

# NOVEMBER



# SAN FRANCISCO

ANNUAL MEETING PROGRAM

APRIL 19-21, 1995

**NATIONAL COUNCIL ON  
MEASUREMENT IN EDUCATION**

**1995  
ANNUAL MEETING  
PROGRAM**

**San Francisco Hilton & Towers  
Hotel Nikko  
San Francisco Parc 55  
San Francisco, California  
April 19 - 21, 1995**

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\* The co-chairs would like to acknowledge Sheila Pearson of ETS for her production of the 1995 program.

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## FUTURE NCME MEETINGS

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1996	New York	April 9 - 11
1997	Chicago	March 26 - 28
1998	San Diego	April 15 - 17
1999	Boston	April 6 - 8

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## PROPOSAL REVIEWERS

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Nancy Schoeps  
Mary K. Schratz  
Randall Schumacher  
Richard Schwarz  
W. Michael Shaffer  
Karen Sheingold  
Bethany Shifflett  
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J. Spray  
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Brian Stecher  
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Kevin P. Sweeney  
Richard Tate  
Aster Tessema  
Susan Thomas  
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Michelle M. Vanchu  
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Xiaoping Wang  
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Walter D. Way  
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Victor Willson  
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John W. Young  
Michael J. Ziecky  
Gloria Zyskowski

The primary purpose of the Annual Meeting is to enable technical, theoretical, and practical development in measurement to be presented and not the promotion of the sale (at a profit) of documents, services, products, or materials.

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## NCME TRAINING SESSIONS

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Admission to training sessions is limited to ticket holders. Tickets may be obtained by writing to Training/NCME, 1230 17th Street, NW, Washington, DC 20036-3078. **Please enclose payment and a self-addressed stamped envelope.** Courses are subject to cancellation for insufficient registration. The deadline for ordering tickets was **March 8, 1995**. Any remaining available tickets will be sold on a first come, first served basis at the registration area in the Hilton Hotel.

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Course A, Monday April 17, 1:00 - 5:00  
and Tuesday, April 18, 8:00 - 11:30

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FEE: \$70

**FUNDAMENTALS OF ASSESSING STUDENT AFFECT (Co-sponsored with AERA)**

**Presenter:**

W. James Popham, University of California, Los Angeles and IOX Assessment Associates

The dominant objective of the proposed training session will be to provide attendees with the *knowledge* and *skills* needed to engage in sufficiently accurate assessment of affect so that valid inference can be drawn regarding the affective status of groups of students (not individual students). The knowledge and skills that will serve as the focus of the session will deal with the practicalities of affective assessment such as the kinds of self-report devices that could be employed, procedures for enhancing students' perceived anonymity, and so on. If the proposed training session is successful, attendees will leave at its conclusion in possession of practical procedures to follow in assessing student affect at the classroom, school, district, or state level.

In addition to the proposed session's cognitive objectives, appropriately enough, there will be a pair of affective objectives sought. First, it is intended for attendees to increase their *confidence* in being able to carry out the assessment of student affect. Second, because of the increase of attendees' knowledge, skills, and confidence, it is believed they will possess an increased *disposition* to actually carry out affective assessment as part of their professional responsibilities.

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Course AA, Tuesday, April 18, 1995, 8:00 - 11:45

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FEE: \$40

**COMPUTERIZED ADAPTIVE TESTING - ISSUES AND APPLICATIONS**

**Presenters:**

Cynthia G. Parshall and Timothy C. Davey, ACT

This session will cover a range of technical and applied issues which must be considered when a computerized testing program is established. Major topics presented during the session will include: (a) the various kinds of computer adaptive tests; (b) the psychometric issues that are critical to successful implementation of computer adaptive testing; and (c) the effects on the examinee of taking a computer adaptive test. A working prototype of an adaptive test will also be presented as an example of the type of product that can be developed using the ideas discussed in this training session.

## GENERALIZABILITY THEORY AND APPLICATIONS

### Presenters:

Robert L. Brennan, University of Iowa, and Xiaohong Gao, ACT

The primary goals of this training session are to enable participants to understand the basic principles of generalizability theory, to conduct relatively straightforward generalizability analyses, and to interpret and use the results of such analyses. Mathematical and statistical foundations will be treated only minimally. Major emphasis will be placed upon quickly enabling participants to conduct and interpret relatively straightforward generalizability analyses, then more complicated ones. Examples will include consideration of writing assessments and other types of performance assessments.

Prerequisites include knowledge equivalent to one course in educational measurement and familiarity with ANOVA at the level treated in introductory graduate courses in education and psychology. A monograph written by the director and entitled *Elements of Generalizability Theory* will be distributed to participants and used as a principle reference in the training session. This monograph is coordinated with a computer program called GENOVA for performing generalizability analyses.

## SURFING THE INTERNET: HANGING TEN FOR MEASUREMENT RESEARCH

### Presenters:

Mark D. Shermis, Indiana University-Purdue University at Indianapolis, Paul M. Stemmer, Madonna University, Carl F. Berger, University of Michigan, and G. Ernest Anderson, University of Massachusetts

This workshop is directed towards measurement experts who are interested in exploring how the InterNet can facilitate their research, scholarly, and professional activities. It is assumed that the individuals know how to run one operating system (i.e., DOS, Windows, MacOS, Unix) and are familiar with the general functions of a microcomputer. No background in telecommunications or using the InterNet is assumed. Participants may derive some benefit from having their own computer account, though accounts will be provided for those who need them.

**INTRODUCTION TO COMPUTERIZED TEST ASSEMBLY**

**Presenter:**

Wim J. van der Linden, University of Twente

The objectives of the training session are:

1. To refresh the basic concepts and principles of classical and IRT-based test assembly;
2. To present an overview of test assembly problems as they occur in practical settings;
3. To teach the participants to formulate a test assembly problem as a problem of constrained optimization;
4. To familiarize the participants with the use of algorithms and heuristics to solve such constrained optimization problems;
5. To demonstrate the use of software for computerized test assembly;
6. To offer participants the possibility to formulate their own test assembly problems and solve them via the use of software.

**PRACTICAL ISSUES IN EQUATING/SCALING MULTIPLE-CHOICE AND PERFORMANCE ASSESSMENTS**

**Presenter:**

Deborah J. Harris, ACT

The objective of the session is to familiarize the participants with practical issues that arise in equating multiple choice and performance assessments in an operational/real data setting, and with methods of addressing those issues. Specifically, following the training session, participants should: (1) be aware of what equating is, when equating is appropriate (over, say, Mislevy's social moderation), (2) be aware of the pros and cons of different data collection designs, (3) be aware of how to evaluate an equating, (4) be aware of sample and instrument characteristics, how they impact equating, and how multiple choice and performance assessments differ in terms of equating issues, (5) be aware of general issues that may arise during an equating and what, if any, action can or should be taken.

**ITEM RESPONSE THEORY: THEORY AND PRACTICE**

**Presenters:**

Hari Swaminathan, University of Massachusetts and H. Jane Rogers, Columbia University

The purpose of this training session is to provide graduate students, researchers, test developers, and measurement specialists with an introduction to the principles and assumptions underlying item response theory (IRT), and through specific applications, show how IRT can be used to solve measurement problems that arise in the areas of test development, assessment of examinee proficiency levels, assessment of bias, and equating. This session is intended to provide participants with a basic understanding of IRT sufficient to enable them to (1) understand how IRT is applied, (2) read and understand literature in this area, and (3) become aware of new developments in the field and areas in need of further research.

**THE PRACTICAL MANNER OF SETTING TEST STANDARDS**

**Presenters:**

Gerard F. Dillon, Carol A. Morrison, and Lynn C. Webb, National Board of Medical Examiners

This session will allow participants to become aware of some of the common problems associated with doing standard setting and to become familiar with some of the approaches and tools that may be helpful in their own testing context. The session will explore the myths and realities of trying to conduct content-based standard setting activities in an operational setting. Such settings typically bring with them a number of practical limitations which many practitioners encounter. Also, the uncertainties and difficulties that are associated with the standard setting judgement process often produce questions and problems that are consistent across testing contexts. Staff will identify some of the typical constraints and problems associated with the "practice" of standard setting and identify reasonable responses and useful tools for handling such occurrences.

**MULTIPLE-CHOICE EXAMINATIONS: VALIDITY EVIDENCE THROUGH SYSTEMATIC TEST DEVELOPMENT**

**Presenters:**

Steven M. Downing, American Board of Internal Medicine and Thomas Haladyna, Arizona State University West

This workshop will:

1. Introduce participants to a systematic approach to test and item development.
  2. Describe methods to document validity evidence for specific test uses and test score interpretations.
  3. Provide written materials to guide participants' test development work.
  4. Summarize the current research related to validity evidence and its relationship to systematic test development.
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**NCME PRESENTATION SESSIONS**

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**TUESDAY APRIL 18, 1995**

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**Tuesday, 2:15 - 3:45**

**Parc 55, Barcelona II, 3rd Floor**

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**A1 AUTHENTICASSESSMENT: PARADOXES, PROBLEMS, AND POSSIBILITIES**  
(Symposium, Sponsor: AERA Division K, Division H, Division B; NCME)

**Organizer/Moderator:** Ann Lieberman, Teachers College, Columbia University

**Presenters:**

David Bensman, Rutgers University; Kathe Jervis, Teachers College, Columbia University; Linda Nathan, Fernway Middle College High School, MA

**Discussants:**

Joseph Featherstone, Michigan State University; Herb Kohl, Coastal Ridge Research and Education Center

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**Tuesday, 4:00 - 7:00**

**Hilton, Parlor 3, Ballroom Level**

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**AA1**

**NCME BOARD OF DIRECTORS MEETING**

Members are invited to attend as observers.

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Wednesday, 8:15 - 10:15

Hilton: Union Square 11, 4th floor

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**B1 INDIVIDUAL AND SUBGROUP DIFFERENCES**

(Paper Presentation)

**Moderator:** Kathy Green, University of Denver

**Presenters:**

*Gender, Ethnic and Second Language Performance on the New Verbal and Math Content of the PSAT/NMSQT*

Alicia P. Schmitt, Educational Testing Service

*Gender Differences on the ACT Mathematics Tests: A Cross Culture Comparison*

Xiaoping Wang, The University of Iowa; James Maxey, The American College Testing Program

*Individual Differences in Performance on Items with Similar Content and Different Formats*

Eleanor E. Sanford, North Carolina Department of Public Instruction; Nada Ballator, Laura Kramer,

Jeff Morgan, North Carolina State University

*Differential Prediction/Impact in Course Placement for Gender and Ethnic Groups*

Julie P. Noble, Jill Crouse, Matt Schulz, American College Testing

*Does Extra Time Help? Preliminary Analyses from a Timing Study*

Douglas F. Becker, Gerald S. Golden, David B. Swanson, National Board of Medical Examiners

**Discussants:**

Jeffery K. Smith, Rutgers University; Herbert Rudman, Michigan State University

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Wednesday, 8:15 - 10:15

Hilton, Yosemite C, Ballroom Level

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**B2 TECHNICAL ISSUES IN LARGE SCALE PERFORMANCE ASSESSMENTS**

(Invited Symposia, Sponsors: NCME; AERA, Division D)

**Organizer:** Sharif Shakrani, National Center for Education Statistics

**Moderator:** Gary E. Phillips, National Center for Education Statistics

**Presenters:**

*Validity of Performance Assessments*

Samuel Messick, Educational Testing Service

*Generalizability of Performance Assessments*

Robert L. Brennan, University of Iowa

*Comparability*

Robert Linn, University of Colorado

*Setting Performance Standards for Performance Assessments*

Richard Jaeger, University of North Carolina

*Fairness and Bias in Performance Assessment*

Lloyd Bond, University of North Carolina at Greensboro

**Discussants:**

Peggy Carr, Sharif Shakrani, National Center for Education Statistics

**B3 DIFFERENTIAL ITEM FUNCTIONING**

(Paper Presentation)

**Moderator:** Lawrence Rudner, Eric/TM

**Presenters:**

*An Investigation of the Sampling Distributions of Measures of IRT Drift/DIF*

Steven P. Isham, John R. Donoghue, Educational Testing Service

*An Investigation of the Likelihood Ratio Test for Detection of Differential Item Functioning*

Allan S. Cohen, Seock-Ho Kim, James A. Wollack, University of Wisconsin-Madison

*Stability of DIF Classification: An Alternative Representation of the Sampling Variability of the Mantel-Haenszel DIF Statistic*

Rebecca Zwick, Dorothy T. Thayer, Educational Testing Service

*Differential Objective Function*

Mary M. Kino, Huixing Tang, David Swift, The Psychological Corporation

*Impact of Asian-American Language Background on Differential Item Functioning*

James D. Lehman, Educational Testing Service

**Discussants:**

Georgy Camilli, Rutgers University; George Macready, University of Maryland

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**C1 RESEARCH APPLICATIONS USING LINEAR MODELS**

(Paper Presentation)

**Moderator:** Jeremy Finn, State University of New York at Buffalo

**Presenters:**

*A Comparison of a Hierarchical Versus a Non-Hierarchical Logistic Regression Model in Establishing Predictive Validity*

Amy Elizabeth Schmidt, National League for Nursing Division of Assessment and Evaluation

*Further HLM Exploration on Between- and Within-School Effects Related to SAT Scores in Texas: Policy and Reporting Implications*

Linda L. Hargrove, Lynn T. Mellor, Michael X. Mao, Texas Education Agency

*The Detection and Impact of Outliers in Covariance Models*

Jeri Benson, Christine DiStefano, University of Georgia

*Regression Procedures for the Detection of Rater Effects in Direct Writing Assessment*

Marc W. Julian, Cynthia A. Searcy, University of Georgia

**Discussants:**

Michael Harwell, University of Pittsburgh; Joseph J. Stevens, University of New Mexico

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**C2 MEASURING THE NATIONAL GOALS: IMPLICATIONS FOR MINORITY STUDENTS**

(Invited Symposia)

**Organizer:** Minority Issues & Testing Committee, Sheila D. Thompson, Committee Chair,  
Howard University, CRESPAR

**Moderator:** Pascal D. Forgione, Jr., Superintendent of Public Instruction, State of Delaware

**Presenters:**

*Updates on the Work of the National Educational Goals*

Cynthia D. Prince, Associate Director for Analysis & Reporting, National Goals Panel

*The Testing Mania: Wreckage or Reform?*

Thelma L. Spencer, Educational Consultant

*Standards, Outcomes, and Diversity*

Bernice Anderson, Educational Testing Service

This is an Interactive Session. Following the presentations, participants will discuss questions in small groups and share results in the large group.

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**C3 EQUATING**

(Paper Presentation)

**Moderator:** Lawrence Wightman, Educational Testing Service

**Presenters:**

*A Comparison of Strategies for Equating Single Prompt Writing Assessments*

Gary Skaggs, West Mesa Associates; Robert W. Lissitz, University of Maryland

*Assessing the Effect of Multidimensionality on IRT True-Score Equating for Subgroups of Examinees*

Andre De Champlain, Law School Admission Council

*A Comparison of the Results from Two Equating Designs for Performance Based Student Assessments*

Heibatollah Baghi, Marshá DeLain, Patricia Bent, Delaware Department of Public Instruction; Sarah Hennings, Riverside Publishing Company

*Design Issues in the NAEP Trend Assessment*

Sheila Barron, RAND

**Discussants:**

Michael Kolen, American College Testing; Nancy Petersen, Educational Testing Service

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Wednesday, 10:35 - 12:05

Hilton, Parlor 6, Ballroom Level

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**C4 AUTHENTIC ASSESSMENT: THE TENSIONS BETWEEN TOP-DOWN AND BOTTOM-UP REFORM**

(Interactive Symposium, Sponsor: Division K, Division B, Division H, NCME)

**Organizer/Moderator:** Beverly Falk, Columbia University

**Presenters:**

Brenda Engel, Lesley College; Lynn Stuart, Cambridge (MA) Public Schools; Willa Spicer, South Brunswick (NJ) Public Schools; Jacqueline Jones, Educational Testing Service; Joanne Larson, New York EI

**Discussants:**

Linda Darling-Hammond, Ray Pecheone, Columbia University

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Wednesday, 12:25 - 1:55

Hilton, Union Square 11, 4th Floor

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**D1 PERSPECTIVES ON DIFFERENTIAL ITEM FUNCTIONING ANALYSIS IN THE CONTEXT OF MULTIDIMENSIONAL TEST DATA**

(Symposium)

**Organizer/Moderator:** Brian E. Clauser, National Board of Medical Examiners

**Presenters:**

*Logistic Regression DIF Analyses with Intentionally Multidimensional Tests*

Kathleen M. Mazor, Smith College; Brian Clauser, National Board of Medical Examiners

*Application of SIBTEST in Dealing with Issues of DIF in the Context of Multidimensional Data*

Ratna Nandakumar, University of Delaware

*Item Response Theory*

David M. Miller, Anne E. Seraphine, University of Florida

*Multidimensionality for Performance Assessment DIF Research*

Timothy R. Miller, American College Testing

**Discussants:**

William E. Stout, University of Illinois; Hariharan Swaminathan, University of Massachusetts-Amherst

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Wednesday, 12:25 - 1:55

Hilton, Yosemite C, Ballroom Level

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**D2 THE NEW SAT: REACTIONS AND RESEARCH IMPLICATIONS**

(Invited Symposia)

**Organizer/Moderator:** Wayne Camara, The College Board

**Presenters:**

*Lessons Learned: Implementing Change in the SAT*

Linda Cook, Educational Testing Service

*Two Heads Are Better Than One: Estimating Ability in the World of Computer-Based Testing*

Howard Everson, The College Board

*What Were the Reactions to Changes in the SAT?*

John Fremer, Educational Testing Service

**Discussants:**

Robert Linn, University of Colorado, CRESST; Cynthia B. Schmeiser, American College Testing

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Wednesday, 12:25 - 1:55

Hilton, Franciscan D, Ballroom Level

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**D3 PERFORMANCE ASSESSMENT IN THE BRAVE NEW WORLD OF CONTINUOUS QUALITY IMPROVEMENT: PROSPECTIVES FROM BUSINESS, CURRICULUM DEVELOPMENT AND TESTING**

(Invited Symposia)

**Organizer/Moderator:** H. Guy Glidden, Wichita Public Schools (NATD-President Elect)

**Presenters:**

Jonelle Adam, The Boeing Company; Bev Merritt, Gilbert Public Schools; Joe Hansen, Colorado Springs Public Schools

**Discussants:**

Linda Elman, Tacoma Public Schools; Darlene Patrick, Psychological Testing Corporation

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Wednesday, 2:15 - 3:45

Hilton, Union Square 11, 4th floor

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**E1 INTRODUCTION AND EVALUATION OF A FREE-RESPONSE MATH ITEM TYPE**  
(Symposium)

**Organizer/Moderator:** Alicia P. Schmitt, Educational Testing Service

**Presenters:**

*An Introduction of a New Free-Response Item Type*

Carol A. Jackson, James S. Braswell, Educational Testing Service

*DIF Data on Free-Response SAT I Mathematical Items*

Ida M. Lawrence, C. Felicia Lyu, Educational Testing Service

*Smoothed Standardization Assessment of Testlet Level DIF on a Math Free-Response Item Type*

C. Felicia Lyu, Neil J. Dorans, Educational Testing Service

**Discussants:**

Sylvia T. Johnson, Howard University; William F. Stout, University of Illinois

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Wednesday, 2:15 - 3:45

Hilton, Yosemite B, Ballroom Level

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**E2 PERFORMANCE ASSESSMENT: THE RHETORIC MEETS THE REALITY (AND BOTH ARE DOING JUST FINE THANK YOU)**

(Invited Symposia, Sponsors: NCME; AERA, Division K)

**Organizer/Moderator:** Neal Kingston, Kentucky Department of Education

**Presenters:**

*Internal Psychometric Characteristics of Kentucky Instructional Results Information System (KIRIS) Assessments*

Neal Kingston, Kentucky Department of Education

*Special Topics in Performance Events*

Sean Donovan, Kentucky Department of Education

*The Relationship Between Content Area and Assessment Method*

Jonathan Dings, Kentucky Department of Education

*Topics of Portfolio Assessment*

Brian Gong, Kentucky Department of Education

**Discussant:**

Ronald K. Hambleton, University of Massachusetts-Amherst

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**E3 TOWARDS COMPARABILITY OF WRITING ASSESSMENTS**

(Symposium)

**Organizer:** E. Matthew Schulz, American College Testing

**Moderator:** Catherine J. Welch, American College Testing

**Presenters:**

*Scaling and equating Issues in High Stakes Writing Assessment*

Deborah J. Harris, Catherine J. Welch, American College Testing

*Scaling Holistically Scored Writing Assessments for Rater Effects Using a Many-Facet Rasch Model*

Catherine J. Welch, Timothy R. Miller, American College Testing

*A Comparison of the Many-Facet Rasch Model and Generalizability Procedures for Person Measurement in Writing Assessment*

E. Matthew Schulz, American College Testing; John Michael Linacre, The University of Chicago

*Some Cautionary Observations on Reliability and Equating of Forms in High Stakes Performance Assessments*

Ronald Cope, American College Testing

**Discussants:**

Stephen Dunbar, University of Iowa; Benjamin D. Wright, University of Chicago

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**F1 STANDARD SETTING AND SCHOOL DISTRICT LEVEL TESTING**

(Paper Presentation)

**Moderator:** Barbara Helms, East Hartford School District

**Presenters:**

*Improving Communication About Preservice Teachers' Assessment Competence: Criterion-Referenced Report Cards?*

Lou M. Carey, Tary L. Wallace, James O. Carey, Robert F. Dedrick, University of South Florida; Susan N. Kushner, University of Akron

*Effects of Mode of Item Presentation on Standard Setting*

Jane Faggen, Gerald Melican, Don Powers, Educational Testing Service

*Some Technical Insights Into Response-Based Standard Setting for Dichotomous and Polytomous Data*

Richard M. Luecht, National Board of Medical Examiners

*Using A Responsive Model to Develop a School District Assessment Policy*

Mary E. Huba, Iowa State University; Nina Carran, Ames Community Schools

*School Comparisons in Large-Scale Assessments*

Bokheec Yoon, Michael James Young, CTB/McGraw-Hill

**Discussants:**

Sharon Johnson-Lewis, Detroit City Schools; Thanos Patelis, Stamford Public Schools

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**F2 SLEEPLESS IN WOODLAND HILLS: THE LEIGH BURSTEIN LEGACY**

(Symposium, Sponsor: AERA Division D, NCME)

**Organizer/Moderator:** Noreen Webb, University of California-Los Angeles

**Participants:**

Eva Baker, Lynn Winters, Bengt Muthén, Jeannie Oakes, Michael Seltzer, UCLA; Anthony Bryk, University of Chicago; Daniel Koretz, RAND Corporation; Lorraine McDonnell, UC-Santa Barbara; Gretchen Guiton, USC; William Schmidt, Michigan State University; David Wiley, Northwestern University.

**Discussant:** Richard Shavelson, Stanford University

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**F3 RESEARCH DIRECTIONS IN EDUCATIONAL MEASUREMENT: THE DISSERTATION AND BEYOND**

(Invited Symposia)

**Organizer:** NCME Graduate Student Issues Committee

**Moderator:** Wendy Yen, NCME President, CTB/McGraw-Hill

**Presenters:**

*Validity Issues*

Lorrie Shepard, University of Colorado-Boulder

*Test Fairness*

Lloyd Bond, University of North Carolina-Greensboro

*Cognitive Psychology*

Drew Gitomer, Educational Testing Service

*Computerized Adaptive Testing*

Barbara S. Plake, University of Nebraska-Lincoln

*Technical Issues in Performance Assessment*

Stephen B. Dunbar, University of Iowa

Immediately following the presentations a reception will be held from 5:30 to 7:00 p.m. The reception is sponsored by ACT, CTB/McGraw-Hill, ETS, the National Board of Medical Examiners, the Professional Examination Service, and The Psychological Corporation. A representative from each of these organizations will be available at the reception to discuss potential career opportunities with interested students. Both the session and the reception are open to all AERA and NCME members; graduate students are especially encouraged to attend to meet professionals in the field.

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Wednesday, 4:05 - 6:05

Hilton, Franciscan D, Ballroom Level

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**F4 EQUATING COMPUTER ADAPTIVE AND PAPER-AND-PENCIL TESTS:  
EXPERIENCES**

**AND LESSONS LEARNED**

(Symposium)

**Organizer:** Daniel R. Eignor, Educational Testing Service

**Moderator:** Laress L. Wise, Human Resources Research Organization

**Presenters:**

*Equating the Computerized Adaptive Edition of the Differential Aptitude Tests*

James R. McBride, Human Resources Research Organization

*Equating Computerized Adaptive Certification Examinations: The Board of Registry Series of Studies*

Mary E. Lunz, American Society of Clinical Pathologists; Betty Bergstrom, Computer Adaptive Technologies, Inc.

*Comparability Studies for the GRE General CAT and NCLEX Using CAT*

Daniel R. Eignor, Gary A. Schaeffer, Educational Testing Service

*Equating the CAT-ASVAB*

Daniel O. Segall, Navy Personnel R&D Center

*Equating the CAT-GATB*

Daniel O. Segall, Navy Personnel R&D Center; Gary Carter, United States Department of Labor

**Discussants:**

Michael J. Kolen, American College Testing; Ronald K. Hambleton, University of Massachusetts-Amherst

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Wednesday, 5:30 - 7:00

Hilton, Yosemite B, Ballroom Level

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**FF5**

**NO HOST COCKTAIL PARTY AND RECEPTION**

Members of NCME are invited to the annual No Host Cocktail Party and Reception which will be held in conjunction with the NCME Graduate Student Issues Committee reception.

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Thursday, 5:50 AM - 7:30 AM

Hilton: Inside Lobby

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**GG1 NCME FITNESS RUN/WALK**

(Run/Walk)

**Organizer:** Ronald A. Berk, Johns Hopkins University

Run or walk 5K/2.5K course on the Golden Gate Promenade in the Presidio (near the Golden Gate Bridge). **Meet in the Lobby (O'Farrell Street entrance) of the Hilton at 5:50 A.M.** Buses will leave promptly at 6:00 A.M. for the Presidio. The last bus will return to the Hilton by 7:30 A.M.

**PREREGISTRATION IF REQUIRED.**

This event is made possible through the sponsorship of: The Psychological Corporation, CTB/McGraw-Hill, Riverside Publishing Company, The National Board of Medical Examiners, and the Runner's World.

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Thursday, 8:00 - 10:15

Hilton, Imperial B, Ballroom Level

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**GG2 NCME ANNUAL BREAKFAST BUSINESS MEETING AND PRESIDENTIAL ADDRESS:**

*The Technical Quality of Performance Assessments*

Wendy Yen, CTB/McGraw Hill

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Thursday, 10:35 - 12:05

Hilton, Union Square 11, 4th floor

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**G1 EFFECTIVENESS OF KELLOGG GRANT PROFESSIONAL DEVELOPMENT RESOURCE MATERIALS FOR TEACHERS ON COMMUNICATIONS AND INTERPRETING ASSESSMENT RESULTS**

(Invited Symposia)

**Organizer/Moderator:** Edward D. Roeber, Council of Chief State School Officers

**Presenters:**

*Development of Kellogg Grant Project Professional Development Materials: History, Purpose, and Description*

Barbara S. Plake, University of Nebraska

*National Field Test of Communicating and Interpreting Assessment Results Professional Development Materials: Design, Implementation, and Results*

James C. Impara, University of Nebraska

**Discussants:**

William Schaffer, University of Maryland; Linda Bond, NCREL; Richard Stiggins, Assessment Training Center

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Thursday, 10:35 - 12:05

Hilton, Yosemite B, Ballroom Level

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**G2 DEVELOPING A NATIONALLY STANDARDIZED PERFORMANCE ASSESSMENT  
IN WRITING: EXPLORING THE "CREDIBLE QUESTIONS"**

(Symposium, Sponsor: AERA Division D, Division H, NCME)

**Organizer/Moderator:** Gayle B. Bray, University of Iowa

**Presenters:**

*The Research and Development Phase: Can a Performance Assessment be Cost Effective?*

H. D. Hoover, Gayle B. Bray, University of Iowa

*Empirical Approaches to Linking Scores From Different Assessment Instruments*

Stephen B. Dunbar, University of Iowa

*Issues in Constructing an Analytic Scoring Scale for a Writing Assessment*

Elizabeth A. Witt, University of Kansas

*Sex, Drugs, and Rock & Roll: Conflicts and Contradictions in Publishing Student Writing*

Melinda S. Tomsic, Stephanie D. Alnot, University of Iowa

**Discussants:**

Robert L. Linn, University of Colorado; Joan L. Herman, CRESST

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Thursday, 10:35 -12:05

Hilton, Yosemite C, Ballroom Level

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**G3 THE CONSTRUCT OF CONTENT VALIDITY: THEORIES AND APPLICATIONS**  
(Symposium)

**Organizer:** Stephen G. Sireci, GED Testing Service of the American Council on Education

**Moderator:** I. Leon Smith, Professional Examination Service

**Presenters:**

*Methodological Issues in Content Validation of Performance Assessments*

Linda M. Crocker, University of Florida

*The Central Role of Content Representation in Test Validity*

Stephen G. Sireci, GED Testing Service of the American Council on Education

*Evidence for Content Validity in Constructed-Response Test Items*

Steven J. Osterlind, University of Missouri-Columbia

*Is Content-Related Evidence of Validity Obtainable for "Soft" Criterion-Referenced Test Specifications*

W. James Popham, UCLA and IOX Associates

**Discussants:**

Kurt F. Geisinger, State University of New York at Oswego; Ronald K. Hambleton, University of Massachusetts-Amherst

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Thursday, 10:35 - 12:05

Hilton, Franciscan D, Ballroom Level

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**G4 ADAPTING TRADITIONAL MODELS OF STANDARD SETTING TO NEW MODELS OF ASSESSMENT**

(Symposium)

**Organizer:** Gerald E. DeMauro, New Jersey State Department of Education

**Moderator:** Eva R. Miller, New Jersey State Department of Education

**Presenters:**

*Standard Setting as Psychometric Due Process*

Gregory J. Cizek, University of Toledo

*Construct Validation of Minimum Competence*

Gerald E. DeMauro, New Jersey State Department of Education

*Standard Setting on Constructed-Response Items*

Melvin W. Webb, School District of Philadelphia

Eva R. Miller, New Jersey State Department of Education

*Policy Considerations in Setting Standards for Large, Diverse School Districts*

Melvin W. Webb, School District of Philadelphia

**Discussants:**

Jason Millman, Cornell University; Brenda Loyd, University of Virginia

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Thursday, 12:25 - 1:55

Hilton, Union Square 11, 4th floor

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**H1 LARGE-SCALE SCIENCE PERFORMANCE ASSESSMENT RESULTS: INFORMING TEST AND SCORE DEVELOPMENT**

(Symposium)

**Organizer:** Mario Yepes-Baraya, Educational Testing Service

**Moderator:** Brian Gong, Kentucky Department of Education and University of Louisville

**Presenters:**

*The 1993 NAEP Science Field Test: Hands-On Tasks and Test Specifications*

Christine O'Sullivan, Educational Testing Service

*Task Analysis of Science Performance Items: Identifying Relevant Attributes*

Mario Yepes-Baraya, Educational Testing Service

*An Analysis of Skills Associated with Large-Scale Science Performance Items*

Nancy L. Allen, Educational Testing Service

*Structure of Knowledge States for NAEP Science Tasks: An Application of the Rule Space Model*

Kukumi K. Tatsuoka, Educational Testing Service

**Discussant:**

Gail Baxter, University of Michigan

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Thursday, 12:25 - 1:55

Hilton, Yosemite C, Ballroom Level

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## H2 COMPUTER ADAPTIVE TESTING

(Paper Presentation)

**Moderator:** Sam Krug, Metritech Inc.

**Presenters:**

*The Influence of Examinee Test-Taking Motivation in Computerized Adaptive Testing*

JinGyu Kim, James E. McLean, The University of Alabama

*Assessing Speededness of Computer-Based Tests Using Item-Level Response Times*

Deborah L. Schnipke, The Johns Hopkins University

*Computerized Adaptive Testing in a Medical Licensure Setting: A Comparison of Outcomes Under the Rasch Model and the Two-Parameter Logistic Model*

Carol A. Morrison, Ronald J. Nungester, National Board of Medical Examiners

*Can Examinees Manipulate Their Ability Estimates in Self-Adapted Testing? A Simulation Study*

Thomas Rocklin, Walter Vispoel, Tianyou Wang, The University of Iowa

**Discussants:**

Mary Schratz, Performance Solutions; James R. McBride, HumRRO

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Thursday, 12:25 - 1:55

Hilton, Franciscan D, Ballroom Level

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## H3 MINORITY STUDENTS AND OPPORTUNITY TO LEARN STANDARDS: HOW CAN ASSESSMENT INFORM EQUITY ISSUES?

(Invited Symposia)

**Organizer:** Minority Issues & Testing Committee, Sheila D. Thompson, Committee Chair,  
Howard University, CRESPAR

**Moderator:** Sylvia T. Johnson, Howard University; Editor, Journal of Negro Education; CRESPAR

**Presenters:**

*Opportunity to Learn: Bridging the Gap Between Equity and Assessment in an Urban School District*

Warren Simmons, Senior Associate, Annie E. Casey Foundation

*Relationship of Instructional Experience and Student Performance; Good News*

Eva L. Baker, UCLA, CSE/CRESST

**Discussant:**

Sylvia T. Johnson, Howard University; Editor, Journal of Negro Education; CRESPAR

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Thursday, 2:15 - 3:45

Hilton, Union Square 11, 4th floor

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## II RELIABILITY (THEORY)

(Paper Presentation)

**Moderator:** Lisa Wolf, Felician College

**Presenters:**

*A Monte Carlo Comparison of Four Conditional Standard Errors of Measurement Estimation Methods*

William R. Insko, Jr., Texas Education Agency

*Estimating Reliability for Tests Composed of Item Sets*

Ida M. Lawrence, Educational Testing Service

*Does KR-20 Measure Internal Consistency? An Item Response Theory Perspective*

Yaowen Hsu, University of Illinois at Urbana-Champaign; Meichu Fan, American College Testing

*The Effects of Non-Normality and Number of Response Categories on Reliability*

Craig Enders, Deborah Bandalos, University of Nebraska-Lincoln

**Discussants:**

Nambury S. Raju, Georgia Institute of Technology; Ross Traub, Ontario Institute for Studies in Education

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## PROGRAM HIGHLIGHTS

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### NCME BOARD OF DIRECTORS MEETING

AA1 Tuesday, April 18, 1995, 4:00 - 7:00

Hilton, Parlor 3, Ballroom Level

OO4 Friday, April 21, 1995, 4:15 - 7:15

Executive Boardroom, Ballroom Level

Members are invited to attend as observers

### NO HOST COCKTAIL PARTY AND RECEPTION

FF5 Wednesday, April 19, 1995, 5:30 - 7:00

Hilton, Yosemite B, Ballroom Level

### NCME FITNESS RUN/WALK

GG1 Thursday, April 20, 1995, 5:50 AM - 7:30 AM

Hilton: Lobby (O'Farrell Street Entrance)

### NCME ANNUAL BREAKFAST BUSINESS MEETING AND PRESIDENTIAL ADDRESS

GG2 Thursday, April 20, 1995, 8:00 - 10:15

Hilton, Imperial B, Ballroom Level

#### *The Technical Quality of Performance Assessments*

Wendy Yen, CTB/McGraw-Hill

Wednesday, 8:15 - 10:15

Hilton, Yosemite C, Ballroom Level

### B2 TECHNICAL ISSUES IN LARGE SCALE PERFORMANCE ASSESSMENTS

(Invited Symposia)

**Organizer:** Sharif Shakrani, NCES

**Moderator:** Gary E. Phillips, NCES

**Presenters:** Samuel Messick, ETS; Robert L. Brennan, Univ. of Iowa; Robert Linn, Univ. of Colorado; Richard Jaeger, Univ. of North Carolina; Lloyd Bond, Univ. of North Carolina-Greenboro

**Discussants:** Peggy Carr, Sharif Shakrani, NCES

Wednesday, 10:35 - 12:05

Hilton, Yosemite C, Ballroom Level

### C2 MEASURING THE NATIONAL GOALS: IMPLICATIONS FOR MINORITY STUDENTS

(Invited Symposia)

**Organizer:** Minority Issues & Testing Committee, Sheila D. Thompson, Committee Chair, Howard University, CRESPAR

**Moderator:** Pascal D. Forgione, Jr., Superintendent of Public Instruction, State of Delaware

**Presenters:** Cynthia D. Prince, Associate Director for Analysis & Reporting, National Goals Panel; Thelma L. Spencer, Educational Consultant; Bernice Anderson, ETS

**N.B.** This is an Interactive Session. Following the Presentations, Participants will Discuss Questions in Small Groups and Share Results in the Large Group.

Wednesday, 12:25 - 1:55

Hilton, Yosemite C, Ballroom Level

### D2 THE NEW SAT: REACTIONS AND RESEARCH IMPLICATIONS

(Invited Symposia)

**Organizer/Moderator:** Wayne Camara, The College Board

**Presenters:** Linda Cook, ETS; Howard Everson, The College Board; John Fremer, ETS

**Discussants:** Robert Linn, Univ. of Colorado, CRESST; Cynthia B. Schmeiser, ACT

Wednesday, 12:25 - 1:55

Hilton, Franciscan D, Ballroom Level

### D3 PERFORMANCE ASSESSMENT IN THE BRAVE NEW WORLD OF CONTINUOUS QUALITY IMPROVEMENT: PROSPECTIVES FROM BUSINESS, CURRICULUM DEVELOPMENT AND TESTING

(Invited Symposia)

**Organizer/Moderator:** H. Guy Glidden, Wichita Public Schools (NATD-President Elect)

**Presenters:** Jonelle Adam, The Boeing Company; Bev Merritt, Gilbert Public Schools; Joe Hansen, Colorado Springs Public Schools

**Discussants:** Linda Elman, Tacoma Public Schools; Darlene Patrick, Psychological Testing Corporation

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## PROGRAM HIGHLIGHTS

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**Wednesday, 2:15 - 3:45**

**Hilton, Yosemite B, Ballroom Level**

**E2 PERFORMANCE ASSESSMENT: THE RHETORIC MEETS THE REALITY (AND BOTH ARE DOING JUST FINE THANK YOU)**

(Invited Symposia)

**Organizer/Moderator:** Neal Kingston, Kentucky Department of Education

**Presenters:** Neal Kingston, Sean Donovan, Jonathan Dings, Brian Gong, Kentucky Dept of Education

**Discussant:** Ronald Hambleton, University of Massachusetts-Amherst

**Wednesday, 4:05 - 6:05**

**Hilton, Yosemite B, Ballroom Level**

**F3 RESEARCH DIRECTIONS IN EDUCATIONAL MEASUREMENT: THE DISSERTATION AND BEYOND**

(Invited Symposia)

**Organizer:** NCME Graduate Student Issues Committee

**Moderator:** Wendy Yen, NCME President, CTB/McGraw-Hill

**Presenters:** Lorrie Shepard, Univ. of Colorado-Boulder; Lloyd Bond, Univ. of North Carolina-Greensboro; Drew Gitomer,ETS; Barbara S. Plake,Univ. of Nebraska-Lincoln; Stephen B. Dunbar, Univ. of Iowa

**Thursday, 10:35 - 12:05**

**Hilton, Union Square 11, 4th floor**

**G1 EFFECTIVENESS OF KELLOGG GRANT PROFESSIONAL DEVELOPMENT RESOURCE MATERIALS FOR TEACHERS ON COMMUNICATIONS AND INTERPRETING ASSESSMENT RESULTS**

(Invited Symposia)

**Organizer/Moderator:** Edward D. Roeber, Council of Chief State School Officers

**Presenters:** Barbara S. Plake, James C. Impara, University of Nebraska

**Discussants:** William Schaffer, Univ. of Maryland; Linda Bond, NCREL; Richard Stiggins, ATC

**Thursday, 12:25 - 1:55**

**Hilton, Franciscan D, Ballroom Level**

**H3 MINORITY STUDENTS AND OPPORTUNITY TO LEARN STANDARDS: HOW CAN ASSESSMENT INFORM EQUITY ISSUES?**

(Invited Symposia)

**Organizer:** Minority Issues & Testing Committee, Sheila D. Thompson, Committee Chair, Howard University, CRESPAR

**Moderator:** Sylvia T. Johnson, Howard University; Editor, Journal of Negro Education; CRESPAR

**Presenters:** Warren Simmons, Snr Assoc., Annie E. Casey Foundation; Eva L. Baker, UCLA, CSE/CRESST

**Discussant:** Sylvia D. Johnson, Howard University; Editor, Journal of Negro Education; CRESPAR

**Thursday, 2:15 - 3:45**

**Hilton, Yosemite C, Ballroom Level**

**I2 THE ABC'S OF SCHOOL TESTING: WHAT TEACHERS AND PARENTS WOULD LIKE TO KNOW**

(Invited Symposia)

**Organizer:** John J. Fremer, ETS

**Moderator:** Kurt F. Geisinger, SUNY-Oswego

**Presenters:** John J. Fremer, ETS; Edward D. Roeber, CCSSO; Janet Wall, Dept of Defense Testing Center

**Discussants:** Thomas J. Fitzgibbon, Techne Group; Ronald A. Berk, Johns Hopkins University

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## PROGRAM HIGHLIGHTS

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Thursday, 4:05 - 6:05

Hilton, Yosemite C, Ballroom Level

**J3 TECHNICAL ADVANCES IN PARTIAL CREDIT MODELS AND THEIR APPLICATIONS TO PERFORMANCE ASSESSMENTS**

(Invited Symposia)

**Organizer:** Huynh Huynh, University of South Carolina

**Moderator:** Heibatollah Baghi, Delaware Department of Public Instruction

**Presenters:** Anne R. Fitzpatrick, Valerie B. Link, George R. Burket, Wendy M. Yen, CTB/McGraw-Hill; Eiji Muraki, Hua-Hua Chang, ETS; Robert D. Ankenmann, Univ. of Iowa; Clement A. Stone, Suzanne Lane, Univ. of Pittsburgh; Huynh Huynh, Univ. of South Carolina; Hillary R. Michaels, Maryland Department of Education; Mark Wilson, Karen Draney, Univ. of California-Berkeley

**Discussants:** Steven Ferrara, Maryland Dept of Ed.; Michael Kolen, ACT; Brenda H. Loyd, UVA

Thursday, 4:05 - 6:05

Hilton, Franciscan D, Ballroom Level

**J4 TEST TAKERS RIGHTS**

(Invited Symposia)

**Organizer/Moderator:** William D. Schafer, University of Maryland

**Presenters:** Kurt Geisinger, SUNY-Oswego; Sharon Goldsmith, ASHA; John Fremer, ETS; Douglas K. Smith, Univ. of Wisconsin-River Falls; Kevin L. Moreland, Fordham Univ.

**Discussants:** Walter M. Haney, Boston College; Christa R. Winter, Lewis & Clark College

Friday, 10:35 - 12:05

Parc 55, Cervantes, 4th floor

**L2 MAKING THE IDEAL REAL: DISSEMINATION AND USE OF THE NCME CODE OF ETHICS**

(Invited Symposia)

**Organizer:** Cynthia B. Schmeiser, ACT

**Panelists:** Sue Rigney, Vermont Dept of Education; Peter Airasian, Boston College; Ernie Bauer, National Association of Testing Directors; Michael Kean, CTB/McGraw-Hill

**Committee:** Kurt Geisinger, SUNY-Oswego; Sharon Johnson-Lewis, Detroit Public Schools

Edward D. Roeber, CCSO; William D. Schafer, Univ. of Maryland; Cynthia B. Schmeiser, ACT

Friday, 12:25 - 1:55

Parc 55, Cervantes, 4th floor

**M2 TUNNELING FOR TREASURE: ESTABLISHING AN NCME INFORMATION SERVER**

(Invited Symposia)

**Organizer:** Mark D. Shermis, Indiana University Purdue University-Indianapolis

**Moderator:** Edward D. Roeber, Council of Chief State School Officers

**Presenters:** Mark D. Shermis, IUPUI; Paul M. Stemmer, Madonna Univ.; Nancy Shiffler, Ann Arbor Public Schools; Jeanne Pierce, L. Ruth Struyk, Gongshu Zhang, Northern Illinois University

**Discussants:** Edward D. Roeber, Council of Chief State School Officers

Friday, 12:25 - 1:55

Parc 55, Medici, 4th floor

**M3 METHODOLOGICAL APPROACHES AND ISSUES IN CROSS-CULTURAL PSYCHOMETRICS**

(Invited Symposia)

**Organizer/Moderator:** Jeri Benson, University of Georgia

**Presenters:** Norbert Tanzer, University of Graz, Austria; Dennis Hocevar, University of Southern California; Knut A. Hagtvet, University of Bergen, Norway; Mary Jo McGee-Brown, University of Georgia

**Discussant:** Anthony J. Nitko, University of Pittsburgh

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**PROGRAM HIGHLIGHTS**

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**Friday, 2:15 - 3:45**

**Parc 55, Cervantes, 4th floor**

**N3 THE COST OF PERFORMANCE ASSESSMENT IN SCIENCE: RESOURCE DEMANDS FOR TASK DEVELOPMENT, ADMINISTRATION AND SCORING**

(Invited Symposia)

**Organizer:** Brian M. Stecher, RAND Corporation

**Presenters:** Brian M. Stecher, RAND Corporation; Christine O'Sullivan, ETS; Allen Doolittle, ACT; Kathleen Comfort, California Department of Education

**Discussants:** Edward D. Roeber, Council of Chief State School Officers; Stephen Klein, RAND Corporation

**Friday, 4:05 - 6:05**

**Parc 55, Ballroom II, 4th floor**

**O1 LICENSURE AND CERTIFICATION: PROTECTING EXAMINEES, THE PUBLIC, AND DECISION MAKERS**

(Invited Symposia)

**Organizer:** Mark Raymond, American Registry of Radiologic Technologists

**Moderator:** Michael T. Kane, University of Wisconsin

**Presenters:** Mark Raymond, American Registry of Radiologic Technologists; David Swanson, NBME; F. Jay Breyer, ETS; John H. Norcini, ABIM; Benjamin Shimberg, ETS

**Discussant:** Michael T. Kane, University of Wisconsin

**12 THE ABC'S OF SCHOOL TESTING: WHAT TEACHERS AND PARENTS WOULD LIKE TO KNOW**

(Invited Symposia, Sponsors: NCME; AERA, Division K)

**Organizer:** John J. Fremer, Educational Testing Service

**Moderator:** Kurt F. Geisinger, State University of New York-Oswego

**Presenters:**

*What Parents Want to Know About School Testing:*

- *Why Test?*
- *What Kinds of Test Scores Are There?*
- *How Can You Select a Good Test?*

John J. Fremer, Educational Testing Service; Edward D. Roeber, Council of Chief State School Officers; Janet Wall, Department of Defense Testing Center

**Discussants:**

Thomas J. Fitzgibbon, Techne Group; Ronald A. Berk, Johns Hopkins University

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**13 TIMSS AND IMPROVING MATHEMATICS AND SCIENCE EDUCATION**  
(Symposium)

**Organizer:** Ina V. S. Mullis, Boston College

**Moderator:** Senta A. Raizen, The National Center for Improving Science Education

**Presenters:**

*Assessment Content*

Ina V. S. Mullis, Boston College

*Policy Issues*

Albert E. Beaton, Boston College

*Qualitative Studies*

Lois Peak, National Center for Education Statistics

*Systemic Reform*

Larry Suter, National Science Foundation

**Discussants:**

*Combining Multiple Assessment Approaches: A Reaction from the International Perspective*

Eugene Owen, National Center for Education Statistics

*Using International Data for National Reform: A Reaction from the Perspective of Mathematics Educators*

Mary Lindquist, Columbus College

**J1 APPLIED DIMENSIONALITY RESEARCH**

(Paper Presentation)

**Moderator:** Clinton Chase, Indiana University

**Presenters:**

*Multitrait-Multimethod Comparisons of a Writing Portfolio and the ITBS*

Joseph J. Stevens, Patricia Clauser, University of New Mexico

*Assessing the Dimensionality of Graduate Admission Achievement Tests*

Anna T. Kubiak, Kathleen O'Neill, Educational Testing Service

*Dimensionality of Multiple-Choice and Constructed-Response Tests for Different Ability Groups*

Kadriye Ercikan, Richard Schwarz, CTB/McGraw-Hill

*Factorial Invariance of a Language Placement Examination*

April J. Ginther, Educational Testing Service; Joseph J. Stevens, University of New Mexico

*Grade-Equivalent and IRT Metrics: An Account of Discrepancies in Growth and Variance Trends with Age.*

E. Matthew Schulz, W. Alan Nicewander, American College Testing

**Discussants:**

Ronald K. Hambleton, University of Massachusetts-Amherst; William Bart, University of Minnesota

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**J2 ADVANCES IN PROFESSIONAL ASSESSMENT: FROM ADAPTIVE TESTING TO AUTOMATED SCORING OF OPEN-ENDED MEASURES**

(Symposium)

**Organizer/Moderator:** Stephen Koffler, Educational Testing Service

**Presenters:**

*Setting the Context: the History of and Rationale for NCARB's Decision to Implement a Computer-Based Performance-Type Licensure Test*

Jeffrey F. Kenney, NCARB

*An Approach to Automated Scoring of Architectural Performance Tasks*

Henry Braun, Educational Testing Service

*Creating and Implementing a Research Agenda for the New Program*

Isaac Bejar, Brent Bridgeman, Phillip Oltman, Educational Testing Service

*Using a New Computerized Mastery Testing Model*

Charles Lewis, Robert L. Smith, Educational Testing Service

**Discussant:**

Michael T. Kane, University of Wisconsin

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**J3 TECHNICAL ADVANCES IN PARTIAL CREDIT MODELS AND THEIR APPLICATIONS TO PERFORMANCE ASSESSMENTS**

(Invited Symposia, Sponsors: NCME; AERA, Division D)

**Organizer:** Huynh Huynh, University of South Carolina

**Moderator:** Heibatollah Baghi, Delaware Department of Public Instruction

**Presenters:**

*Scaling Performance Assessments: A Comparison on One Parameter and Two Parameter Partial Credit Models*

Anne R. Fitzpatrick, Valerie B. Link, George R. Burket, Wendy M. Yen, CTB/McGraw-Hill

*Horizontal and Vertical Equating Methods Based on the Generalized Partial Credit Model*

Eiji Muraki, Hua-Hua Chang, Educational Testing Service

*Goodness of Fit and Ability Estimation in the Graded Response Model*

Robert D. Ankenmann, University of Iowa; Clement A. Stone, Suzanne Lane, University of Pittsburgh

*Statistical Procedures to Identify Clusters of Items with Local Dependency*

Huynh Huynh, University of South Carolina; Hillary R. Michaels, Maryland Department of Education

*Partial Credit in a Developmental Context: A Mixture Model Approach*

Mark Wilson, Karen Draney, University of California-Berkeley

**Discussants:**

Steven Ferrara, Maryland Department of Education; Michael Kolen, American College Testing;

Brenda H. Loyd, University of Virginia

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**J4 TEST TAKERS' RIGHTS**

(Invited Symposia)

**Organizer/Moderator:** William D. Schafer, University of Maryland

**Presenters:**

*Development of a Statement of Test Taker Rights*

Kurt Geisinger, State University of New York-Oswego

*Rights Related to Testing for Speech and Hearing Service Recipients*

Sharon Goldsmith, American Speech-Language-Hearing Association

*Use of a Statement of Test Taker Rights in Educational Testing*

John Fremer, Educational Testing Service

*Use of a Statement of Test Taker Rights in School Psychology and Counseling*

Douglas K. Smith, University of Wisconsin-River Falls

*Use of a Statement of Test Taker Rights in Employment Testing*

Kevin L. Moreland, Fordham University

**Discussants:**

Walter M. Haney, Boston College; Christa R. Winter, Lewis & Clark College

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Friday, 8:15 - 10:15

Parc 55, Ballroom II, 4th floor

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**K1 TEST VALIDITY**

(Paper Presentation)

**Moderator:** E. James Maxey, American College Testing Program

**Presenters:**

*Heresies of the New Unitary Test Validity*

Ivan A. Stuck, American College Testing

*A Question of Validity: A Model for Teacher Training in Classroom-Based Assessment*

Catherine S. Taylor, Susan B. Nolen, University of Washington

*A Cross-Validation of the Design Components Influencing the Difficulty of Orthographic-Projection Spatial-Ability Items*

Gene A. Kramer, American Dental Association

*Construct Continuity of the Previous PSAT/NMSQT with the Current PSAT/NMSQT*

James D. Lehman, Neil J. Dorans, Educational Testing Service

*The Effect of Eliminating Differences in Course-Taking on Gender Bias in the Prediction of College Grades*

David J. Martin, Texas A&M University

**Discussants:**

Samuel Livingston, Educational Testing Service; Douglas R. Whitney, Regents College

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Friday, 8:15 - 10:15

Parc 55, Ballroom III, 4th floor

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**K2 NEW STANDARD-SETTING METHODS FOR PERFORMANCE ASSESSMENTS**

(Symposium, Sponsor: AERA Division D, Division I, Division H, NCME)

**Chair/Moderator:** Ronald K. Hambleton, University of Massachusetts

**Presenters:**

*Setting Standards on Complex Performance Assessments Using a Policy Capturing Strategy*

Richard M. Jaeger, University of North Carolina-Greensboro

*Setting Standards on Performance Assessments Using the Dominant Profile Method*

Barbara Plake, University of Nebraska-Lincoln; Ronald K. Hambleton, University of Massachusetts-Amherst

*Standard Setting on a Performance Assessment of Physicians' Patient Management Skills*

Brian Clauser, Stephen Clyman, Linette Ross, and Ronald Nungester, National Board of Medical Examiners

*Setting Standards on NAEP Performance Items*

Mark D. Reckase, Susan Cooper Loomis, and Tianyou Wang, ACT

**Discussants:**

Michael Kane, University of Wisconsin; John Norcini, American Board of Internal Medicine

### K3 ITEM RESPONSE THEORY

(Paper Presentation)

**Moderator:** Tim Davey, American College Testing

**Presenters:**

*Assessing the Fit of Unidimensional and Parametric: Item Response Theory Models, Using Nonparametrically Estimated Item Characteristic Curves*

Jeff A. Douglas, University of Illinois; Chunfu Qiu, Northern Illinois University

*An Easy Method to Switch to the Acceleration Model from Other Models for Graded Responses*

Fumiko Samejima, University of Tennessee

*The Almost-Fixed Parameter Model: A Procedure to Allow for Error in Trait-Anchored Item Calibration*

G. Gage Kingsbury, Ronald L. Houser, Portland Public Schools

*The Effect of Sample Size and Test Length on the Accuracy and Consistency of 3PL Model Item Parameter Estimates and ICF's Obtained By TESTGRAF and BILOG*

Liane N. Patsula, Marc Gessaroli, The University of Ottawa

*On Holland's Dutch Identity Conjecture*

Jinming Zhang, University of Illinois

*The Robustness of BILOG to Violations of the Assumptions of Unidimensionality of Test Items and Normality of Ability Distribution*

Levent Kirisci, Tse-Chi Hsu, University of Pittsburgh

**Discussants:**

Peter Pashley, Law School Admission Council; Charles Lewis, Educational Testing Service

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### K4 TEST CONSTRUCTION

(Paper Presentation)

**Moderator:** David A. Frisbie, University of Iowa

**Presenters:**

*Using IRT to Combine Multiple-Choice and Free-Response Sections of a Test Onto a Common Scale Using A Priori Weights*

Robert Lukhele, Educational Testing Service; Stephen G. Sireci, GED Testing Service of the American Council of Education

*Parallel Test Construction Using Classical Item Parameters*

Piet F. Sanders, Alfred J. Verschoor, CITO-National Institute for Educational Measurement (The Netherlands)

*Construction of Parallel Test Forms Using Optimal Test Design*

Mohamed A. Dirir, Connecticut State Department of Education

*A Study of Automated Parallel Test Construction Methods Based on IRT and Classical Test Theory*

Ching-Ying Pan, University of Pittsburgh

*Determining a Target Test Information Function for Constructing Nominally-Parallel Tests*

Scott E. Arbet, American College Testing

**Discussants:**

Linda Wightman, Law School Admission Council; Wayne Patience, American College Testing

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**K5 GENDER AND MATHEMATICS PERFORMANCE**

(Symposium, Sponsor: AERA Division D, Committee of Women in Education R&D, NCME)

**Organizer/Moderator:** Jane Loeb, University of Illinois

**Presenters:**

*Gender-Related Differential Item Functioning on a Middle-School Mathematics Performance Assessment*

Suzanne Lane, Ning Wang, Maria Magone, University of Pittsburgh

*How have the Changes in the SAT Affected Women's Mathematics Performance?*

Nancy Burton, Educational Testing Service

*Gender Differences in the SAT's Predication on Undergraduate Performance at Berkeley*

David K. Leonard, Jiming Jiang, UC-Berkeley

*Participation in Mathematics Courses and Careers: Climate, Grades, and Entrance examination Scores*

Marcia C. Linn, Catherine Kessel, UC-Berkeley

**Discussant:** Katherine Ryan, University of Illinois

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**L1 PERFORMANCE ASSESSMENT**

(Paper Presentation)

**Moderator:** Pamela Aschbacher, University of California-Los Angeles

**Presenters:**

*Contextual Characteristics of Locally Dependent Items in a Large Scale Hands-On Science Performance Assessment*

Steven Ferrara, Hillary Michaels, Maryland Department of Education; Huynh Huynh, University of South Carolina

*The Influence of Contextual Variables on Regression-Based Links between Performance Assessments*

Sheue-Mei Lu, Stephen B. Dunbar, The University of Iowa

*Development of a Scoring Algorithm to Replace Expert Rating for Scoring a Complex Performance Based Assessment*

Linette P. Ross, Brian E. Clauser, Stephen G. Clyman, Kathie M. Rose, Melissa J. Margolis, Ronald J. Nungester, National Board of Medical Examiners; Thomas E. Piemme, Pierre S. Pinceti, George Washington University School of Medicine and Health Sciences; Lucy Chang, Gigi El-Bayoumi, Gary L. Malakoff, George Washington University Medical Center

*The Consequential Validity of Performance Assessments Implemented in a Mathematics Education Reform Project*

Carol Parke, Suzanne Lane, Fan Min Guo, University of Pittsburgh

**Discussants:**

Jason Millman, Cornell University; Joy Frechtling, WESTAT

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**L2 MAKING THE IDEAL REAL: DISSEMINATION AND USE OF THE NCME CODE OF ETHICS**

(Invited Symposia)

**Organizer:** Cynthia B. Schmeiser, American College Testing

**Panelists:**

*Uses of the Code by State Department Assessment Directors*

Sue Rigney, Vermont Department of Education

*Uses of the Code by Educators of Assessment Specialists*

Peter Airasian, Boston College

*Uses of the Code by School District Testing Directors*

Ernie Bauer, National Association of Testing Directors

*Uses of the Code by Test Publishers*

Michael Kean, CTB/McGraw-Hill

**Committee:**

Kurt Geisinger, State University of New York

Sharon Johnson-Lewis, Detroit Public Schools

Edward D. Roeber, Council of Chief State School Officers

William D. Schafer, University of Maryland

Cynthia B. Schmeiser, American College Testing

**L3 TOWARD A BROADER CONCEPTION OF RELIABILITY**

(Symposium, Sponsor: AERA Division D, Division I, NCME)

**Organizer/Moderator:** Susan F. Chipman, Office of Naval Research

**Presenters:**

*A Systems Approach Toward Reliability*

Drew H. Gitomer, Educational Testing Service

*Methods for Evaluating the Consistency of Scores*

Michael T. Kane, University of Wisconsin-Madison

*Theory-Based Analysis of Item-Level Data Within a Test*

David F. Lohman, University of Iowa

*Reliability Indexes Reflect Test Takers Learning Experiences*

Paul Nichols, University of Wisconsin-Milwaukee

**Discussant:** Robert L. Brennan, University of Iowa

**L4 WORKPLACE READINESS ASSESSMENT: THE ROLE OF SCHOOL BASED ASSESSMENT**

(Symposium)

**Organizer:** Phyllis T. H. Grummon, Michigan State University

**Moderator:** Edward D. Roeber, Council of Chief State School Officers

**Presenters:**

*Employer Based Assessment*

Joy R. McLarty, American College Testing, Center for Education and Work

*School Based Assessment*

Jonathan Troper, UCLA, CSE/CRESST

*Individually Based Assessment*

Catherine Smith, Michigan Department of Education

*Classroom Based Assessment*

Phyllis T. H. Grummon, Michigan State University

**Discussant:**

Leslie Sandberg, Institute of Telemedicine, Center for the New West

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**M1 MEASUREMENT'S ROLE IN SCHOOL LEADERSHIP**

(Symposium)

**Organizer/Moderator:** Edward F. Iwanicki, The University of Connecticut

**Presenters:**

Daniel Stufflebeam, Western Michigan University; William Webster, Dallas Independent School District; W. James Popham, University of California-Los Angeles; James Impara, University of Nebraska-Lincoln

**Discussants:**

Chad Ellet, Louisiana State University; Michael Kean, CTB/McGraw-Hill

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**M2 TUNNELING FOR TREASURE: ESTABLISHING AN NCME INFORMATION SERVER**

(Invited Symposia)

**Organizer:** Mark D. Shermis, Indiana University Purdue University-Indianapolis

**Moderator:** Edward D. Roeber, Council of Chief State School Officers

**Presenters:**

*NCME Telecommunications Survey: A Needs Assessment*

Mark D. Shermis, Indiana University Purdue University-Indianapolis

*Gone Gophering: A Prototype Information Server*

Paul M. Stemmer, Madonna University

*Plugging In: Obtaining Access to NCME's Information Server*

Nancy Shiffler, Ann Arbor Public Schools

*Pointers to Other Measurement Information Servers and Forums*

Jeanne Pierce, L. Ruth Struyk, Gongshu Zhang, Northern Illinois University

**Discussant:**

Edward D. Roeber, Council of Chief State School Officers

**M3 METHODOLOGICAL APPROACHES AND ISSUES IN CROSS-CULTURAL PSYCHOMETRICS**

(Invited Symposia)

**Organizer/Moderator:** Jeri Benson, University of Georgia

**Presenters:**

*IRT Perspective*

Norbert Tanzer, University of Graz, Austria

*Covariance Modeling Perspective*

Dennis Hocevar, University of Southern California

*Generalizability Theory Perspective*

Knut A. Hagtvet, University of Bergen, Norway

*Qualitative Research Perspective*

Mary Jo McGee-Brown, University of Georgia

**Discussant:**

Anthony J. Nitko, University of Pittsburgh

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**N1 COMPUTER ADAPTIVE TESTING**

(Paper Presentation)

**Moderator:** Lynda Reese, Law School Admission Council

**Presenters:**

*The Estimation of Item Difficulty from Restricted CAT Calibration Samples*

Robert C. Sykes, Kyoko Ito, CTB McGraw-Hill

*An Investigation of Item Calibration Procedures for a Computerized Licensure Examination*

Kathleen A. Haynie, Walter D. Way, Educational Testing Service

*A Comparison of Two IRT-Based Models for Computerized Mastery Testing When Item Parameters are Uncertain*

Walter D. Way, Robert L. Smith, Charles Lewis, Educational Testing Service

*A Global Information Approach to Computer Adaptive Testing*

Hua-Hua Chang, Educational Testing Service

**Discussants:**

Bert Green, Jr., Johns Hopkins University; Barbara Dodd, University of Texas-Austin

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Friday, 2:15 - 3:45

Parc 55, Barcelona II, 3rd floor

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**N2 RELIABILITY OF PERFORMANCE ASSESSMENT**

(Paper Presentation)

**Moderator:** Michael S. Green, SUNY-Albany

**Presenters:**

*Post Hoc Reliability Analyses of a Large Scale Portfolio Assessment*

Gwyneth M. Boodoo, Educational Testing Service

*Examination of Rater Error in a Performance-Based Assessment of Physician's Clinical Skills*

Melissa J. Margolis, Linette P. Ross, National Board of Medical Examiners

*Rater Analysis and Generalizability of a Video-Prompted Performance Test of Pedagogy*

Norma Sinclair, Mohamed Dirir, Connecticut State Department of Education

*The Preferability of Optimization Algorithms in Determining the Number of Prompts, Modes of Discourse, and Raters in a Direct Writing Assessment*

Jay Parkes, Hoi K. Suen, The Pennsylvania State University

**Discussants:**

Robert Gable, University of Connecticut; Stanley Rabinowitz, Far West Laboratories

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Friday, 2:15 - 3:45

Parc 55, Cervantes, 4th floor

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**N3 THE COST OF PERFORMANCE ASSESSMENT IN SCIENCE: RESOURCE DEMANDS FOR TASK DEVELOPMENT, ADMINISTRATION AND SCORING**

(Invited Symposia)

**Organizer:** Brian M. Stecher, RAND Corporation

**Presenters:**

*Perspectives from RAND*

Brian M. Stecher, RAND Corporation

*Perspectives from the National Assessment of Educational Progress*

Christine O'Sullivan, Educational Testing Service

*Perspectives from the State Collaborative on Assessment and Student Standards*

Allen Doolittle, America College Testing

*Perspectives from the California Learning Assessment Systems*

Kathleen Comfort, California Department of Education

**Discussants:**

Edward D. Roeber, Council of Chief State School Officers; Stephen Klein, RAND Corporation

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Friday, 2:15 - 3:45

Park 55, Medici, 4th floor

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**N4 PERFORMANCE ASSESSMENT: WHAT WE'VE LEARNED SO FAR FROM PILOT STUDIES ABROAD**

(Symposium in Roundtable Format)

**Organizer/Moderator:** Jessie H. Pollack, Maryland State Department of Education

**Roundtable Participants:**

Maryellen Harmon, Boston College; Chang-Shi Hwang, Hu-Hsiung Li, National Taiwan Normal University; Hugo Oettinger, The Ministry of Culture and Sport in Baden Württemberg, Germany; Jessie H. Pollack, Maryland Department of Education

**Discussants:**

Anne Heald, University of Maryland; Samuel Peng, U. S. Department of Education

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**O1 LICENSURE AND CERTIFICATION: PROTECTING EXAMINEES, THE PUBLIC, AND DECISION MAKERS**

(Invited Symposia, Sponsors: NCME; AERA, Division D)

**Organizer:** Mark Raymond, American Registry of Radiologic Technologists

**Moderator:** Michael T. Kane, University of Wisconsin

**Presenters:**

*Job Analysis and the Development of Content Specifications*

Mark Raymond, American Registry of Radiologic Technologists

*Performance Assessment*

David Swanson, National Board of Medical Examiners

*Scaling, Equating and Reporting Scores*

F. Jay Breyer, Educational Testing Service

*Investigating the Validity of Scores and Pass Fail Decisions*

John H. Norcini, American Board of Internal Medicine

*Assuring the Quality of Licensure and Certification Programs*

Benjamin Shimberg, Educational Testing Service

**Discussant:**

Michael T. Kane, University of Wisconsin

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**O2 DIMENSIONALITY ASSESSMENT**

(Paper Presentation)

**Moderator:** William Koch, University of Texas at Austin

**Presenters:**

*Effectiveness of Using New Proximity Measures with Hierarchical Cluster Analysis to Detect Dimensionality Structure in Simulated Data*

Louis A. Roussos, William Stout, University of Illinois

*Real Data Analysis Using a Set Of Tools Developed to Assess the Latent Test Dimensionality Structure*

Hae Rim Kim, William Stout, University of Illinois

*An Alternative Method for Selecting ATI Items for the Stout Test of Essential Dimensionality*

Anne E. Seraphine, University of Texas at Austin; M. David Miller, University of Florida

*The Relationship Between Multidimensional Item Cluster Characteristics and Dimensionality Detection Using DIMTEST*

Daniel M. Bolt, Terry A. Ackerman, Ronna L. Turner, University of Illinois Champaign-Urbana  
*Assessment of Unidimensionality for Mixed Polytomous and Dichotomous Item Data: Refinements of Poly-DIMTEST*

Hsin-hung Li, William Stout, University of Illinois

**Discussants:**

Mark Reckase, American College Testing; Joseph M. Ryan, University of South Carolina

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**O3 APPLICATIONS OF DECISION THEORY TO PRACTICAL TESTING PROBLEMS**  
(Symposium)

**Organizer:** Richard L. Sawyer, American College Testing

**Moderator:** Wim van der Linden, University of Twente, The Netherlands

**Presenters:**

*Comparing the Utility of Two Procedures for Admitting Students to Liberal Arts: An Application of Decision-Theoretic Models*

Gershon Ben-Shakhar, Hebrew University, Israel; Michal Beller, National Institute for Testing Evaluation, Israel

*Some Decision Theory for Course Placement*

Wim J. van der Linden, University of Twente, The Netherlands

*Deriving Compensatory Rules for Selection-Placement-Mastery Decisions*

Hans J. Vos, University of Twente, The Netherlands

*Empirical Utility Functions for Culture Fair Selection*

Gideon J. Mellenbergh, Wulfert P. van den Brink, University of Amsterdam, The Netherlands;

Nicole van der Gaag, Netherlands Interdisciplinary Demographic Institute, The Netherlands

*Eliciting Utility Functions in Validating Course Placement Systems*

Richard L. Sawyer, American College Testing

**Discussant:**

Donald A. Rock, Educational Testing Service

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**OO4 NCME BOARD OF DIRECTORS MEETING**

Members are invited to attend as observers.

**COLLECTION AND AVAILABILITY OF PAPERS**

The ERIC Clearinghouse on Assessment and Evaluation (ERIC/AE) will collect papers from the NCME Annual Meeting for possible dissemination in the ERIC System. If you have not sent in two copies of your paper to ERIC/AE before the meeting, please leave them at the ERIC exhibit booth or forward them when available to NCME Acquisitions, ERIC Clearinghouse on Assessment and Evaluation, 210 O'Boyle Hall, Catholic University of America, Washington, DC 20064. ERIC/AE will forward your paper to the appropriate clearinghouse.

Papers accepted as ERIC documents will be available within 4 to 8 months after the meeting at ERIC microfiche collections or through the ERIC Document Reproduction Service (800-477-3742). In the interim, requests for papers should be referred to the author. Inclusion in ERIC does not preclude you from publishing your paper elsewhere. Write or call ERIC/AE at 800-464-3742 if you have questions.

In addition, NCME and ERIC/AE are sponsoring an FTP/Gopher site for the Annual Meeting papers. See the announcement **Make your paper available via Gopher**, on page 43.

The Central Office does not collect or distribute copies of the Annual Meeting papers.

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