert Erlebacher, Northwestern University, Chairman

10:30 William P. Wallace, Northwestern University. False recognition produced by implicit verbal responses with retarded Ss.

10:45 Margaret Jean Peterson and Sarah D. Hillner, Indiana University. The effects of spaced practice sessions on mediating responses.

11:00 David E. Grover and David L. Horton, University of Kentucky. The effect of a meaningful mediator on facilitation and interference in a four stage paradigm.

11:15 Ronald E. Wiley and David L. Horton, University of Kentucky. The effect of mediation on previously formed associations.

11:30 Charles Clifton, Jr., Institute of Child Behavior and Development, State University of Iowa. Initial transfer in the mediation of paired associates.

11:45 Robert C. Radtke, University of Rochester. Verbal mediation of drive effects.

12:00 Harold O. Kiess and William F. Montague, University of Illinois. Effects of mediational training and repeated non-reinforced test trials on paired-associate learning and retention.
OPERANT CONDITIONING  FRIDAY, 10:30 A.M.–12:30 P.M.  
Wabash Parlor

William Waggon, Southern Illinois University, Chairman

10:30  Charles Snyder and Merrill Noble, Kansas State University. Operant conditioning of vasooconstriction.

10:45  John F. Kane and Bill J. Locke, University of Kansas. Food-reinforced behavior and diet control with the human subject.

11:00  Jack T. Tepp and Lance L. Simpson, Vanderbilt University. Motivational and response factors as determinants of the reinforcing value of a stimulus change.

11:15  Paul W. Becker and James L. Bruning, Ohio University. Goal gradient during acquisition, partial reinforcement and extinction of a five-part response chain.

11:30  John B. Ayres and John W. Donohoe, University of Kentucky. Conditioned suppression and the Egger-Miller information hypothesis.

11:45  Rina Less and David R. Thomas, Kent State University. Extra-dimenstional discrimination training and stimulus generalization.

12:00  Robert C. Colffe, University of Wisconsin. Two-choice behavior under limiting cases of contingent reinforcement.


MOTIVE–INCENTIVE CONDITIONS II  FRIDAY, 10:30 A.M.–12:30 P.M.  
Room #17

Roger Block, State University of Iowa, Chairman


11:00  Alexander J. Rosen and James R. Ison, University of Rochester. Runway performance following decrements in the concentration and duration of liquid rewards.

11:15  Daniel Hamilton and F. Robert Treichler, Kent State University. A comparison of deprivation effects on consummatory responding for water or air.

11:30  Fred P. Volle, University of Michigan. The effect of the reintroduction of ad lib food maintenance on the runway behavior of rats.


12:00  James L. Bruning and B. L. Kinz, Ohio University. Suppression of a learned response by punishment when an alternative learned response is provided.

12:15  Theo B. Sonderegger, Nebraska Psychiatric Institute. Stimulus cues and drive level as parameters of avoidance gradients.

SENSORY PROCESSES  FRIDAY, 10:30 A.M.–12:30 P.M.  
Room #14

Russell L. DeValois, Indiana University, Chairman


10:45  William E. Caskey, Jr., Hauhornden State Hospital; and Lloyd F. Effner, Kent State University. Continuity of alternating sounds as a function of manner of presentation.


11:15  U. Tulvanay Keesey, Medical School, University of Wisconsin. Role of involuntary eye movements in sensitivity of the eye to temporal variations of luminance.

11:30  Dean H. Owen and Donald R. Brown, Purdue University. Physical correlates of tactual pattern discrimination.

11:45  George S. Harker, US Army Medical Research Laboratory, Ft. Knox, Kentucky; and Charles F. Gettys, University of Louisville. Quantitative measurement of the Panum’s depth phenomenon.

12:00  David R. Perrott and Lloyd F. Effner, Kent State University. The effects of prolonged binaural intensity imbalance on a binaurally induced auditory image.

MEASUREMENT
FRIDAY, 10:30 A.M.–12:30 P.M.
Room #18

Dee W. Norton, State University of Iowa, Chairman

10:30 James D. Linden and Steven G. Goldstein, Purdue University. The development and evaluation of an instrument to measure facility in the solution of novel problems.

10:45 Charles J. Cranney, A. C. Mackinney, and Leroy Wolins, Iowa State University. Improvement in validity and reliability through application of continuous confidence responses to aptitude test items.

11:00 Arthur L. Dudyca and James C. Naylor, Ohio State University. The effect of variations in the cue R matrix upon the obtained policy equations of judges.

11:15 Norman M. Abrahams, University of Minnesota. Interest item selection: number or nature?

11:30 Steven G. Vandenberg, School of Medicine, University of Louisville. A cross-cultural comparison of a cognitive factor structure.

11:45 John M. Butler, University of Chicago. A new model for factor analysis.

12:00 Robyn Mason Dawes, Ann Arbor VA Hospital and University of Michigan; Michael E. Brown, Sara Lawrence College; and Nancy Kaplan, University of Michigan. The skewed hourglass: a configurational approach to constructing a Guttman scale when domination is unspecified.

12:15 Frank M. Goode, University of Michigan. A conjoint measurement method for the distributive law: w(u+v).

SYMPOSIUM
FRIDAY, 1:00–3:00 P.M.
Red Lacquer Room

THE ROLE OF FINANCIAL COMPENSATION IN MANAGERIAL MOTIVATION
Marvin D. Dunnette, University of Minnesota, Chairman

The motives of industrial managers, Marvin D. Dunnette, University of Minnesota.

Managerial perceptions of compensation, Edward E. Lawler, III, Yale University.

The concept of equity in the perception of pay, Karl E. Weick, Purdue University.

Pay for performance: a research report, Stuart Klein, IBM, New York, N.Y.

Needed research and some research designs, Robert L. Optsahl, University of Minnesota.

OPEN MEETING
FRIDAY, 1:00–3:00 P.M.
Room #14

CORRESPONDING COMMITTEE OF FIFTY OF DIVISION 12, APA

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

PRESIDENTIAL ADDRESS
FRIDAY, 4:00 P.M.
Grand Ballroom

G. Robert Grice, University of Illinois, Chairman

THE ACTIVATION OF HABITS
Melvin H. Marx, University of Missouri
SOCIAL HOUR
FRIDAY, 5:00 P.M.
Exhibit Hall, Third Floor

SYMPOSIUM
FRIDAY, 8:00–10:00 P.M.
Grand Ballroom

THE USE OF TELEVISION IN THE TEACHING OF PSYCHOLOGY
E. James Archer, University of Wisconsin, Chairman
The effective use of television in teaching, E. James Archer, University of Wisconsin.
One experience with televised teaching, Don E. Dulany, University of Illinois.
TV versus the traditional lecture, Edward L. Walker, University of Michigan.
Learning theory principles underlying TV teaching, B. Richard Bugelski, State University of New York at Buffalo.
No make-up, please, Gary Gumpert, Producer, University of Wisconsin Radio and TV Studios.

SYMPOSIUM
FRIDAY, 8:00–10:00 P.M.
Red Lacquer Room

IMPLICATIONS OF CONDITIONING TECHNIQUES FOR INTERVIEW THERAPY
Brendan Maher, University of Wisconsin, Chairman
Psychotherapy, pseudo-therapy, and behavior therapy, Peter J. Lang, University of Wisconsin.
Conditioning and therapeutic conditions: parallel processes in conversation, therapy, Charles B. Truax, University of Kentucky.
The interview in conditioning therapies, Frederick Konfer, University of Oregon Medical School.
Operant techniques in clinical practice, T. Ayllon, Anna State Hospital.
Needed: a broader perspective for interview therapy, Kenneth Heller, Indiana University.
Discussant: Albert Marston, University of Wisconsin.

ATTITUDES
SATURDAY, 8:30–10:30 A.M.
Grand Ballroom

Martin Fishbein, University of Illinois, Chairman
8:30 Richard E. Goranson, University of Wisconsin. Effects of the experimenter's prestige on the outcome of an attitude change experiment.
8:45 Paul C. Rosenblatt, University of Missouri. Enhancement of persuasion by threat.
9:00 Robert Buckhout, Washington University. Changes in heart rate accompanying attitude change.
9:15 Jack E. Rossman, Macalester College; and David P. Campbell, University of Minnesota. Characteristics of political liberals and conservatives.
9:45 Nancy T. Aldrich, VA Center, Des Moines, Iowa. Children's level of curiosity and maternal child-rearing attitudes.
10:00 David P. Campbell, University of Minnesota; and Jack E. Rossman, Macalester College. A liberalism-conservatism scale for the Strong Vocational Interest Blank.

CONCEPT FORMATION
SATURDAY, 8:30–10:00 A.M.
Red Lacquer Room

Lowell Schipper, Pennsylvania State University, Chairman
8:30 R. Dale Dick and Homer B. Reed, Fort Hays Kansas State College. The learning and generalization of abstract and concrete concepts.
8:45 Keith N. Clayton, Thomas B. Leonard, and Coleman T. Merryman, Vanderbilt University. Concept identification as a function of the relevant dimension.
9:00 William Bogatz, University of Kansas. Reversal and nonreversal shifts with CVC stimuli.
9:15 James R. Erickson, Myron M. Zajkowski and Evan D. Ehmann, Ohio State University. All-or-none assumptions in concept identification; analysis of latency data.

9:30 Robert C. Heygood and John B. Kiehlbouch, Kansas State University. Logical pre-training in conceptual rule learning.

9:45 Roger W. Schvonefeldt, University of Wisconsin. Concept identification as a function of probability of positive instances and amount of relevant information.

**SHORT TERM MEMORY II**

**SATURDAY, 8:30-9:45 A.M.**

State Ballroom

Donald A. Schumsky, University of Cincinnati, Chairman

8:30 Charles D. Corman and Delos D. Wickens, Ohio State University. Retroactive inhibition in short-term memory.

8:45 Roy P. Wittlinger and Delos D. Wickens, Ohio State University. Post stimulus cuing in short-term memory.

9:00 John G. Borkowski, State University of Iowa. Distributed practice in short-term memory.

9:15 Robert E. Morin, Kent State University and Marvin L. Kuniel, UCLA. Short-term memory: keeping track of many variables at many stimulus rates.

9:30 Donald DeRosa and Robert E. Morin, Kent State University. Memory search through a highly ordered set.

**ANIMAL LEARNING**

**SATURDAY, 8:30-10:30 A.M.**

Wabash Parlor

D. Gene Davenport, St. Louis University, Chairman

8:30 M. H. Kellicutt, University of California, Davis. Response duration during an operant discrimination.

8:45 Ken-ichi Takekura and Robert E. Bowman, Regional Primate Center, University of Wisconsin. Stimulus-response discontinuity, hypothesis behavior and response shift in monkeys trained on learning set.

9:00 R. Allen Gardner, University of Nevada; and W. B. Coate, Hazleton Laboratories. Positive and negative transfer in discrimination reversal.


9:30 Robert Kinsman, University of Colorado; and V. Edwin Bixenstine, Kent State University. Secondary reinforcement as a function of shock termination.

9:45 H. Wayne Ludvigson, Southwestern Medical School, Dallas; and James H. McHose, Southern Illinois University. "Delay-encumbered avoidance" reconsidered.

10:00 James M. Whitehouse, Montana State University. Cholinergic mechanisms in discrimination learning with redundant cues.

10:15 Donald J. Levis, Lafayette Clinic, Detroit. The effects of characteristics of the CS on acquisition and extinction of the conditioned avoidance response.

10:00 James R. Ison and Alexander J. Rosen, University of Rochester. Extinction as a function of numbers and magnitudes of sucrose rewards.

**MOTIVE–INCENTIVE CONDITIONS III**

**SATURDAY, 8:30-10:15 A.M.**

Victorian Room

Gene P. Sockett, University of Wisconsin, Chairman


8:45 Anthony J. Marselle, Pennsylvania State University; and F. Robert Freiehler, Kent State University. Extent of deprivation and probability learning performance by rats.

9:00 Robert P. Rey and Glen D. Jensen, De Paul University. Runway performance under conditions of "magic" regeneration of reward versus gradual diminution of reward supply.
MOTOR SKILLS
SaturDaY, 8:30–9:45 A.M.
Room #17

Merrill E. Noble, Kansas State University, Chairman

8:30 Henry S. Rosensweig, Central Michigan University. The visual response component of rotary pursuit tracking.


9:00 Clyde E. Noble, University of Georgia. Human selective learning under correction and non-correction methods.

9:15 Don A. Trumbo, Kansas State University; and Lynn Ulrich, The Peace Corps. Sequence length and number of alternatives in the acquisition of a fixed-sequence tracking task.

9:30 Douglas G. Mueller and Henry C. Ellis, University of New Mexico. Transfer of predifferentiation training to an instrumental task.

ANIMAL LESIONS AND ABLATIONS
SATURDAY, 8:30–10:30 A.M.
Room #14

Gilbert W. Meier, Laboratory of Perinatal Physiology, NIH, San Juan, Puerto Rico, Chairman

8:30 Patricia M. Meyer and David A. Yutzey, Ohio State University. Effects of simultaneous septal-neocortical lesions upon emotionality and relearning of a black-white discrimination.

8:45 David J. Barker, Department of Psychology, and Garth J. Thomas, Department of Physiology and Biophysics, University of Illinois. Ablation of cingulate cortex in rats impairs alternation learning and retention.

9:00 Reymond P. Kesner, University of Illinois. Effects of reticular lesions on learning and exploratory behavior.

9:15 Donnell Creel, University of Missouri and VA Hospital, Kansas City; and Charles L. Sheridan, University of Alberta. Monocular acquisition and interocular transfer of a pattern discrimination in albino rats with unilateral striate lesions.

9:30 Frederick U. Metcalf, University of Mississippi Medical Center; and James C. Mitchell, Southern Illinois University. Limbic lesions, glycosuria, and food preferences in rats.


10:00 Leonard E. Jarrett, Washington and Lee University; and Robert L. Issacson, University of Michigan. Hippocampal ablation in rats: research on effects of intertrial interval.

10:15 Geyle Hostetter, University of Illinois. Effects of lesions in the hippocampus on maze learning in the rat.

PSI CHI
SATURDAY, 8:30 A.M.–12:00 M.
Crystal Room

BUSINESS MEETING, 8:30–9:00

PAPER READING SESSION 9:00–10:45

Vytasas J. Bieliauskas, Xavier University, Chairman

9:00 Jean Weite, Baldwin–Wallace College. The use of a placebo stimulus in the reduction of anxiety and discomfort from receiving an injection of influenza vaccine.

9:15 Willy Johnson, Baldwin–Wallace College. Differences in meanings of concepts between Negro and Caucasian groups as measured by the semantic differential.

9:30 Harry Hosey, Jr., Xavier University. The effect of auditory reward on visual perception of figure ground.

9:45 Joyce Ann Fleming, Ohio Wesleyan University. Decision making as function of delay and magnitude of reward.

10:00 John E. Rupke, Alma College. The effects of delay of punishment on avoidance responding.

10:15 Mary Jo Owens, Indiana University. Conditioning of unique and common responses in verbal material.


PSI CHI INVITED ADDRESS, 11:00

Richard D. Young, Indiana University, Chairman

CURIOSITY, COMPASSION, AND DOUBT: THE DILEMMA OF THE PSYCHOLOGIST

Edward S. Bordin, University of Michigan
VERBAL PROCESSES IV
SATURDAY, 10:30 A.M.—12:15 P.M.
Grand Ballroom

William E. Montague, University of Illinois, Chairman

10:30 Roger L. Dominowski, De Paul University. Anagram solving as a function of letter moves.

10:45 Neal E. A. Kroll, University of Wisconsin. The measurement of the relative importance of word and color for concept learning.

11:00 Nicholas L. Rohman and Philip B. Gough, Indiana University. Semantic satiation, forewarning, and decision latency.

11:15 Philip B. Gough, Indiana University. Syntactic structure and the verification of sentences.

11:30 William E. Gumenik and Edward S. Perlmuter, University of Toledo. Verbal repetition, set, and decision latency.


12:00 Peter G. Polson and James G. Greene, Indiana University. Nonstationary performance before all-or-none learning.

SOCIAL INTERACTION
SATURDAY, 10:30 A.M.—12:30 P.M.
Red Lacquer Room

Vernon L. Allen, University of Wisconsin, Chairman

10:30 Philip H. Friedman, University of Wisconsin. Social class differences in social responsibility behavior.

10:45 Ronald K. James, William H. Starbuck, and Donald C. King, Purdue University. A study of performance in a business game.

11:00 Daniel Perlman, University of Michigan; and Stuart Osborn, Claremont Graduate School, Claremont, California. The effects of friendship on cooperation in the Prisoner's Dilemma game.

11:15 Franklyn A. Perry and James W. Julian, State University of New York at Buffalo. An experimental comparison of competitive and non-competitive group relations.

11:30 William Payne, Training Research Laboratory, US Naval Personnel Research Activity, San Diego, California. Acquisition of strategies on 5x5 2-person zero-sum games.

11:45 Richard H. Willis, Washington University. Social influence, information processing, and net conformity in dyads.

12:00 Edward J. O'Connell, Carnegie Institute of Technology. Relationships between leadership and personality characteristics.

12:15 Fred E. Fiedler, University of Illinois. The effectiveness of culturally homogeneous and heterogeneous groups under weak and strong leadership—an experiment on multi-lingual military units.

PSYCHOTHERAPY
SATURDAY, 10:30 A.M.—12:00 M.
State Ballroom

Charles B. Truax, University of Kentucky, Chairman

10:30 Alfred Baumeister, Central Michigan University. Application of reinforcement principles to toilet training of the severely retarded.

10:45 John E. Exner, Jr., Bowling Green State University. Therapist attendance as a variable in group psychotherapy.

11:00 Charles S. Cleeland, University of Missouri Medical School; George Psathas, Washington University; and Kenneth Heller, Indiana University. Computer content analysis of therapy—analogue interviews.

11:15 Clifford H. Swensen and Frank Gilner, Purdue University. Personality factors in psychotherapeutic success.

11:30 Richard A. Sanders, Norfolk State Hospital, Norfolk, Nebraska. Behavior modification of a two year old child.

11:45 Gary E. Stolz, Barney Alexander, Stewart Proctor, Indiana University; and Bernard Guerney, Jr., Rutgers University. Problems in living, psychotherapy process research, and an autoanalytic method.

CHOICE BEHAVIOR
SATURDAY, 10:30 A.M.—12:30 P.M.
Victorian Room

Daniel C. O'Connell, St. Louis University, Chairman


10:45 Allen Schenck and James C. Neylor, Ohio State University. Some data concerning performance indices based upon the multiple regression model when applied in a standard multiple cue situation.

11:00 Daniel S. Lordahl, University of Miami, Coral Gables, Florida. Types of hypotheses as a function of instructions and problems.

11:30 Irma R. Gerquoy, Johnstone Training and Research Center, Borden-town, New Jersey; and John J. Winters, Jr., Swarthmore College. Binary-choice responses of retardates, normal children, and college students to similar or dissimilar stimuli.

11:45 Grace E. Hinrichs, Augsburg College; and Mary J. Mayer, University of Minnesota. Reinforcement matching in two-choice competitive situations.

12:00 William C. Horne and Milton E. Rosenbaum, State University of Iowa. The effect of knowledge of another's competence on probability learning.


**COMPARATIVE PSYCHOLOGY**

**SATURDAY, 10:30-12:30 P.M.**

**Wabash Room**

**Robert E. Bowman, Regional Primate Center, University of Wisconsin, Chairman**

10:30 Robert L. Collins, Cleveland Psychiatric Institute and School of Medicine, Western Reserve University. Phenotypic variability, genetic non-additivity, and heterozygosity: a murine avoidance conditioning study.

10:45 Martin Manosevitz, Rutgers University. A genetic analysis of hoarding.


11:15 Arthur E. Harriman, Ripon College; and Morley R. Kare, North Carolina State of the UNC at Raleigh. Aversiveness to the taste of NaCl in starlings, purple grackles, and herring gulls.


11:45 Gloria J. Fischer and Sara C. Gilman, University of South Florida. The role of the auditory stimulus in imprinting.

12:00 Stanley Wecklin, Jules H. Messereman and Richard H. Simonson, Northwestern University Medical School. Parameters of social choice in Rhesus monkeys.


**EDUCATIONAL PSYCHOLOGY**

**SATURDAY, 10:30-12:30 P.M.**

**Room #17**

John W. Giebink, University of Wisconsin, Chairman

10:30 Homer L. Broadshaw, Ohio University; and Richard Kehoe, George Peabody College for Teachers. Differential effects of fraternity and sorority membership upon academically promising students.


11:00 Richard E. Stafford, University of Louisville Medical School. The inverse relationship between spatial visualization and grades in a foreign language.

11:15 Robert J. Kibler and David T. Miles, Southern Illinois University. A two-year report on an experiment with three Freshman programs designed to increase the college success of high school low achievers.


11:45 Martin E. Smith, Donald C. King, Warren F. Seibert, and Richard E. Snow, Purdue University. The prediction of learning effects from linear program characteristics.

12:00 E. Houghton and O. R. Lindsey, University of Kansas Medical Center. Programmed rehabilitation: typing instruction for the blind.

12:15 Frederick J. Boersma and Cornelius VenderVeen, Michigan State University. Programmed learning performance: an interaction between delays of informative feedback and the postfeedback interval.

**PHYSIOLOGICAL PSYCHOLOGY III**

**SATURDAY, 10:30 A.M.—12:30 P.M.**

**Room #14**

Arnold A. Geroll, Tulane University, Chairman

10:30 Susan M. Clerk and Donald R. Meyer, Ohio State University. The effect of septal and cortical ablations on emotionality in the albino rat.

10:45 Gilbert W. Meier and Ralph J. Berger, Laboratory of Perinatal Physiology, NIH, San Juan, Puerto Rico. The development of sleep and wakefulness patterns in the infant Rhesus monkey Macaca mulatta.

11:00 Jacques A. Chevalier, Roosevelt University. Complete retention of T-maze reversal following a single post-trial ECS.

11:30 Nelson L. Freedman and Leonard Lash, University of Missouri. The effects of KCl induced spreading depression on conditioned avoidance.

11:45 David A. Yutzey and Patricia M. Meyer, Ohio State University. Genetically related effects of neocortical ablations upon emotionality and relearning of a black-white discrimination in the rat.

12:00 Norman Dunsmore and Donnell Creet, VA Hospital and University of Missouri at Kansas City; and Charles L. Sheridan, University of Alberta. Enhanced discrimination learning in hemi-decorticated rats.


SYMPOSIUM

SATURDAY 1:00-3:00 P.M.
State Ballroom

PERCEPTION BY SUB-HUMAN PRIMATES

Roger T. Davis, University of South Dakota, Chairman

Development of perception, Robert L. Fanta, Western Reserve University.
Pattern perception by monkeys, Kenneth M. Michels, Florida Atlantic University.

Psychophysical scaling, Isaac Behar, US Army Medical Research Laboratory, Fort Knox, Kentucky.

Spatial perception by monkeys, Roger T. Davis, University of South Dakota.
Pattern discrimination in monkeys, V. J. Polidoro, Regional Primate Center, University of Wisconsin.