

NATIONAL COUNCIL  
ON  
MEASUREMENT IN EDUCATION

---

1972 ANNUAL MEETING

---

April 4-6, 1972  
Hotel LaSalle  
Chicago, Illinois

## NCME OFFICERS

Jack C. Merwin, *President*

William E. Coffman, *President-elect*

Irvin J. Lehmann, *Secretary-Treasurer*

## DIRECTORS

1 Year

2 Years

3 Years

Joan Bollenbacher

Joseph L. Mazur

William E. Coffman

Carmen J. Finley

Jack C. Merwin

Thomas J. Fitzgibbon

Richard E. Schutz

Howard W. Stoker

Annie W. Ward

## PROGRAM COMMITTEE

The Program Committee wishes to express its appreciation to the officers, the meeting participants and the membership of NCME and to the staff of AERA for their cooperation in developing and implementing plans for the 1972 Annual Meeting. The Committee solicits comments from the membership regarding all aspects of the 1972 Program and suggestions for the 1973 Program.

Christine McGuire, *Chairman*

Bruce Rogers, *Chairman-elect*

Robert Rainey, *Past Chairman*

William Crawford



## NCME SPECIAL EVENTS

### BOARD OF DIRECTORS MEETING

9:00 a.m.—6:00 p.m. Monday, April 3—Caucus Room

### INTERNATIONAL INVITATIONAL SYMPOSIUM ON TESTING AND CROSS-NATIONAL STUDIES

4:00-6:00 p.m. Tuesday, April 4—Douglas Room

### ANNUAL BREAKFAST AND PRESIDENTIAL ADDRESS

8:30 a.m.-10:30 a.m. Wednesday, April 5—Lincoln-Douglas Room

### ANNUAL BUSINESS MEETING

10:45 a.m.-12:15 p.m. Wednesday, April 5—Press Gallery

### SHOWCASE: SIMULATION AS A TESTING TECHNIQUE

4:00-6:00 p.m. Wednesday, April 5—Douglas Room

### RELATED AERA-DIVISION D SPECIAL EVENTS

(See AERA Program for details)

#### Invitational Addresses

2:15-3:45 p.m. Tuesday, April 4

12:30-2:00 p.m. Thursday, April 6

#### Division D Business Meeting

4:00-5:30 p.m. Thursday, April 6

## GENERAL INFORMATION

### REGISTRATION

Members and guests are requested to register at the NCME Registration Desk on the mezzanine of the Hotel LaSalle where they will receive badges that admit them to all NCME sessions, including NCME-AERA joint sessions. There is no registration fee for either members or guests of the organization.

### HOSPITALITY AND MESSAGE CENTER

The Caucus Room on the 18th floor of the Hotel LaSalle has been established as the hospitality room and message center for the duration of the 1972 Annual Meeting. NCME members and guests are invited to use these facilities to contact their colleagues. Members are also urged to report any problems and to submit comments and inquiries about the Annual Meeting to NCME personnel who will be available there.

### PARTICIPANTS

**All participants** are requested to report to the front of the room in which their Session is scheduled at **least ten minutes prior** to the beginning of the Session, to identify themselves to the chairman of the Session and to check to assure that all equipment which they will need for their presentation is available and properly set up. Any deficiency should be reported promptly to NCME personnel available in the Message Center.

**Chairmen** have been instructed to initiate and conclude each session on schedule and to take whatever measures they deem necessary to insure that presentations do not exceed the allotted time limits. They will appreciate cooperation in this regard.

**Authors** who wish to make reprints of their complete paper available are requested to deposit with NCME personnel at the Message Center one clean copy suitable for xeroxing at their earliest convenience. This copy should carry the following notation: "NCME is authorized to reproduce this paper for limited distribution at the Annual Meeting; explicit permission of the author is required for further reproduction of this paper or of any portion thereof."

## **GRADUATE STUDENT GUESTS**

The students whose names appear on page 24 of the program have been invited to attend the 1972 Annual Meeting as guests of the Council in order to provide them with an opportunity to become familiar with the activities of the Council and to provide the Program Committee with feedback that will assist it in the evaluation of this meeting and in the planning of future meetings. Members may also wish to extend a special welcome to these guests.

## **REPRINTS**

Members wishing copies of detailed abstracts (approximately 1000 words) or the entire text (when available) of papers presented at the Annual Meeting can place their orders at the Message Center in the Caucus Room. Payment at 10c per page must accompany orders. Orders will be taken up until 4:00 PM each day and will be available for pick up at the same desk by 10:00 AM the following day.

## PROGRAM SUMMARY

Time	Tuesday-April 4 Session #-Title	Wednesday-April 5 Session #-Title	Thursday-April 6 Session #-Title
8:30 10:30 a.m.		13 -	21 - Research Findings and Models Useful to Practitioners and Other Decision-Makers
9:00 10:30 a.m.	1 - Theories of Criterion Referenced Testing 2 - Attitude Measurement at the Elementary School level 3 - Program Evaluation and Administrative Reporting	ANNUAL BREAKFAST AND PRESIDENTIAL ADDRESS	22 - Evaluation of Performance Contracting: Empirical Findings and Observations 23 - The Evaluation of Creativity
10:45 a.m. 12:15 p.m.	4 - Criterion-Referenced Testing: The Florida Experience 5 - Predictors of Academic Success for Black students in Higher Education 6 - Altering the Conditions of Test Administration	14 -  ANNUAL BUSSINESS MEETING	24 - Computer Analysis of Student Writing: Progress in Style and Content 25 - Application of the National Assessment Model to State Assessments 26 - Occupational Perception and Career Choice

12:30  2:00 p.m.	7 - Bayesian Methods and Educational Measurement 8 - Measurement of Complex Cognitive Processes 9 - Ability Grouping: Helpful or Harmful?	15 - Techniques for Item Analysis 16 - Studies of the Disadvantaged 17 - An Alternative to a Standardized Standardized Testing Program	27 - Applications of Item Sampling Techniques 28 - Correlates of Achievement
2:15  3:45 p.m.	9 - (continued) 10 - Environmental Influences and Their Effect on Learning 11 - The Development and Management of Banks of Performance Based Test Items	17 - (Continued) 18 - Testing Professionals: Art, Skill, Knowledge 19 - Development of Attitude Measures for Special Purposes	29 - Development of New Measures of Cognitive Abilities for Ethnically and Socio-economically Disadvantaged Children 30 - Factors Influencing Test Reliability and Validity 31 - Grading Practices
4:00  6:00 p.m.	12 - International Invitational Symposium on Testing and Cross-National Studies	20 - Showcase: Simulation as a Testing Technique	32 - Course and Instructor Evaluation 33 - Technical Components of Item Writing* 34 - Statistical Topics*  (*Concludes at 5:30 p.m.)

## DETAILED PROGRAM

Note: Paper sessions are identified with the symbol [P]  
Symposia are identified with the symbol [S]  
Symposia organizers are identified with the symbol [O]

The number in brackets to the right of each title refers to the number of the abstract of that paper or symposium as published in *Measurement News*. In ordering reprints refer to this number.

### SESSION 1: THEORIES OF CRITERION REFERENCED TESTING [S]

(NCME-AERA Joint Symposium)

Tuesday  
April 4  
9-10:30 a.m.  
Chicago  
Room

Chairman:

W. James Popham, *University of California at Los Angeles*

Presenters:

Samuel A. Livingston (O), *Johns Hopkins University* [1]

Thomas E. Kriewall, *Institute for Educational Research*

Steven H. Ivens, *College Entrance Examination Board*

Discussants:

Michael M. Ravitch, *Stanford University*

Richard Schutz, *Southwest Regional Laboratory*

William E. Coffman, *University of Iowa*

### SESSION 2: ATTITUDE MEASUREMENT AT THE ELEMENTARY SCHOOL LEVEL [P]

Tuesday  
April 4  
9-10:30 a.m.  
Press  
Gallery

Chairman:

William A. Mehrens, *Michigan State University*

Attitude Measurement of Pupils with Varying Reading Abilities: Semantic Differential Using Concepts Presented by Transparencies [2]

Hallie Davis Francies, *Cleveland Public Schools*

The Reliability and Usability of a Semantic Differential Attitude Scale With Third Through Fifth Grade Students [3]

Henry J. Oles, *Southwest Texas State University*

John O. Bolvin, *University of Pittsburgh*

Dimensions of a Scale of Attitude Toward the Learning of French as a Second Language and Their Correlates [4]

Bikkar S. Handhawa and Susan Korpan,  
*University of Saskatchewan*

Discussant:

Richard C. Cox, *University of Pittsburgh*

**SESSION 3: PROGRAM EVALUATION AND  
ADMINISTRATIVE REPORTING [P]**

- Chairman  
James R. Sanders, *Indiana University*
- Payment by Results: The Analysis of a 19th  
Century Performance Contracting Program [5]
- Peter W. Airasian, *Boston College*  
Thomas Kellaghan, *St. Patrick's College, Dublin*  
George F. Madaus, *Boston College*  
Joseph P. Ryan, *University of Chicago*
- Quality Control Indicators in Assessing Criterion-  
Referenced Instructional Programs [6]
- Ralph A. Hanson, *Southwest Regional Laboratory*
- Proficiency Status Reporting in an Instructional  
Management System [7]
- John F. McManus, *Southwest Regional Laboratory*
- Discussant:  
Irvin J. Lehmann, *Michigan State University*

Tuesday  
April 4  
9-10:30 a.m.  
Douglas  
Room

[5]

[6]

[7]

**SESSION 4: CRITERION-REFERENCED TESTING:  
THE FLORIDA EXPERIENCE [S]**

- Chairman:  
William H. Castine, *Florida A & M University*
- Presenters:  
T. Salvatore Tocco (O), *University of South  
Florida*  
Willard H. Nelson, *Florida Atlantic University*  
John P. Healy, *The Florida State University*
- Discussants:  
Joseph Mazur, *University of South Florida*  
Richard Jaeger, *United States Office of Edu-  
cation*  
Rodney Skager, *University of California, Los  
Angeles*

Tuesday  
April 4  
10:45 a.m.-  
12:15 p.m.  
Douglas  
Room

[8]

**SESSION 5: PREDICTORS OF ACADEMIC SUCCESS FOR  
BLACK STUDENTS IN HIGHER EDUCATION [S]**

Tuesday  
April 4  
10:45 a.m.-  
12:15 p.m.  
Press  
Gallery

Chairman:

William E. Sedlacek (O), *University of Maryland*

[9]

Participants:

Glenwood C. Brooks, Jr., *University of Maryland*  
Lloyd G. Humphreys, *National Science Foundation*

Charles L. Thomas, *University of Indiana*

**SESSION 6: ALTERING THE CONDITIONS OF TEST  
ADMINISTRATION [P]**

Tuesday  
April 4  
10:45 a.m.-  
12:15 p.m.  
Lincoln  
Room

Chairman:

Fred M. Smith, *Louisiana State University*

**Application of Cinepsychometric Techniques to the  
Measurement of Logical Thinking Abilities**

[10]

John O. Towler, David C. Rand, and John F. Feldhusen,  
*Purdue University*

**Effects of Subjects' Exposure to Time Limit Cues  
Upon Test Means, Variances, and Reliabilities**

[11]

Robert J. Sternberg, *Yale University*

**Risk-Taking in Criterion-Referenced Testing**

[12]

Eva Baker and Arlene G. Fink,  
*University of California at Los Angeles*

Discussant:

Warren W. Willingham, *College Entrance Examination Board*

**SESSION 7: BAYESIAN METHODS AND EDUCATIONAL  
MEASUREMENT [S]**

Tuesday  
April 4  
12:30-2:00 p.m.  
Lincoln  
Room

Chairman:

Kenneth Brewer, *Florida State University*

Presenters:

Charles Lewis, *University of Illinois*  
Ronald Hambleton, *University of Massachusetts*  
Nancy Cole, *American College Testing Service*  
Richard Jaeger, *University of South Florida*  
Melvin Novick (O), *American College Testing Service*

[13]

**SESSION 8: MEASUREMENT OF COMPLEX COGNITIVE  
PROCESSES [P]**

Chairman:

LeRoy A. Olson, *Michigan State University*

Tuesday  
April 4  
12:30-2:00 p.m.  
Douglas  
Room

**Rationale and Developmental Data for the Purdue  
Elementary Problem-Solving Inventory**

[14]

Stuart M. Speedie, John C. Houtz, Susan Ringenbach,  
Andrea Lash and John F. Feldhusen, *Purdue University*

**The Construct and Concurrent Validation of the  
Taxonomy Processes of Synthesis and Evaluation**

John L. Wasik, *North Carolina State University*

[15]

**A Study of the Prediction of Transfer Ability Based  
on Short and Long Term Recall and Recognition  
of Science Principles**

[16]

Donald Reyes and Richard B. Smith,  
*Northern Illinois University*

Discussant:

John Follman, *University of South Florida*

**SESSION 9: ABILITY GROUPING: HELPFUL OR  
HARMFUL? [S]**

Tuesday  
April 4  
12:30-2:00 p.m.  
and  
2:15-3:45 p.m.  
Press  
Gallery

Chairman:

Warren G. Findley (O), *University of Georgia*

[17]

Presenters:

Miriam M. Bryan, *Educational Testing Service*

Walter R. Borg, *Utah State University*

James McPartland, *Johns Hopkins University*

Gordon Foster, *University of Miami*

Dominick Esposito, *Teachers College, Columbia*

Roger T. Lennon, *Harcourt Brace Jovanovich,*

*Inc.*

Discussants:

Paul I. Clifford, *American Management Psychologists, Inc.*

**SESSION 10: ENVIRONMENTAL INFLUENCES AND THEIR EFFECT ON LEARNING [P]**

Tuesday  
April 4  
2:15-3:45 p.m.  
Lincoln  
Room

Chairman:

Annie W. Ward, *University of South Florida*

**QUESTA: An Instrument Designed to Assess the Environments of High Schools** [18]

Leonard L. Baird, *Educational Testing Service*

**Development of an Observational Procedure for Assessment of Parent-Child Interaction** [19]

Jo Lynn Cunningham and Robert P. Boger,  
*Michigan State University*

**The Relationship of Parent-Child Interaction and Intelligence Among Children From Large Families** [20]

Donald Lee Thompson, *University of Connecticut*

**The Evaluation of Evaluation Procedures** [21]

Marilyn Kourilsky and Eva Baker,  
*University of California at Los Angeles*

Discussant:

Joel Weiss, *Ontario Institute for Studies in Education*

**SESSION 11: THE DEVELOPMENT AND MANAGEMENT OF BANKS OF PERFORMANCE BASED TEST ITEMS [S]**

[22]

Tuesday  
April 4  
2:15-3:45 p.m.  
Douglas  
Room

Chairman:

Howard W. Stoker, *Florida State University*

Presenters:

Hazen A. Curtis (O), *Florida State University*  
Muriel M. Abbott, *Harcourt, Brace Jovanovich, Inc.*

Barrie Wellens, *Harcourt, Brace Jovanovich, Inc.*

Thomas Slocum, *University of Illinois College of Medicine*

John J. Marxer, *University of Illinois College of Medicine*

Discussants:

James C. Impara, *Florida State Department of Education*

William Furlong, *National Reading Center*

**SESSION 12: INTERNATIONAL INVITATIONAL SYMPOSIUM  
ON TESTING AND CROSS-NATIONAL STUDIES**

[S]

Chairman:

Christine H. McGuire, *University of Illinois,  
College of Medicine*

Tuesday  
April 4  
4:00-6:00 p.m.  
Douglas  
Room

Participants:

[23]

Australia, *Donald Hoghben*  
Brazil, *Hermen Garda Ludke*  
Dahomey, *Adjou Moumouni*  
Iran, *Bahman Joorabchi*  
Ireland, *Thomas Kellaghan*  
Poland, *Janusz Wasyluk*  
Scotland, *David A. Walker*  
Thailand, *Tongchan Hongladarom*  
Turkey, *Durmus Ali Ozcelik*  
Uganda, *Henry Matovu*  
International Educational Association in Stock-  
holm, *Torsten Husén*  
World Health Organization, Division of Edu-  
cation in Geneva, *Jean-Jacques Guilbert*

**SESSION 13: ANNUAL BREAKFAST AND PRESIDENTIAL  
ADDRESS**

Educational Measurement of Whom (or What), for  
Whom and Why?

Jack C. Merwin  
*University of Minnesota*

Wednesday  
April 5  
8:30-10:30 a.m.  
Lincoln-Douglas  
Rooms

**SESSION 14: ANNUAL BUSINESS MEETING**

Wednesday  
April 5  
10:45 a.m.-  
12:15 p.m.  
Press  
Gallery

## SESSION 15: TECHNIQUES FOR ITEM ANALYSIS [P]

Wednesday  
April 5  
12:30-2:00 p.m.  
Lincoln  
Room

Chairman:

W. G. Warrington, *Michigan State University*

**An Empirical Investigation of Four Correlational Indices of Item Discrimination** [24]

Carol E. Wildemann and Richard C. Cox,  
*University of Pittsburgh*

**Quantification of Item Precision in Criterion-Referenced Testing** [25]

Joanne G. Kania and Darrel L. Sabers,  
*Marquette University*

**Item Analysis for Criterion-Referenced Tests** [26]

Julie S. Vargas, *West Virginia University*

Discussant:

Susan Gross, *De Paul University*

## SESSION 16: STUDIES OF THE DISADVANTAGED [P]

Wednesday  
April 5  
12:30-2:00 p.m.  
Press  
Gallery

Chairman:

Muriel M. Abbott, *Harcourt Brace Jovanovich, Inc.*

**Analysis of Error Patterns on the Basic Concept Inventory for Head Start and Middle-Class Children** [27]

Jean L. Dyer, *University of Louisville*

**The Relationship of Socio-Economic Class and Ethnicity to Verbal Intelligence, Vocabulary and Reading Scores of Seventh Graders** [28]

Frank E. Boxwill, Sr., *Amityville Public Schools*

**A Comparison of Problem-Solving Abilities of Disadvantaged and Advantaged White, Black and Spanish-American Elementary School Children** [29]

John C. Houtz, Stuart M. Speedie, Susan Ringenbach, Andrea Lash, and John F. Feldhusen, *Purdue University*

**An Evaluative Study of Instructional Strategies and Pupil Cognitive Learning in an English as a Second Language Program of a Spanish-English Bilingual Education Project** [30]

A. R. Ramirez, *Bilingual Education Project, Region One Education Service Center*

Paul G. Liberty, Jr., *Measurement and Evaluation Center, University of Texas at Austin*

Discussant:

Carolyn Stern, *University of California, Los Angeles*

**SESSION 17: AN ALTERNATIVE TO A STANDARDIZED  
STANDARDIZED TESTING PROGRAM [S]**

(NCME-AERA Joint Symposium)

Wednesday  
April 5  
12:30-2:00 p.m.  
and  
2:15-3:45 p.m.  
Room J

Chairman:

Walter M. Mathews (O), *University of Mississippi*

[31]

Participants:

T. Anne Cleary, *College Entrance Examination Board*

Myron Seeman, *Madison, Wisconsin Public Schools*

Aileen Nettleton, *Madison, Wisconsin Public Schools*

Peter Christiansen, *Madison, Wisconsin Public Schools*

Lee H. Hansen, *Madison, Wisconsin Public Schools*

Carmelo V. Sapone, *Madison, Wisconsin Public Schools*

**SESSION 18: TESTING PROFESSIONALS: ART, SKILL,  
KNOWLEDGE [S]**

Wednesday  
April 5  
2:15-3:45 p.m.  
Lincoln  
Room

Chairman:

Virginia Zachert (O), *Medical College of Georgia*

[32]

Presenters:

Preston Lea Wilds, *Medical College of Georgia*

Adeline Z. Barber, *University of Georgia*

Leland Brokaw, *USAF Human Resources Laboratory, Lackland Air Force Base*

Discussant:

Christine McGuire, *University of Illinois College of Medicine*

**SESSION 19: DEVELOPMENT OF ATTITUDE MEASURES  
FOR SPECIAL PURPOSES [P]**

Wednesday  
April 5  
2:15-3:45 p.m.  
Press  
Gallery

Chairman:

Anthony J. Nitko, *University of Pittsburgh*

**Problems in Measuring Racial Attitudes: An experimental Approach** [33]

William E. Sedlacek, Glenwood C. Brooks, Jr. and  
Ernest A. Chaples, *University of Maryland*

**Development of an Instrument to Assess Attitudes of High School Students in Compensatory Programs** [34]

Marian T. Kilbane, *Cleveland Public Schools*

**Dental Auxiliary Image Test** [35]

David W. Chambers, *University of the Pacific, School of Dentistry*

Discussant:

David A. Frisbie, *Wichita State University*

**SESSION 20: SHOWCASE: SIMULATION AS A TESTING  
TECHNIQUE**

Wednesday  
April 5  
4:00-6:00 p.m.  
Douglas  
Room

Chairman:

William R. Crawford, *University of Illinois College of Medicine*

Presenting Institution:

Center for Educational Development, *University of Illinois, College of Medicine*

**SESSION 21: RESEARCH FINDINGS AND MODELS USEFUL TO PRACTITIONERS AND OTHER DECISION-MAKERS [P]**

- Thursday  
April 6  
8:30-10:30 a.m.  
Douglas  
Room
- Chairman:  
Hulda Grobman, *New York University*
- Alternatives to Study Hall: A Case Study in Context and Input Evaluation** [37]  
David C. Rand, Stuart M. Speedie and John F. Feldhusen, *Purdue University*
- Formative Evaluation of Lectures: An Application of Stake's Evaluation Framework** [38]  
Walter W. Westphal, *Kiel University*  
Philip G. Bashook, *University of Illinois College of Medicine*  
Walter B. Boldt, *University of British Columbia*
- A System to Evaluate Student Performance and Provide Knowledge of Responses** [39]  
J. Christopher Reid, D. Dax Taylor, Donald H. George, and John Meyer, *University of Missouri-Columbia*
- On Textbook Adoption: Or "Research . . . It Will Be Good For You!"** [40]  
Alice E. Klein, *University of Missouri-St. Louis*
- A Description and Evaluation of a Design Selection Guide** [41]  
Norman P. Uhl, *North Carolina Central University*
- Discussant:  
Richard B. Smith, *Northern Illinois University*

**SESSION 22: EVALUATION OF PERFORMANCE CONTRACTING: EMPIRICAL FINDINGS AND OBSERVATIONS [S]**

(NCME-AERA Joint Symposium)

- Thursday  
April 6  
9:00-10:30 a.m.  
Chicago  
Room
- Chairman:  
Milton D. Jacobson (O), *Univesrity of Virginia*
- Participants: [42]  
Horace W. Ray, *Batelle Memorial Institute*  
Robert V. Turner, *Office of Superintendent of Public Instruction of Virginia*  
Paul Bell, *Director of Instruction of Dade County, Florida*  
Brian Fiedler, *Alpha Learning Systems*  
Charles A. Woodbury, *University of Virginia*  
Charles L. Blaschke, *Education Turnkey Systems*

## SESSION 23: THE EVALUATION OF CREATIVITY [P]

Thursday  
April 6  
9-10:30 a.m.  
Press  
Gallery

- Chairman:  
Frank H. Fox, *University of Southern California*
- Formative Evaluation In Art Education** [43]  
Roger O. Scott, *Southwest Regional Laboratory*
- Four Studies of the Elementary Teacher and Student Creativity** [44]  
Thomas J. Rookey, *Pennsylvania Department of Education*
- Effects of Verbal and Pictorial Mediation on Performance and Convergent-Discriminant Validity of a Divergent Thinking Test** [45]  
Sandra K. Hobson, John F. Feldhusen, and Donald J. Treffinger, *Purdue University*
- Discussant:  
Albert H. Rouse, *Cincinnati Public Schools*

## SESSION 24: COMPUTER ANALYSIS OF STUDENT WRITING: PROGRESS IN STYLE AND CONTENT [S]

(NCME-AERA Joint Symposium)

Thursday  
April 6  
10:45 a.m.-  
12:15 p.m.  
Chicago  
Room

- Chairman:  
Ellis B. Page (O), *University of Connecticut* [46]
- Presenters:  
Henry B. Slotnick, *National Assessment of Educational Progress*  
Thomas R. Knapp, *University of Rochester*  
Peter I. Tillett, *South Australian School System and University of Connecticut*
- Discussant:  
William E. Coffman, *University of Iowa*

## SESSION 25: APPLICATION OF THE NATIONAL ASSESSMENT MODEL TO STATE ASSESSMENTS [S]

Thursday  
April 6  
10:45 a.m.-  
12:15 p.m.  
Douglas  
Room

- Chairman:  
Carmen J. Finley (O), *American Institutes for Research* [47]
- Presenters:  
David C. Lidstrom, *Iowa Department of Public Instruction*  
James F. Baker, *Massachusetts State Department of Education*
- Discussants:  
J. Stanley Ahmann, *National Assessment of Educational Progress*  
Irvin J. Lehmann, *Michigan State University*

**SESSION 26: OCCUPATIONAL PERCEPTION AND  
CAREER CHOICE [P]**

Thursday  
April 6  
10:45 a.m.-  
12:15 p.m.  
Press  
Gallery

Chairman:

John A. Centra, *Educational Testing Service*

**The Development of a Short Scale to Measure Per-  
ception of Occupational Prestige**

[48]

Donald L. Thompson, *University of Connecticut*  
M. S. Tseng, *West Virginia University*

**Development of a Career Interest Inventory**

[49]

Hollie B. Thomas and Susan B. Thomas,  
*University of Illinois*

**A Comparative Study of Personality and Vocational  
Interests of Disadvantaged and Advantaged Youths**

[50]

Anthony T. Soares and Louise M. Soares,  
*University of Bridgeport*

**Predictors of Postgraduate Career Group Choice**

Everard Nicholson, *Brown University*

Discussant:

[51]

Richard J. Nichols, *Newark State College*

**SESSION 27: APPLICATIONS OF ITEM SAMPLING  
TECHNIQUES [P]**

Thursday  
April 6  
12:30-2:00 p.m.  
Douglas  
Room

Chairman:

George P. Hollenbeck, *The Psychological Cor-  
poration*

**An Empirical Application of the Item Sampling  
Technique to Questionnaire Data**

[52]

Nancy W. Burton and Rory Remer, *University of  
Colorado*

**An Inquiry Concerning the Use of Item Sampling  
as a Method to Reduce Testing Time in an Evalua-  
tion Study**

[53]

William E. Loadman, *Indiana University*

**Multiple-Matrix Sampling in the Evaluation of a  
Music Program**

[54]

Richard M. Piper, *Southwest Regional Laboratory*

Discussant:

Thomas R. Owens, *Center for Planning and  
Evaluation, San Jose*

## SESSION 28: CORRELATES OF ACHIEVEMENT [P]

Thursday  
April 6  
12:30-2:00 p.m.  
Press  
Gallery

Chairman:

F. J. King, *Florida State University*

**Academic Risk-Taking in Relation to Sex and Intelligence Among Fifth Graders** [55]

Irene S. Strum, *N.Y.C. Board of Education*

Joseph Justman, *Fordham University*

**Structure-of-Intellect Factor Abilities Relative to Performance in High School Modern Algebra** [56]

Keith A. Holly, *Durate Unified School District*

William B. Michael, *University of Southern California*

**Psychometric Analysis of Creativity, Critical Thinking, Scholastic Aptitude, and Scholastic Achievement Tests** [57]

John Follman and George Kincaid,  
*University of South Florida*

Wayne Malone and Richard Coop,  
*Pasco Comprehensive High School*

Discussants:

John S. Helmick, *Educational Testing Service*

Ross E. Traub, *Ontario Institute for Studies in Education*

## SESSION 29: DEVELOPMENT OF NEW MEASURES OF COGNITIVE ABILITIES FOR ETHNICALLY AND SOCIOECONOMICALLY DISADVANTAGED CHILDREN [S]

Thursday  
April 6  
2:15-3:45 p.m.  
Douglas  
Room

Chairman:

Ernest D. McDaniel, *Purdue University*

Presenters:

John F. Feldhusen (O), *Purdue University* [58]

Grayson H. Wheatley, *Purdue University*

Gerald F. Gruen, *Purdue University*

John O. Towler, *Purdue University*

Discussants:

Charles Smock, *University of Georgia*

David Weickart, *High Scope Research Foundation*

**SESSION 30: FACTORS INFLUENCING TEST RELIABILITY  
AND VALIDITY [P]**



- Chairman:  
Charles G. Eberly, *Michigan State University*
- The Effect of Selected Poor Item-Writing Practices  
on Test Difficulty, Reliability and Validity** [59]  
Cynthia Board and Douglas R. Whitney, *University of  
Iowa*
- Large-Scale Essay Testing** [60]  
Ramon Veal and Robert Rentz, *University of Georgia*
- An Index of the Quality of Multiple-Choice Items  
Designed to Measure Comprehension of Reading  
Passages** [61]  
Fred Pycszak, Jr., *California State College*
- Aspects of a Methodology for Creating Criterion-  
Referenced Tests** [62]  
Glenn E. Roudabush and Donald Ross Green,  
*CTB/McGraw-Hill*
- Discussant:  
John R. Hills, *Florida State University*

Thursday  
April 6  
2:15-3:45 p.m.  
Press  
Gallery

**SESSION 31: GRADING PRACTICES [P]**



- Chairman:  
Paul B. Campbell, *Educational Testing Service*
- Attitudes and Beliefs Related to the Pass-Fail Op-  
tion** [63]  
Jon C. Marshall and Carol M. Stock, *University of  
Missouri—St. Louis*
- Salience of Concepts and Commitment to Extreme  
Judgments in the Response Patterns of Teachers** [64]  
Patricia B. Elmore and Donald L. Beggs, *Southern  
Illinois University*
- Validation of a Measure of Teacher Attitudes To-  
ward Grading Practices** [65]  
James S. Terwilliger, Douglas Cooper and Ralph G.  
Straton, *University of Minnesota*
- The Attitude of Teacher Groups to Grading Prac-  
tices** [66]  
Douglas Cooper and James S. Terwilliger, *University  
of Minnesota*
- Discussant:  
Richard C. Cox, *University of Pittsburgh*

Thursday  
April 6  
2:15-3:45 p.m.  
Lincoln  
Room

SESSION 32: COURSE AND INSTRUCTOR EVALUATION [S]

Thursday  
April 6  
4:00-6:00 p.m.  
Douglas  
Room

Chairman:

Lawrence M. Aleamoni (O), *University of Illinois* [67]

Presenters:

Kenneth E. Eble, *University of Utah*  
Gerald M. Gilmore, *University of Illinois*  
Leroy A. Olson, *Michigan State University*  
Bruce Finney, *Princeton University*  
Thomas A. Tyler, *Southern Illinois University*

Discussant:

Barak Rosenshine, *University of Illinois*



SESSION 33: TECHNICAL COMPONENTS OF ITEM-WRITING [P]

Thursday  
April 6  
4:00-5:30 p.m.  
Press  
Gallery

Chairman:

Edwin C. Shirkey, *University of Illinois*

**Matched Pair True-False Scoring: An Investigation of its Reliability for an Achievement Test** [68]

Dale Brandenburg, *University of Iowa*

**Additional Data on the Feasibility of Using More False than True Test Items** [69]

Edward Lederman, *Eastern Michigan University*

**An Investigation of the Cognitive Correlates of Test-Wiseness** [70]

James Diamond and William Evans, *University of Pennsylvania*

**A Description of Fifteen Test Statistics Based Upon Optically Scanned Instructor Made Multiple-Choice Tests** [71]

S. L. Planisek and R. J. Planisek, *Kent State University*

Discussant:

A. Hieronymous, *University of Iowa*

SESSION 34: STATISTICAL TOPICS [P]

Chairman.

Linda Crocker, *University of Florida*

Thursday  
April 6  
4:00-5:30 p.m.  
Lincoln  
Room

**A Multivariate Approach to the Analysis of Effects  
of Multiple Variables on Performance of Kinder-  
garten Children**

[72]

Ofelia Halasa, *Cleveland Public Schools*

**Determining the Sociometric Constitution Within a  
Large Data Base**

[73]

Phyllis R. Sweet, *Boston College*

Nathan Gold, *Polaroid Corporation*

**Psi Coefficient: A New Nonparametric Correlation  
Statistic**

[74]

Richard E. Stafford, *SUNY at Oneonta*

Discussant:

Harry E. Anderson, Jr., *University of Georgia*

## GRADUATE STUDENT GUESTS

### University of Chicago

Lorin Anderson	John Eggert	Durmus Ali Ozelcik
David Andrich	Michael Katims	Ann Peterson
Aurora Benasso	Edward Kifer	Rona Ruben
Eduardo Cabezon	Gloria Malone	Joseph Ryan
Richard Carter	Sandy Maw	Spencer Swinton
Penny Edgert	Ronald Mead	Michael Waller

### University of Colorado

Beverly Anderson	Larry Nelson	Victor Willson
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### Florida State University

John Convey	Philip Doughty	G. Michael Kuhn
Robert Cruise	Bibiana T. Golfin	Jon Prothero
		Herb Rebhun

### University of Georgia

Gregory Litaker

### University of Illinois

Diane Essex	Martyn Hotvedt	Nick Smith
Craig Gjerde	Heather Sharman	

### Indiana University

David Davidson	Mike Lynch	Bhag Want Singh
Bill Fraser	George Mendenhall	Bob Thompson
Marie Josberger	Elizabeth Schmidt	

### Loyola University

Carole Bauer	Donald Cunningham	Ray McNamee
Mary Brooke	James Graham	Allen Shub
Rocco Caponigri	Ruth Hunt	Merlyn Swanson
Robert Cienkus	Gerald Majka	Lawrence Zaiden
Janet Cole	Madge Moody	

### University of Maryland

Sylvia Auton	Joanne Greer	Dennis Leitner
Fay Dworkin	Basil Hamilton	

### Michigan State University

Paula Knepper	Bonnie Steller	Richard Stiggins
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**University of Minnesota**

Teara Archwamety  
Douglas Cooper  
Kustubh Lele

Kin Lun  
R. Reineke

R. Sandman  
Pat Wilson

**Ontario Institute for Studies in Education**

C. W. Fisher

Wayne H. Tymm

**University of Pittsburgh**

Marty Carlson  
John Drugo

Richard Fellers  
Jan Lee

Carol Wildemann

**Purdue University**

Wayne Brunner  
John Houtz  
Richard Kay  
William Kryspin

Barbara Lewis  
Charles Moon  
David Rand  
Susan Ringenbach

Stuart Speedie  
Douglas Stanwyck  
Mahamad Touq  
Edward Vockell

**PARTICIPANTS IN 1972 PROGRAM**  
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