

# NCEMIE

national  
council on  
measurement  
in education



**Annual  
Meeting  
Program**

**April 11–13 2001  
Seattle, WA**

**PROGRAM PROGRAM PROGRAM PROGRAM PROGRAM**  
**2001 ANNUAL MEETING**

**NATIONAL COUNCIL ON  
MEASUREMENT IN EDUCATION**

**Sheraton Seattle Hotel and Towers  
Washington State Convention & Trade Center  
Seattle, WA  
April 11–13**

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**Future Meetings**

2002	New Orleans	April	2–4
2003	Chicago	April	22–24
2004	San Diego	April	13–15
2005	Montreal	April	12–14

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<i>Journal of Educational Measurement</i>	Daniel R. Eignor <i>Educational Testing Service</i>
<i>Educational Measurement: Issues and Practice</i>	Geri Benson <i>University of Pittsburgh</i>
<i>NCME Newsletter</i>	Douglas F. Becker <i>Riverside Publishing Company</i>
<i>ITEMS</i>	Michael J. Zieky <i>Educational Testing Service</i>
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## 2001 Annual Meeting Chairs

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<i>Administrative Support</i>	Carrie Dirks Avis Hudson <i>The College Board</i>
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<i>Run/Walk Co-Directors</i>	Ronald A. Berk <i>Johns Hopkins University</i>  Jon Atherton <i>AA Sports Ltd.</i>

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George Olson	Bruce Thompson	

**NCME Annual Meeting Training Sessions**  
**Seattle, WA, April 10–13**

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. Some courses require advanced registration. The deadline for ordering tickets is March 15, 2001. Any tickets available at the conference will be sold on a first-come, first-served basis at the registration area in the Sheraton Seattle Hotel and Towers.

**PROGRAM PROGRAM PROGRAM PROGRAM PROGRAM**

**Tuesday April 10**

**8:30 a.m. – 4:00 p.m.**

**AA. Computerized Testing—Theory and Practice**

**Presenters:** Cynthia G. Parshall, University of South Florida; Timothy C. Davey, Educational Testing Service; Judith Spray, John Kalohn, ACT, Inc.

**Fee:** \$95

This session will include a broad overview of the field of computerized assessment, an introduction to item response theory (IRT) and how it is used in computerized adaptive testing (CAT), and a practical example of the steps involved in implementing a CAT program. The overview of computerized testing will address a variety of considerations, including the effect of examinees' prior computer experience, appropriate means for estimating reliability and validity in computerized assessment and current research topics such as exposure control and item review. Several demonstrations of computerized testing programs will be provided. Basic IRT topics that will be addressed include item response models, calibration and ability estimation. Specific aspects of IRT for CAT such as item selection algorithms, methods for balancing content levels, and choices of stopping rules will also be covered. Finally, material will be presented demonstrating methods to prepare and evaluate an item bank for a computerized classification test (CCT) using Wald's Sequential Probability Ratios Test (SPRT). The principles presented in this application will be generalizable to other models for computerized testing. Participants will receive a booklet of reference materials related to standards for the use of computerized tests and other topics presented in the training session.

**Friday, April 13**

**2:15 – 6:15 p.m.**

**BB.                    Finishing Up and Finding a Job: Practical Suggestions for Graduate Students in Measurement (co-sponsored with AERA)**

**Directors:**     Deborah J. Harris, Dara Martinovich-Barhite, ACT, Inc.

**Fee:**             \$15

This course addresses practical topics of concern to graduate students in measurement who have questions in areas such as: where jobs are available (e.g., school districts, state departments); what types of things employers look for in application materials; what types of questions might be asked of an interviewee; what types of questions should an interviewee ask; what are possible dissertation topics; should I finish before I leave school; etc. The format of the training session will be a combination of lecture/discussion. The goal is to discuss concerns and provide resources, guidance, and reassurance for graduate students in job hunting situations. Materials will be included from a variety of resources and speakers will cover a variety of situations.

**Tuesday, April 10**

**2:15 – 6:15 p.m.**

**CC.                    MCMC Item Calibration: A Primer**

**Presenter:**     Douglas H. Jones, Rutgers University

**Fee:**             \$40

This session will focus on the use of MCMC. Markov Chain Monte Carlo (MCMC) is a popular computer algorithm for performing Bayesian statistical analysis. As is well known, many important statistical data analysis problems result in analytically intractable posterior distributions. MCMC is a way to obtain samples from the target posterior to estimate its parameters and other features, a basic idea of Monte Carlo simulation. MCMC hasn't been around too long, but it has already found many applications in all kinds of data analysis problems, and has thus advanced the application of Bayesian statistics significantly. This material will be reviewed in a series of two presentations geared to those who have very little experience in Bayesian statistics or simulation. In both presentations, Crystal Ball, an Excel add-in, will be demonstrated and used to implement random sampling from the posterior.



**Tuesday, April 10**

**8:15 a.m. – 12:15 p.m.**

**DD. Automated Procedure for Item Selection and Test Construction Using IRT Information**

**Presenters:** Eduardo C. Cascallar, Alicia P. Schmitt Cascallar, Leslie A. Bliss, Ruth M. Olmsted, Rene C. Grosser, Excelsior College

**Fee:** \$40

The session will present and demonstrate an automated solution to practical problems in the test development process when assembling tests using Item Response Theory information functions. This particular procedure allows information to be efficiently organized, so that the test development process is facilitated. Specifically, an application incorporating spreadsheets and pivot tables was developed to incorporate IRT information into the test assembly process. The spreadsheets assist the process by rank ordering items based on different criteria established *a priori*. Thus the selection of items is automated, replacing the more cumbersome conventional methods that are often time consuming and less efficient. In addition, pivot tables offering user interactivity provide simultaneous summary information that guides in the selection of items. The workshop structure will include a theoretical presentation, followed by a description of the automated item selection process and a demonstration of the application including an interactive audience participation component, and conclude with issues addressed during an actual test assembly process. A bound manual containing material on theoretical concepts and examples of automated tables describing the process to follow, including the procedural steps recommended in the test assembly process, will be provided to each participant.

**Tuesday, April 10**

**9:00 a.m. – 5:00 p.m.**

**EE. Reliability Theory and Applications**

**Presenters:** Robert L. Brennan, University of Iowa; Xiaohong Gao, ACT, Inc.

**Fee:** \$95

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. 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.

**Thursday, April 12**

**2:15 – 6:15 p.m.**

**FF. Reliability Generalization: A Meta-Analytic Method to Characterize Variations in the Reliability of a Measure's Scores Across Administrations (co-sponsored with AERA)**

**Director:** Bruce Thompson, Texas A&M University; Tammi Vache-Haase, Colorado State University

**Fee:** \$15

This course presents a user-friendly introduction to the basic concepts of a new measurement meta-analytic method: reliability generalization. The session presumes no specialized background except basic familiarity with common ANOVA.

**Tuesday, April 10 • Friday, April 13**

**4:15 – 7:15 p.m.**

#### **NCME Board of Directors Meetings**

Members are invited to attend as observers.

#### ***Meeting Locations:***

Tuesday, April 10: Aspen, 2<sup>nd</sup> Floor, Sheraton Towers

Friday, April 13: Board Room, 4<sup>th</sup> Floor, Sheraton Towers

**Major addresses and selected sessions of the annual meeting will be available on cassette tapes. Information on ordering tapes may be obtained in the**

**AERA/NCME Registration area located in the Sheraton Towers.**

### NCME Annual Meeting Attendees Please Note:

Due to the allocation of available meeting space, there will be instances when the start and end times of program sessions will overlap slightly. As you plan your meeting schedule, be sure to check the starting and ending times of each session.

**Wednesday, April 11**

**8:15 – 9:45 a.m.**

#### **A1 Model Fit and the Factors That Effect It—Paper Session**

**Moderator:** Andrea J. Gotzmann, University of Alberta

**Presenters:** Brenda Siok–Hoon Tay–Lim, Ming–mei Wang, John Mazzeo,  
Educational Testing Service  
*The effects of contexts on item performance in the NAEP market basket forms*

David B. Swanson, Brian E. Clauser, Susan M. Case, Hua–Hua Chang, Ronald J. Nungester, National Board of Medical Examiners  
*Analysis of differential item functioning (DIF) using hierarchical logistic regression models*

Amy G. Froelich, Iowa State University; Brian Habing, University of South Carolina

*Refinements of the DIM test methodology for testing unidimensionality and local independence*

Nambury S. Raju, Illinois Institute of Technology; T.C. Oshina, Georgia State University; Claudia P. Flowers, University of North Carolina at Charlotte

*The use of computer-generated thetas in differential item functioning research*

**Discussant:** Lori D. McLeod, Research Triangle Institute

**Wednesday, April 11**

**8:15 – 9:45 a.m.**

#### **A2 Psychometric Issues Concerning the Assessment of English Language Learners: A Closer Look at National Data—Symposium**

**Organizer:** Jamal Abedi, CRESST/UCLA

**Moderator:** Pauline Brooks, The California Endowment

**Presenters:** Seth Leon, CRESST/UCLA  
*Language fluency classification issues*

James Mirocha, CRESST/UCLA  
*Reliability issues in using standardized achievement tests with English language learners*

Jamal Abedi, CRESST/UCLA  
*Validity of standardized achievement tests for English language learners*

**Discussant:** Pauline Brooks, The California Endowment

**A3 Administering and Scoring Adaptive Tests—Paper Session**

**Moderator:** Francis A. Mendez, Rutgers University

**Presenters:** Chi-Keung Leung, Hong Kong Institute of Education; Hua-Hua Chang, National Board of Medical Examiners; Kit-Tai Hau, The Chinese University of Hong Kong  
*Integrating stratification and information approaches for multiple constrained CAT*

Cynthia G. Parshall, Jeffrey D. Kromrey, J. Christine Harmes, Christina Sentovich, University of South Florida  
*Nearest neighbors, simple strata, and probabilistic parameters: An empirical comparison of methods for item exposure control in CATS*

Dehui Xing, British Columbia Ministry of Education; Ronald K. Hambleton, University of Massachusetts Amherst  
*Impact of several computer-based testing variables on the psychometric properties of credentialing exams*

Fumiko Samejima, University of Tennessee  
*Efficient on-line item calibration using a nonparametric method adjusted to computerized adaptive testing*

Fen-Lan Tseng, Tse-Chi Hsu, University of Pittsburgh  
*Multidimensional adaptive testing using weighted likelihood estimation*

**Discussants:** Timothy C. Davey, Educational Testing Service

Daniel O. Segall, Defense Manpower Data Center

Cassettes of this session will be available in the registration area.

**B1 Meet the Press—Invited Interactive Panel Discussion**

**Organizer/**

**Moderator:** Gene Maeroff, Columbia University Teachers College

**Presenters:** Matthew Franck, *St. Louis Post-Dispatch*

Martha Groves, *Los Angeles Times*

Eric Hubler, *Denver Post*

Mike Jackson, *Dallas Morning News*

During this interactive session, NCME members will have an opportunity to meet members of the press who write about educational measurement issues. The reporters will discuss their concerns over reporting accurately on highly technical matters and ask for advice from members from our profession, while NCME members will have an opportunity to learn more about how we can help journalists report on our field accurately. See [www.ncme.org](http://www.ncme.org) for more information. This session is made possible through the sponsorship of the Hechinger Institute on Education.

Cassettes of this session will be available in the registration area.

**Wednesday, April 11****10:00 – 11:30 a.m.****B2 Accommodation Issues in the Assessment of SD/LEP Students: A Summary of Selected Current Research—Symposium****Organizer:** Jamal Abedi, CRESST/UCLA**Moderator:** Wayne Martin, CCSSO**Presenters:** Martha Thurlow, National Center for Educational Outcomes  
*Use of accommodations in state assessment: What data bases tell us about differential levels of use and how to document use of accommodations*John Beilinski, National Center for Educational Outcomes  
*Evaluating the effects of testing accommodations on constructed response math and reading items*Jamal Abedi, CRESST/UCLA  
*Validity considerations in the assessment of LEP students using standardized achievement tests***Discussant:** Wayne J. Camara, The College Board**Wednesday, April 11****10:00 – 11:30 a.m.****B3 Examining Inferences About Science Inquiry Assessments: A New Look at NAEP, TIMSS, and New Standards—Symposium****Organizer:** Joseph A. Jones, SRI International**Moderator:** Patrick Gonzales, Office of Educational Research & Improvement**Presenters:** Michael Trevisan, Washington State University; Angela Haydel, Stanford University; Patty Kreikmeier, SRI International  
*The relationship between NSES standards and benchmark science reference examinations*Geneva Haertel, Joseph A. Jones, Peter Ryan, SRI International; Michael Trevisan, Washington State University  
*Factor structures of science inquire assessments*Joseph A. Jones, Peter Ryan, SRI International  
*NAEP and TIMSS science item characteristics in relation to cut-scores***Discussants:** Eugene Gonzalez, Boston College  
Nambury S. Raju, Illinois Institute of Technology

**Wednesday, April 11****10:35 a.m. – 12:05 p.m.****C1 Psychometric Challenges to State Assessments—Coordinated Paper Session****Organizer/****Moderator:** Luz G. Bay, Measured Progress**Presenters:**

Daniel M. Lewis, CTB/McGraw–Hill

*Standard-setting challenges to state assessments*

Kevin P. Sweeney, Michael L. Nering, Luz G. Bay, Kevin C. Meara, Measured Progress

*Test equating challenges to state assessments*

Michael L. Nering, Luz G. Bay, Measured Progress

*Challenges to providing valid test scores in state assessments***Discussants:**

Michael J. Kolen, University of Iowa

Mark D. Reckase, Michigan State University

**Wednesday, April 11****11:45 a.m. – 1:15 p.m.****D1 New Work on the Evaluation of High-Stakes Testing Programs—Symposium****Organizer/****Moderator:** Daniel Koretz, RAND/CRESST**Presenters:**

Daniel Koretz, RAND/CRESST

*Toward a framework for evaluating gains on high-stakes tests*

Haggai Kupermintz, Lorrie Shepard, Robert Linn, University of Colorado

*Teacher effects as a measure of teacher effectiveness: Construct validity considerations in TVAAS (Tennessee Value Added Assessment System)*

Laura Hamilton, Stephen Klein, Daniel McCaffrey, RAND

*Exploring claims about student achievement using statewide tests*

Brian Stecher, Jeremy Arkes, RAND

*Rewarding schools based on gains: It's all in how you throw the dice***Discussants:**

Edward Haertel, Stanford University

Brian Gong, National Center for the Improvement of Educational Assessment, Inc.

**Wednesday, April 11****11:45 a.m. – 1:15 p.m.****D2                    Setting and Evaluating Classification Standards—Paper Session****Moderator:** Carla Baker Deniz, George Mason University**Presenters:** Clement A. Stone, Alexander Weissnam, Suzanne Lane, University of Pittsburgh*Consistency of student proficiency classifications under competing IRT models for a state assessment program*

Robin Guille, Andrew Wiley, American Board of Internal Medicine; John J. Norcini, Institute for Clinical Evaluation

*The occasion effect in standard setting*

Ning Wang, Randall F. Wiser, Larry S. Newman, Assessment Systems, Inc.

*An evaluation of standard setting using a Rasch-based IRT model*

E. Matthew Schulz, Lin Wang, ACT, Inc.

*The effect of deleting test items on the accuracy of pass/fail decisions based on number correct scoring***Discussant:** Jerry Melican, American Institute of Certified Public Accountants**Wednesday, April 11****12:25 – 1:55 p.m.****E1                    Fitting and Evaluating IRT Models—Paper Session****Moderator:** Charles Ochieng Owuor, University of British Columbia**Presenters:** Jimmy de la Torre, University of Illinois at Urbana–Champaign; Richard J. Patz, CTB/McGraw Hill*A unified approach to item response theory calibration and equating using informative prior distributions*

John R. Donoghue, Catherine M. Hombo, Educational Testing Service

*The effect of item parameter estimation on the distribution of an IRT measure of item fit*Douglas H. Jones, Mikhail Nediak, Rutgers University  
*Item parameter calibration of LSAT items using MCMC approximations of Bayes posterior distributions*Ping Yin, University of Iowa; Xitao Fan, University of Virginia  
*A simulation study of the effects of model–data misfit: Assessing the robustness of IRT parameter estimates***Discussant:** Wim J. van der Linden, University of Twente

**Wednesday, April 11****1:30 – 2:45 p.m.****F1 Predicting Success in College: New Findings on Some Old Concerns—Coordinated Paper Session****Organizers:** Deniz S. Ones, University of Minnesota; Wayne J. Camara, The College Board**Moderator:** Deniz S. Ones, University of Minnesota**Presenters:** Sarah A. Hezlett, Nathan Kuncel, Meredith Vey, Allison Ahart, Deniz S. Ones, John P. Campbell, University of Minnesota; Wayne J. Camara, The College Board*The effectiveness of the SAT in predicting success early and late in college: A comprehensive meta-analysis*

Wayne J. Camara, The College Board

*Effects of coaching on the SAT*

Thanos Patelis, The College Board

*The increased demands placed on achievement tests*

Deniz S. Ones, Sarah A. Hezlett, Nathan Kuncel, Meredith Vey, Allison Ahart, John P. Campbell, University of Minnesota; Wayne J. Camara, The College Board

*The predictive validity of academic performance in high school*

Nathan R. Kuncel, Sarah A. Hezlett, John P. Campbell, Deniz S. Ones, University of Minnesota

*The construct validity of grade point averages: Implication for admissions and research***Discussant:** John W. Young, Rutgers University**Wednesday, April 11****1:30 – 2:45 p.m.****F2 Standard Setting by the Bookmark Method—Paper Session****Moderator:** Theresa R. Alban, University of Maryland, College Park**Presenters:** Chad W. Buckendahl, Barbara S. Plake, James C. Impara, University of Nebraska—Lincoln; Russell W. Smith, Galton Technologies  
*A comparison of Angoff and Bookmark standard setting methods*

Guemin Lee, Daniel M. Lewis, CTB/McGraw-Hill

*A generalizability theory approach toward estimating standard errors for Bookmark standard settings*

William A. Loricé, Stanford University

*Using canonical pseudo-responses to resolve mastery probability indeterminacy in Bookmark standard-setting procedures*

Gary Skaggs, Virginia Polytechnic Institute &amp; State University; Aster Tessema, GED Testing Service

*Item disorderliness with the Bookmark standard setting procedure***Discussant:** Samuel A. Livingston, Educational Testing Service



**Wednesday, April 11****2:15 – 3:45 p.m.****G1      Enhanced Score Reporting on a National Standardized Test—  
Symposium****Organizer:** Anita M. O'Brien, Educational Testing Service**Moderator:** Amy Elizabeth Schmidt, The College Board

**Presenters:** Tom Van Essen, Educational Testing Service  
*Validity and usefulness of enhanced score information*

Lou DiBello, Educational Testing Service  
*Psychometric and measurement issues*

Carolyn C. Crone, Educational Testing Service  
*Statistical issues, including reliability of enhanced score information*

**Discussants:** David F. Lohman, University of Iowa

Mark J. Gierl, University of Alberta

**Wednesday, April 11****3:00 – 4:45 p.m.****H1      Statistical Research in Computerized Adaptive Testing—  
Coordinated Paper Session****Organizer:** Wim J. van der Linden, University of Twente**Moderator:** Rob R. Meijer, University of Twente

**Presenters:** Wim J. van der Linden, Edith M.L.A. van Krimpen-Stoop,  
 University of Twente  
*Using response times to detect aberrant response behavior in  
 computerized adaptive testing*

Cees A. W. Glas, Wim J. van der Linden, University of Twente  
*Modeling variability in item parameters in CAT*

Hans J. Vos, Cees A. W. Glas, University of Twente  
*Multidimensional IRT based adaptive sequential mastery testing*

Rob R. Meijer, University of Twente  
*Methods to test invariant ability across subgroups of items in CAT*

**Discussant:** David Thissen, University of North Carolina at Chapel Hill

**Wednesday, April 11**

**3:00 – 4:30 p.m.**

**H2                    Measuring the Literacy Skills of America's Adults:  
What is Really Being Measured by National Assessments? —  
Symposium**

**Organizer:** Mark Kutner, American Institutes for Research

**Moderator:** Terry Salinger, American Institutes for Research

**Presenters:** Sheida White, National Center for Education Statistics  
*An overview of the Kirsch–Mosenthal framework*

Mark Kutner, American Institutes for Research  
*Issues concerning the Kirsh–Mosenthal framework*

Andrew Kolstad, National Center for Education Statistics; Jon  
Cohen, American Institutes for Research  
*An alternative method of reporting adult literacy skills*

Terry Salinger, American Institutes for Research  
*Plans for enhancing the Kirsh–Mosenthal framework*

**Discussant:** Henry Braun, Educational Testing Service

**Wednesday, April 11**

**4:05 – 6:05 p.m.**

**I1                    From the Printing Press to the World Wide Web: Implications  
for Knowledge Acquisition and Assessment Graduate Student  
Issues Committee—Invited Symposium**

**Organizer/**

**Moderator:** Lora Monfils, Rutgers University

**Presenters:** Andrew S. Latham, Teacher Universe  
*Tempered enthusiasm: The promise and pitfalls of on-line education  
and assessment*

Richard M. Luecht, University of North Carolina at Greensboro  
*Challenges of web-based assessment*

Valerie Ruhe, Bruno D. Zumbo, University of British Columbia  
*Assessment in the 21st century: Issues in the validation of  
assessments in technology-based distance/distributed learning*

Mary E. Yakimowski–Sreblick, Hampton (VA) Public Schools and  
VA Tech  
*Assessment in the new millennium: New directions from the school  
district perspective*

**Discussant:** Jeffrey K. Smith, Rutgers University

Cassettes of this session will be available in the registration area.

Room 309, 3<sup>rd</sup> Floor Convention Center

Room 611, 6<sup>th</sup> Floor (access through 4<sup>th</sup>) Convention Center

**Wednesday, April 11****4:45 – 6:15 p.m.****J1 Cognitive Considerations in Test Development—Paper Session****Moderator:** Tom Van Essen, Educational Testing Service**Presenters:** Malcolm I. Bauer, Educational Testing Service; Robert J. Mislevy, University of Maryland/Educational Testing Service; John T. Behrens, Cisco Systems*How to create complex measurement models: A case study of principled assessment design*

Pamela L. Paek, University of California, Berkeley

*Modeling mathematical problem solving strategies*

Kathleen Sheehan, Educational Testing Service; April Ginther, Purdue University

*What do multiple choice verbal reasoning items really measure? An analysis of the cognitive skills underlying performance on a standardized test of reading comprehension skill*

Brian W. Junker, Carnegie Mellon University; Gail Baxter, Educational Testing Service

*Designing developmental assessments: A case study in proportional reasoning***Discussant:** Tom Van Essen, Educational Testing Service**Wednesday, April 11****4:45 – 6:15 p.m.****J2 Linking and Scaling IRT Proficiency Metrics—Paper Session****Moderator:** Carolyn C. Crone, Educational Testing Service**Presenters:** William Walsh, Polina Harik, Brian E. Clauser, National Board of Medical Examiners*The effects of different methods of polytomization on scaling performance assessments using a partial credit model*

Anton A. Béguin, Citogroup; Bradley A. Hanson, ACT, Inc.

*Effect of noncompensatory multidimensionality on separate and concurrent estimation in IRT observed score equating*

Huan-Wen Chen, Michael J. Kolen, University of Iowa

*Linking ITBS survey language battery to complete language battery using five different linking methods*

Richard Tate, Florida State University

*Long-term scale maintenance for mixed format tests containing multiple choice and constructed response items*

Sheila Barron, H.D. Hoover, University of Iowa

*The impact of context effects in test linking based on common items***Discussant:** Carolyn C. Crone, Educational Testing Service

**No-Host Cocktail Party and Reception**

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

The reception is sponsored by ACT, Inc., the American Council on Education/GED Testing Service, CTB/McGraw-Hill, Educational Testing Service, Harcourt Educational Measurement, Measured Progress, and the National Board of Medical Examiners.

**Thursday, April 12****5:50 – 7:30 a.m.****Fitness Walk/Run**

**Co-Directors:** Ronald A. Berk, Johns Hopkins University; Jon Atherton, AA Sports Ltd.

Run or walk 5K/2.5K course in Myrtle Edwards Park. **Meet in the Lobby of the Sheraton at 5:50 a.m.** Buses will leave promptly at 6:00 a.m. for the Park. The last bus will return to the Sheraton by 7:30 a.m. **PREREGISTRATION IS REQUIRED.**

This event is made possible through the sponsorship of: Harcourt Educational Measurement, CTB/McGraw-Hill, National Evaluation Systems, Riverside Publishing Company, and *Runner's World*.

**Thursday, April 12****8:00 – 10:00 a.m.**

**K1 NCME Business Meeting and Presidential Address**  
**The Top Ten Things that Parents Want to Know about Testing:**  
**How NCME Can Help**

**Presenter:** John Fremer, Educational Testing Service

Breakfast ticket required. NCME members who would like to attend only the presidential address are welcome at 8:45 AM.

Cassettes of this session will be available in the registration area.

**Thursday, April 12****10:15 a.m. – 12:15 p.m.****L1      Annual Teachers' Classroom Assessment Recognition Program—Part I: Coordinated Paper Session****Five Years of Classroom Assessment Development:  
A Washington State Showcase****Organizer/****Moderator:** Rick Stiggins, Assessment Training Institute**Presenters:** Terry Bergeson, Washington Superintendent of Public Instruction  
*Facing the political realities of balancing classroom and standardized assessment*Pat Rachel, Washington Education Association  
*The Washington Education Association's cadre of classroom assessment trainers*Rick Stiggins, Assessment Training Institute  
*Learning teams for classroom assessment literacy development*Linda Gohlke, Shoreline School District  
*Assembling toolkits of classroom assessment examples*John Woodward, University of Puget Sound  
*Productive assessment literacy training in teacher preparation***Discussants:** Judith Arter, Assessment Training Institute  
*Program evaluation results*Joe Willhoft, Tacoma Schools  
*One school district's perspective*

Cassettes of this session will be available in the registration area.

**Thursday, April 12****10:35 a.m. – 12:05 p.m.****M1      Strategies for Increasing and Diversifying the Educational Measurement Community—Interactive Panel Discussion****Organizers:** NCME Recruitment of Educational Measurement Specialists and Minority Issues in Testing Committees**Facilitator:** Stephen G. Sireci, University of Massachusetts Amherst**Presenters:** Linette Ross, National Board of Medical Examiners  
Ernest C. Davenport, University of Minnesota  
Daria Ellis, National Board for Professional Teaching Standards  
Won-Chan Lee, ACT, Inc.  
Joseph O'Reilly, Mesa (AZ) Public Schools  
María Pennock-Román, Penn State University

**Thursday, April 12****10:35 a.m. – 12:05 p.m.****M2                    Assessment and Teacher Quality—Symposium****Organizer/****Moderators:** Karen J. Mitchell, Kathleen T. Knowles, National Research Council

**Presenters:** David Z. Robinson, Carnegie Corporation of New York  
 Carl A. Grant, University of Wisconsin—Madison  
 Barbara S. Plake, University of Nebraska—Lincoln  
 Pamela A. Moss, University of Michigan

**Discussants:** Lloyd Bond, University of North Carolina at Greensboro  
 Martin Orland, U.S. Department of Education

**Thursday, April 12****12:25 – 1:55 p.m.****N1                    Automated Essay Graders: Performance Assessment in the New Millennium—Symposium****Organizer/****Moderator:** Mark D. Shermis, IUPUI Testing Center

**Presenters:** Jill Burstein, ETS Technologies, Inc.  
*Progress in e-Rater scoring: New methods toward scoring and essay-based feedback*  
 Scott Elliot, Vantage Technologies, Inc.  
*IntelliMetric™: Technical characteristics and selected study results*  
 Ellis B. Page, TruJudge, Inc.  
*Project essay grade (PEG): (1965–1973) (1993–2001)*  
 Darrell Laham, Knowledge Analysis Technologies  
*Automatic scoring and annotation of essays with the Intelligent Essay Assessor*

**Discussants:** Pamela A. Moss, University of Michigan  
 John Fremer, Educational Testing Service

Cassettes of this session will be available in the registration area.

**Thursday, April 12**

**12:25 – 1:55 p.m.**

Cedar, 2<sup>nd</sup> Floor Sheraton Towers

**N2                    Methodological Notes from the Analysis of NAEP Performance Assessment Data—Coordinated Paper Session**

**Organizer:** Nancy L. Allen, Educational Testing Service

**Moderator:** Peggy G. Carr, National Center for Education Statistics

**Presenters:** John R. Donoghue, Catherine M. Hombo, Educational Testing Service

*The distribution of an item-fit measure for polytomous items*

Jiahe Qian, Educational Testing Service

*Effects of different starting values on the scaling of assessments with small number of items*

Nancy L. Allen, Educational Testing Service

*e-Rater and NAEP essay scores*

Brenda Siok-Hoon Tay-Lim, Educational Testing Service

*Investigation of the complex relationship of NAEP items using cluster analysis and factor analysis*

**Thursday, April 12**

**12:25 – 1:55 p.m.**

Room 416, 4<sup>th</sup> Floor Sheraton Towers

**N3                    Uncommon Estimates of Standard Errors—Paper Session**

**Moderator:** James M. Graham, Texas A&M University

**Presenters:** Guemin Lee, Anne R. Fitzpatrick, CTB/McGraw-Hill

*The influence of student sampling plan on standard errors for school PAAC*

Dean A. Colton, ACT, Inc.

*Smoothing before norming*

Won-Chan Lee, ACT, Inc.

*A multinomial error model for tests with polytomous items*

David F. Lohman, University of Iowa

*Two IRT-based estimates of personal, conditional standard errors of measurement*

Wenchun Feng, Robert Ankenmann, University of Iowa

*The applicability of jackknife procedure for estimating standard errors for variance component estimates in random effects G study  $p \times i$  and  $p \times i \times r$  designs*

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



**Thursday, April 12****12:25 – 1:55 p.m.**

**N4      Annual Teachers' Classroom Assessment Recognition Program—Part II: A Washington State Classroom Assessment Demonstration Showcase**

**Organizer:** Rick Stiggins, Assessment Training Institute

Twenty-five Washington State teachers and administrators will offer roundtable and poster presentations on their applications of innovative, high-quality classroom assessments. Several will highlight their uses of student-involved assessment, record keeping and communication. Others will showcase the professional development strategies they use to develop classroom assessment literacy or their unique applications of technology in classroom assessment.

**Thursday, April 12****2:15 – 3:45 p.m.**

**O1      Increasing the Usefulness of Achievement Test Results—Symposium**

**Organizer:** Judith A. Koenig, National Research Council

**Moderator:** Pasquale J. DeVito, National Research Council

**Presenters:** Mary Lyn Bourque, National Assessment Governing Board

*Increasing the usefulness of NAEP data*

Ronald K. Hambleton, April Zenisky, University of Massachusetts Amherst

*Studies to improve the way state and national test scores are reported*

LeAnne Gamache, Littleton Public Schools

*Reporting district-level NAEP data*

Mark D. Reckase, Michigan State University

*Designing a market basket for NAEP*

**Discussants:** John Poggio, University of Kansas

Joseph O'Reilly, Mesa (AZ) Public Schools

Cassettes of this session will be available for purchase in the registration area.

**O2 Applications of Model-Based Measurement to Solve Difficult, Real-World Problems Arising in a Large-Scale Testing Program—Coordinated Paper Session**

**Organizer/**

**Moderator:** Gary L. Thomasson, Defense Manpower Data Center

**Presenters:** Iosif A. Krass, Defense Manpower Data Center  
*Application of score information in CAT pool development and its relation with “likelihood test information”*

W. Alan Nicewander, Mary Quenette, Defense Manpower Data Center

*(Inexpensive) model-based vs. (very expensive) empirical equating of test forms*

Gary L. Thomasson, Defense Manpower Data Center

*Using model-based measurement equating techniques to equate tests having strongly “abnormal” score distributions*

Daniel O. Segall, Defense Manpower Data Center

*Detecting compromise in high-stakes computerized adaptive testing: A verification testing approach*

**Discussants:** Nambury S. Raju, Illinois Institute of Technology

Terry A. Ackerman, University of North Carolina at Greensboro

**Thursday, April 12****2:15 – 3:45 p.m.****03            Items: The Next (Automatic) Generation—Coordinated Paper Session****Organizer:** Catherine M. Hombo, Educational Testing Service**Moderator:** Henry Braun, Educational Testing Service

**Presenters:** Amy Dresher, University of Pittsburgh; Catherine M. Hombo, Educational Testing Service  
*A simulation study of the impact of automatic item generation on item and ability parameter estimation*

Catherine M. Hombo, Educational Testing Service; Amy Dresher, University of Pittsburgh  
*A simulation study of the impact of automatic item generation under NAEP-like data conditions*

Jonathan Manalo, Michigan State University; Eiji Muraki, Educational Testing Service; Akihito Kamata, Florida State University  
*A hierarchical item response model for item isomorphs*

Joy L. Matthews-López, Catherine M. Hombo, Educational Testing Service  
*Modeling the hyperdistribution of item parameters to improve the accuracy of recovery in estimation procedures*

Joanna S. Gorin, University of Kansas  
*Automated item generation in spatial reasoning: An investigation of assembling objects (AO) problems*

**Discussants:** Paul Nichols, ACT, Inc.  
 Don McLaughlin, American Institutes for Research

**Thursday, April 12****4:05 – 6:05 p.m.**

**P1            Important Topics in K–12 Large–Scale Assessment:  
A Measurement and Policy Perspective on Each—  
Invited Symposium**

**Organizer/**

**Moderator:** Gary A. Schaeffer, CTB/McGraw–Hill

**Presenters:** Marc W. Julian, CTB/McGraw–Hill; Shu Jing Yen, Maryland State  
Department of Education

*Field test and operational test design issues*

James E. Carlson, National Assessment Governing Board; Peggy G.  
Carr, National Center for Education Statistics

*Scoring and scaling open–ended items*

Richard J. Patz, CTB/McGraw–Hill; Martha L. Thurlow, National  
Center on Educational Outcomes

*Standardization and accommodation in student testing*

S.E. Phillips, Consultant; Robert C. Sykes, CTB/McGraw–Hill

*High–stakes testing and legal considerations*

**Thursday, April 12****4:05 – 6:05 p.m.**

**P2            Innovative Measurement Models for Performance  
Assessment—Symposium**

**Organizer:** Frank Jenkins, Educational Testing Service

**Moderator:** Paul W. Holland, Educational Testing Service

**Presenters:** Catherine Hombo, John R. Donoghue, Educational Testing Service  
*Applying the hierarchical raters' model to NAEP*

Matthew Johnson, Frank Jenkins, Educational Testing Service;  
Edward H. Ip, Steven Scott, University of Southern California

*A general IRT model for performance assessment*

Jinming Zhang, Educational Testing Service

*Using multidimensional IRT to analyze item response data*

Frank Jenkins, Educational Testing Service

*Bayesian inference networks for modeling complex performance  
assessments*

**Discussant:** Paul W. Holland, Educational Testing Service

**Thursday, April 12****4:05 – 6:05 p.m.****P3                    Differential Item Functioning: State of the Art—Interactive Symposium****Organizer/****Moderator:** Brian Habing, University of South Carolina

**Presenters:** Louis Roussos, Law School Admission Council  
 David Thissen, University of North Carolina at Chapel Hill  
 Bruno D. Zumbo, University of British Columbia  
 Rebecca Zwick, University of California, Santa Barbara

**Discussants:** Terry A. Ackerman, University of North Carolina at Greensboro  
 John R. Donoghue, Educational Testing Service

Cassettes of this session will be available in the registration area.

**Thursday, April 12****4:05 – 6:05 p.m.****P4                    Computer-Based TOEFL: Summary of Current Implementation—Symposium****Organizer/****Moderator:** Xiang Bo Wang, Educational Testing Service

**Presenters:** Patricia Carey, Educational Testing Service  
*Overview of current CBT TOEFL*  
 Daniel R. Eignor, Educational Testing Service  
*Critical research in support of implementation of CBT TOEFL*  
 Daniel R. Eignor, Educational Testing Service  
*Algorithms used in the implementation of CBT TOEFL*  
 Marna Golub-Smith, Educational Testing Service  
*Challenges of on-line calibration and scaling with multilingual examinee populations*  
 Xiang Bo Wang, Educational Testing Service  
*CBT TOEFL item pool creation, maintenance and usage*  
 Yong-won Lee, Educational Testing Service  
*The essay scoring and scorer reliability in TOEFL CBT*

**Discussants:** Stephen G. Sireci, University of Massachusetts Amherst  
 Neal M. Kingston, Measured Progress

**P5                      Testing Accommodations: Raising a White Flag or Waving a  
Checked One? —Interactive Symposium**

***Organizer/***

***Moderator:*** Gregory J. Cizek, University of North Carolina at Chapel Hill

***Audience***

***Survey***

***Coordinator:*** Douglas F. Becker, Riverside Publishing Company

***Presenters:*** Kurt F. Geisinger, LeMoyne College

Diana Pullin, Boston College

Rina Sjolund, ACT, Inc.

Gerald Tindal, University of Oregon

**Thursday, April 12****4:05 – 6:05 p.m.****P6 Graduate Student Poster Session****Organizer:** Bonita Davidson, University of British Columbia

- Posters:**
1. Theresa R. Alban, Gregory R. Hancock, University of Maryland, College Park  
*A survey of measurement, statistics, and evaluation doctoral programs in North America*
  2. Daniel Altman, Texas A&M University  
*Constructing good tests: A summary of basic precepts and principles presented in measurement textbooks*
  3. Barbara Brawn, University of British Columbia  
*The effect of reversing positive and negative anchors on semantic differential scales*
  4. Bonita Davidson, Stephanie Barclay McKeown, Bruno D. Zumbo, University of British Columbia  
*A statistical method for reliability generalization: Two case studies*
  5. Carla Baker Deniz, George Mason University  
*The history of research methods in private speech: How can the past inform the future?*
  6. Alan M. Dillingham, University of Massachusetts Amherst  
*Incomplete MDS designs and applications to computer adaptive testing*
  7. Kim Sung Eun, Penn State University  
*Meta analysis of gender differences in test scores vs grades using HLM*
  8. M. N. Gelin, Bruno D. Zumbo, A.M. Hubley, University of British Columbia  
*DIF and various item response formats: A study of the CES-D*
  9. Andrea J. Gotzmann, Keith A. Boughton, Mark J. Gierl, University of Alberta  
*The effects of ability differences on type I error and power rates using SIBTEST and TestGraf*
  10. James M. Graham, Texas A&M University  
*A primer on the use of SEM to evaluate the fit of diverse classes of measurement models*
  11. Abbie C. Guthrie, Texas A&M University  
*A primer on basic models for vertical and horizontal test score equating*
  12. Michael G. Jodoin, Kristen L. Huff, University of Massachusetts Amherst  
*Examining type I error and power rates when ability*

*distributions are unequal with the logistic regression procedure for DIF detection*

13. S. Neil Marsh, Texas A&M University  
*An introduction to various approaches to standard setting*
14. Joy L. Matthews-López, Educational Testing Service  
*A Monte Carlo study of the Mantel-Haenszel procedure for detecting differential item functioning in small samples*
15. Francis A. Mendez, Rutgers University  
*Application of data mining to response data in computerized adaptive testing*
16. Lora Monfils, Rutgers University  
*A simulation study of the distribution of a likelihood-ratio measure of item fit*
17. Deanna L. Morgan, University of Georgia  
*A generalizability analysis of the Torrance Test of Creative Thinking-Figural (TTCT-F)*
18. Charles Ochieng Owuor, Bruno D. Zumbo, University of British Columbia  
*Implications of ordinal scale categorization on multiple regression models under different distributions and conditions: An assessment of the accuracy and information of Likert-type scales on regression analysis*
19. Gautam Puhan, University of Alberta  
*Gender differences in testing and item context: Does it make a DIF?*
20. Ellen D. Reed, Stanford University  
*Measuring the achievement of students with learning disabilities and students with attention deficit hyperactivity disorder: Test accommodations and score interpretations*
21. Wonsook Julie Sohn, University of Illinois at Urbana-Champaign  
*Application of a multi-group confirmatory factor analysis in testing for measurement invariance*
22. Dawn Vandenbosch, Texas A&M University  
*Evolving views of the nature of score validity*
23. Kelly Williams, Steven L. Wise, Richard West, James Madison University  
*Multifaceted measurement of critical thinking skills in college students*
24. April Zenisky, Ronald K. Hambleton, University of Massachusetts Amherst; Frédéric Robin, Educational Testing Service  
*Two-stage large sample DIF procedures for state assessments*



**Friday, April 13****8:15 – 9:45 a.m.****Q1            Creating High-Stakes Tests That Help Teachers—Symposium****Organizer:** W. James Popham, UCLA**Moderator:** Thomas M. Haladyna, Arizona State University West**Presenters:** W. James Popham, UCLA*Scrutinizing high-stakes test items from an instructional perspective*

Selvin Chin-Chance, Hawaii Department of Education

*Results of a large-scale instructionally oriented review of high-stakes test items*

James C. Impara, University of Nebraska–Lincoln

*Alignment: One element of an assessment's instructional utility***Discussants:** Edward J. Slawski, Harcourt Educational Measurement

Thomas M. Haladyna, Arizona State University West

Cassettes of this session will be available in the registration area.

**Friday, April 13****8:15 – 10:15 a.m.****Q2            The “Three W’s” meet the “Three R’s”: Computer-Based Testing in the Schools—Why, What, and How—Invited Symposium****Moderator:** Randy Bennett, Educational Testing Service**Presenters:** Diane Shorrock-Taylor, University of Leeds (UK)*Creating a computerized world class test*

Randy Bennett, Educational Testing Service

*Using new technology in NAEP: The NAEP technology based assessment studies*

Wayne Newburger, Oregon Department of Education

*On-line student assessment: A state perspective*

Timothy Vansickle, Riverside Publishing

*On-line standards-based assessment to guide instruction***Discussant:** Eva Baker, CRESST/UCLA

Cassettes of this session will be available for purchase in the registration area.

**Friday, April 13****8:15 – 10:15 a.m.**

**Q3 Fairness in Testing: Applying the New Standards—Joint Committee on Testing Practices—Invited Panel Discussion**

**Organizer/**

**Moderator:** Julie Noble, ACT, Inc.

**Presenters:** Carole Perlman, Chicago Public Schools  
 Douglas K. Smith, University of Albany, State University of New York  
 Janet Helms, Boston College  
 William “Gee” Harris, Association of Test Publishers  
 John Fremer, Educational Testing Service  
 Janet Wall, ACT, Inc.

**Discussants:** Bert Green, Johns Hopkins University  
 Cynthia B. Schmeiser, ACT, Inc.

**Friday, April 13****10:00 – 11:30 a.m.**

**R1 Graduate Student Paper Session—Invited Coordinated Paper Session**

**Organizer:** Lisa Keller, University of Massachusetts Amherst

**Moderators:** Lisa Keller, University of Massachusetts Amherst;  
 Rufus Carter, University of Florida

**Presenters:** Robin D. Anderson, James Madison University  
*Stereotype threat: The effects of gender identification on standardized test performance*  
 Mary J. Pitoniak, University of Massachusetts at Amherst  
*A multitrait-multimethod investigation of the uniform CPA examination*  
 Jill van den Heuvel, University of Pittsburgh  
*Will the real SES measure please stand up?*  
 Pamela L. Paek, University of California–Berkeley  
*Conceptualizing mathematical problem solving*

**Discussants:** Hariharan Swaminathan, University of Massachusetts at Amherst  
 Linda Cook, Educational Testing Service

**Friday, April 13****10:35 a.m. – 12: 05 p.m.****S1      Score Comparability Across Changing Circumstances—Paper Session****Moderator:** Dawn Vandenbosch, Texas A&M University

**Presenters:** N. Scott Bishop, Riverside Publishing  
*The validity of reading comprehension test scores: Evidence of generalizability across different test administration conditions*

Hunter M. Breland, Eiji Muraki, Yong-Won Lee, Educational Testing Service  
*Comparability of TOEFL CBT essay prompts for different response modes*

P. Adam Kelly, Florida State University  
*Automated scoring systems for analytical writing essays: Demonstrating score validity*

Kyoko Ito, Changhua Rich, Zhen Wang, CTB/McGraw-Hill  
*An investigation of the psychometric comparability between tests in two languages that are not direct translations*

Gary A. Schaeffer, Dianne Henderson, Marc Julian, CTB/McGraw-Hill; Nancy Bene, Maryland State Department of Education  
*A comparison of weighted raw scores and IRT pattern scores for tests with dichotomous and polytomous items*

**Discussant:** Daniel R. Eignor, Educational Testing Service**Friday, April 13****10:35 a.m. – 12:05 p.m.****S2      Reliability of Rater Judgements—Paper Session****Moderator:** Kelly Williams, James Madison University

**Presenters:** Keith A. Boughton, Don A. Klinger, Mark J. Gierl, University of Alberta  
*Effect of rater error on parameter recovery of the generalized partial credit model and graded response model*

Husein Taherbhai, University of Pittsburgh; Michael Young, Harcourt Educational Measurement  
*A simulation study of rater impact on differentially weighted composite scores, using the multifaceted Rasch model*

Xiaohong Gao, ACT, Inc.  
*A further look at rater and task sampling variability in a performance assessment*

Kirk Ridge, Measurement Inc.  
*Do raters demonstrate halo error when scoring a series of responses?*

**Discussant:** Catherine J. Welch, ACT, Inc.

**Friday, April 13**

**11:45 a.m. – 1:15 p.m.**

Room 307, 3<sup>rd</sup> Floor Convention Center

**T1                    The Effects of Model Misfit on CAT Scores—Paper Session**

**Moderator:** Alan M. Dillingham, University of Massachusetts Amherst

**Presenters:** Judy A. Jennings, Barbara G. Dodd, Steven J. Fitzpatrick, University of Texas at Austin

*An investigation of the impact of items that exhibit mild non-uniform DIF on ability estimation in CAT*

Ryan Bowles, University of Virginia; Mary Pommerich, ACT, Inc.

*An examination of the arguments for and against allowing item review on a CAT the specific information item selection algorithm*

Walter P. Vispoel, Sara Clough, Amy Hendrickson, Damien Ihrig, University of Iowa; Tim Bleiler, SUNY

*Can examinees use judgments of relative item difficulty to positively bias scores on computerized adaptive tests?*

Qing Yi, Heru Widiatmo, Jae-Chun Ban, Deborah J. Harris, ACT, Inc.

*Impact of scoring options for not reached items in CAT*

Mei Liu, Law School Admission Council; Fanmin Guo, Renbang Zhu, Educational Testing Service

*Impact of item parameter drift on ability estimation in CAT*

**Discussant:** Walter D. Way, Educational Testing Service

Cassettes of this session will be available in the registration area.

**Friday, April 13**

**12:25 – 1:55 p.m.**

Room 611, 6<sup>th</sup> Floor (access through 4th) Convention Center

**U1                    2000 Career Award Recipient  
Problems, Pitfalls, and Paradoxes in Educational  
Measurement—Invited Address**

**Moderator:** Linda Cook, Educational Testing Service

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

**Discussants:** Wendy M. Yen, ETS K–12 Works

Paul W. Holland, Educational Testing Service

Cassettes of this session will be available for purchase in the registration area.

**Friday, April 13****12:25 – 1:55 p.m.****U2 Test Score and Rater Reliability—Paper Session****Moderator:** Kim Sung Eun, Penn State University

**Presenters:** Lisa M. Floreck, André De Champlain, National Board of Medical Examiners; David W. Kaplan, University of Delaware  
*Assessing sources of score variability in a multi-site medical performance assessment: An application of hierarchical linear modeling*

Robert C. Sykes, Kyoko Ito, Denise Truskosky, CTB/McGraw-Hill  
*Determining the representation of constructed response items in mixed-item format exams*

Jonathan Dings, Boulder Valley Public Schools; Ruth Childs, OISE, University of Toronto; Neal M. Kingston, Measured Progress  
*Effects of matrix sampling on student score comparability in constructed-response and multiple-choice assessments*

Louis T. Mariano, Brian W. Junker, Carnegie Mellon University  
*Developments in the hierarchical rater model*

**Discussant:** Robert Ankenmann, University of Iowa**Friday, April 13****1:30 – 2:45p.m.****V1 Implementing Innovative Measurement Technology in a Computer-Based Certification Testing Program—Symposium****Organizers:** Michael G. Jodoin, Kristen L. Huff, University of Massachusetts Amherst**Moderator:** Cyndy Fitzgerald, Microsoft Corporation

**Presenters:** Cyndy Fitzgerald, Microsoft Corporation  
*Rewards and challenges of implementing an innovative CBT certification exam program*

Richard M. Luecht, University of North Carolina at Greensboro  
*Capturing, codifying, and scoring complex data for innovative, computer-based items*

Kristen L. Huff, University of Massachusetts Amherst  
*Overcoming the challenges of a case-based exam*

Michael G. Jodoin, University of Massachusetts Amherst  
*Evaluating features of innovative item types*

**Discussants:** John J. Norcini, Institute for Clinical Evaluation

Brian E. Clauser, National Board of Medical Examiners

**W1                    On–The–Fly Generative Adaptive Assessment of Quantitative Reasoning: Content, Psychometric and Technological Perspectives—Symposium**

***Organizer/***

***Moderator:*** Isaac I. Bejar, Educational Testing Service

***Presenters:***

Mary E. Morley, Educational Testing Service

*Item models as an approach to capture content expertise*

Michael E. Wagner, Educational Testing Service

*A system for on–the–fly adaptive testing*

Javier Revuelta, Isaac I. Bejar, Martha Stocking, Educational Testing Service

*A Monte Carlo study of the feasibility of the on–the–fly assessment*

Christopher W. T. Chiu, University of Pittsburgh; Isaac I. Bejar, Educational Testing Service

*Isomorphicity as a criterion for evaluation item models taking response time into consideration: A generalizability approach*

Isaac I. Bejar, René R. Lawless, Educational Testing Service

*An empirical study of the equivalence of operational and generative GRE quantitative scores*

***Discussants:*** Michael J. Kolen, University of Iowa

Harry O'Neil, University of Southern California

Cassettes of this session will be available in the registration area.

**Friday, April 13****2:15 – 3:45 p.m.****W2      Operational Issues for Computerized Adaptive Testing Programs—Coordinated Paper Session****Organizer/****Moderator:** Robert L. Smith, Educational Testing Service**Presenters:** Fanmin Guo, Elizabeth Stone, Diane Cruz, Educational Testing Service  
*On-line calibration using PARSCALE item specific prior method:  
Changing test population and sample size*Robert L. Smith, Ming-mei Wang, Marilyn Wingersky, J. Charles Zhao, Aleta Sclan, Educational Testing Service  
*Monitoring items for changes in performance in computerized adaptive tests*Manfred Steffen, Educational Testing Service  
*Stability of item times across uses of the item*

Walter D. Way, Lisa Gawlick, Daniel R. Eignor, Educational Testing Service

*Scoring alternatives for incomplete computer adaptive tests*

Frédéric Robin, Feng Yu, Renbang Zhu, Erin Herbert, Educational Testing Service

*Assessing person fit in operational adaptive testing programs***Discussants:** Deborah L. Schnipke, CAT, Inc.

Barbara S. Plake, University of Nebraska—Lincoln

**Friday, April 13****2:15 – 3:45p.m.****W3      Hidden Standard Errors: What You Don't Know Can Hurt You—Coordinated Paper Session****Organizer/****Moderator:** Steven Gorman, National Center for Education Statistics**Presenters:** Steven Gorman, National Center for Education Statistics  
*An overview of sources of hidden variance in tests and assessments*

Jon Cohen, Eugene Johnson, January Angeles, American Institutes for Research

*Estimates of the precision of estimates from NAEP using a two-dimensional jackknife procedure*

Larry V. Hedges, University of Chicago; Jack L. Vevea, University of North Carolina at Chapel Hill

*A Study of equating in NAEP*John R. Donoghue, Jiahe Qian, Bruce Kaplan, Educational Testing Service  
*Long – term trend writing NAEP: Measuring uncertainty*

**Friday, April 13**

**3:00 – 4:30 p.m.**

Room 307, 3<sup>rd</sup> Floor Convention Center

**X1 Test Reliability—Paper Session**

**Moderator:** Deanna L. Morgan, University of Georgia

**Presenters:** Ping Yin, Robert L. Brennan, University of Iowa  
*An investigation of simple difference scores in a grade-level testing program*

Jane C. Folske, Marc E. Gessaroli, National Board of Medical Examiners  
*Estimating reliability for tests comprised of testlets: A factor analytic approach*

Tamara B. Miller, Carroll College; Michael Kane, University of Wisconsin – Madison  
*The precision of change scores under absolute and relative interpretations*

Amy B. Hendrickson, University of Iowa  
*Reliability of scores from tests composed of testlets: A comparison of methods*

**Discussant:** David Thissen, University of North Carolina at Chapel Hill

**Friday, April 13**

**4:05 – 6:05 p.m.**

Room 611, 6<sup>th</sup> Floor (access through 4th) Convention Center

**Y1 Artificial Intelligence: A “Smart” Choice for Educational Measurement? —Invited Symposium**

**Organizer/**

**Moderator:** David M. Williamson, Educational Testing Service

**Presenters:** Ron Stevens, Adrian Casillas, Terry Vendlinski, UCLA  
*Artificial neural network-based performance assessments using simulations*

Kurt VanLehn, University of Pittsburgh  
*A sensitivity analysis of the Andes Bayesian Student Modeler*

David M. Williamson, Robert J. Mislevy, Russell G. Almond, Educational Testing Service  
*Model criticism of Bayesian networks with latent variables*

Eric Horvitz, Microsoft Corporation  
*Attention, engagement, competency and confusion: Leveraging Bayesian reasoning in educational systems*

**Discussants:** Brian W. Junker, Carnegie Mellon University  
Alan Lesgold, University of Pittsburgh

Cassettes of this session will be available in the registration area.



**Friday, April 13****4:05 – 6:05 p.m.****Y2                    Minority Issues and Selective Admissions in Higher Education—Minority Issues and Testing Committee Session****Organizer/****Moderator:** María Pennock–Román, Penn State University

**Presenters:** Patricia Gandára, University of California, Davis  
 Gwyneth M. Boodoo, Jill Burstein, Educational Testing Service  
 Brent Bridgeman, Educational Testing Service  
 Howard Everson, The College Board

**Friday, April 13****4:45 – 6:15 p.m.****Z1                    Test Security in a High Stakes Environment: Myth or Reality?—National Association of Testing Directors Session****Organizer:** Mary E. Yakimowki–Srebnick, Hampton (VA) Public Schools**Moderator:** Carole Perlman, Chicago Public Schools

**Presenters:** Gregory J. Cizek, University of North Carolina at Chapel Hill  
 Michael Kean, CTB/McGraw–Hill  
 Douglas Rindone, Connecticut State Department of Education  
 Mary E. Yamikowski–Srebnick, Hampton (VA) Public Schools

**Discussants:** Joseph O'Reilly, Mesa (AZ) Public Schools

Zollie Stevenson, U.S. Department of Education

Cassettes of this session will be available in the registration area.

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## Addresses for Moderators, First Authors & Discussants Only

- Abedi, Jamal**, CRESST/UCLA, 300 Charles E Young Dr. N., Box 951522, Los Angeles, CA 90095-1522, jabedi@cse.ucla.edu
- Ackerman, Terry A.**, 207 Curry Building, University of North Carolina Greensboro, Greensboro, NC 27402, taskern@uncg.edu
- Alban, Theresa R.**, University of Maryland, College Park, 10323 Pine Ridge Dr, Elliot City, MD 21042, tablan@bcps.org
- Allen, Nancy L.**, ETS, MS 02-T, Rosedale Rd., Princeton, NJ 08541, nallen@ets.org
- Altman, Daniel**, Texas A&M, Mailstop 1263, College Station, TX 77843, daniel-rayner-altman@tamu.edu
- Anderson, Robin D.**, James Madison University 100 S. Main St., Harrisburg, VA, 22307
- Ankenmann, Robert**, University of Iowa, 340c lc, Iowa City, IA 52242, robert-ankenmann@uiowa.edu
- Arter, Judith**, Assessment Training Institute, 50 SW 2nd Av., Suite 300, Portland, Oregon 97204, ati@assessmentinst.com
- Baker, Eva**, CRESST/UCLA, 300 Charles E Young Dr. N., 152206, Los Angeles, CA 90095-1522, eva@ucla.edu
- Barron, Shelia**, University of Iowa, 334 lc, Iowa City, IA 52242, sheila-barron@uiowa.edu
- Bauer, Malcolm T.**, ETS, Rosedale Rd., Princeton, NJ 08541
- Bay, Luz**, Measured Progress, 171 Watson Rd., Dover, NH 03820, lbay@measuredprogress.org
- Becker, Douglas**, Riverside Publishing, 425 Spring Lake Dr, Itasca, IL 60143, douglas\_becker@hmco.com
- Béguin, Anton**, Citigroup, PO Box 217, 75 AE Enschede, The Netherlands, a.a.beguin@edte.utwente.nl
- Beilinski, John**, National Center for Educational Outcomes, University of Minnesota, 350 Elliott Hall, 75 East River Road, Minneapolis, MN 55455, bieli001@tc.umn.edu
- Bejar, Isaac**, ETS, 11-R, Rosedale Rd., Princeton, NJ 08541, ibejar@ets.org
- Bennett, Randy**, ETS, MS 17-R, Rosedale Rd., Princeton, NJ 08541, rbennett@ets.org
- Bergeson, Terry**, Washington Superintendent of Public Instruction, Old Capitol Bldg., PO Box 47200, Olympia, WA 98504-7200
- Bishop, N. Scott**, Riverside Publishing, 777 E. Irving Park Rd. Unit E, Roselle, IL 60172, scott\_bishop@hmco.com
- Bond, Lloyd**, University of North Carolina, School of Ed., Greensboro, NC 27402-6171
- Boodoo, Gwyneth**, ETS, MS 03-T, Rosedale Rd., Princeton, NJ 08541, gboodoo@ets.org
- Boughton, Keith A.**, University of Alberta, 6-110 Education North, Edmonton, Alberta, T6G 2G5,
- Bourque, Mary Lyn**, Department of Education, 212 Ashton Dr. SW, Leesburg, VA 20175, mlbourque@aol.com
- Bowles, Ryan**, University of Virginia, PO Box 400400, Charlottesville, VA 22904, rpb3b@virginia.edu
- Braun, Henry**, ETS, MS 23-E, Rosedale Rd., Princeton, NJ 08541, hbraun@ets.org
- Braun, Barbara**, University of British Columbia, 2125 Main Mall, Vancouver, BC, V6T 1Z4, Canada, brawnb@interchange.ubc.ca
- Breland, Hunter M.**, ETS, Rosedale Rd. 10-R, Princeton, NJ 08541, hbreland@ets.org
- Brennan, Robert L.**, University of Iowa, 334 lc, Iowa City, IA 52242, robert-brennan@uiowa.edu
- Bridgeman, Brent**, ETS, Rosedale Rd., Princeton, NJ 08541
- Brooks, Pauline**, 3512 Glenhurst Ave., Los Angeles, CA 90039
- Buckendahl, Chad W.**, University of NE Buros Center for Testing, 135 Bancroft Hall, Lincoln, NE 68588-0352, chuck@navix.net
- Burstein, Jill C.**, ETS Technologies, Inc., MS 11R, Rosedale Rd., Princeton, NJ 08541, jburstein@etstechnologies.org
- Camara, Wayne J.**, The College Board, 45 Columbus Ave., New York, NY 10023, wcamara@collegeboard.org
- Carey, Patricia**, ETS, MS 13-L, Rosedale Rd., Princeton, NJ 08541, pcarey@ets.org
- Carlson, James E.**, NAGB, 800 North Capitol Street, NW, Suite 825 Washington, DC 20002
- Carr, Peggy**, National Center for Education Statistics, 1990 K Street, NW, Room 8095, Washington, DC 20006, Peggy\_Carr@ed.gov
- Carter, Rufus**, University of Florida Dept. of Educational Psychology, PO Box 117047, Gainesville, FL 32611, rufus@ufl.edu
- Cascallar, Eduardo C.**, Excelsior College, 7 Columbia Circle, Albany, NY 12203-5159
- Chen, Huan-Wen**, University of Iowa, 418 Hawkeye Drive, Iowa City, IA 52246, Huan-Wen-Chen@uiowa.edu
- Chin-Christie, Selvin**, Hawaii Dept. of Education, P.O. Box 2360, Honolulu, HI 96804, BOE\_Hawaii@notes.k12.hi.us
- Chiu, Christopher W. T.**, University of Pittsburgh, Pittsburgh, PA 15260
- Cizek, Gregory J.**, University of Toledo, 6025 Apple Meadow Drive, Sylvania, OH 43560-1089, gcizek@utnet.utoledo.edu
- Clauser, Brian**, National Board of Medical Examiners, 3750 Market St., Philadelphia, PA 19104, bclauser@mail.nbme.org
- Cohen, Jon**, AIR, Pelavin Research Center (PRC), 1000 Thomas Jefferson Street, NW, Washington, DC 20007-3835, jcohen@air.org
- Colton, Dean**, ACT, Inc., P.O. Box 168, Iowa City, IA 52243, colton@act.org
- Cook, Linda**, ETS, MS 06-N, Rosedale Rd., Princeton, NJ 08541, lcook@ets.org
- Crone, Carolyn C.**, ETS, MS 15-L, Rosedale Rd., Princeton, NJ 08541, ccrone@ets.org
- Davenport, Ernest C.**, University of Minnesota, 204 BuH, 173 Pillsbury Dr SE, Minneapolis, MN 55455, lqr6576@umn.edu
- Davey, Timothy C.**, ETS, MS 15-L, Rosedale Rd., Princeton, NJ 08541, tdavey@ets.org

**Davidson, Bonita**, University of British Columbia, 2125 Main Mall, Vancouver, BC V6T 1Z4, Canada, bms@interchange.ubc.ca

**de la Torre , Jimmy**, University of Illinois at Champaign-Urbana, 603 E. Daniel St., Champaign, IL 61820, jdelator@psych.uiuc.edu

**Deniz, Carla Baker**, George Mason University, 5611 Ridge View Dr, Alexandria, VA 22310, cdeniz@gmu.edu

**DeVito, Pasquale J.**, Dept. of Ed., Shepard Bldg., 255 West Minster St., Providence, RI 02903-3400

**DiBello, Lou**, ETS, 03-T, Rosedale Rd., Princeton, NJ 08541, ldibello@ets.org

**Dillingham, Alan M.**, UMass-Amherst, 152 Hills South, Amherst, MA 01003

**Dings, Jonathan**, Boulder Valley School District, 77 Pima CT., Boulder, CO 80303, johathan.dings@admin.bvssd.k12.co.us

**Donoghue, John R.**, ETS, MS 02-T, Rosedale Rd., Princeton, NJ 08541, jdonoghue@ets.org

**Dresher, Amy**, University of Pittsburgh, WPH 5C01 Pittsburgh, University of Pittsburgh, Pittsburgh, PA 15260, ardst16@pitt.edu

**Eignor, Daniel**, ETS, MS 17-E, Rosedale Rd., Princeton, NJ 08541, deignor@ets.org

**Elliot, Scott**, Vantage Technologies, 31 Pheasant Run, New Hope, PA 18938, scott@vantage.com

**Ellis, Daria**, 1525 Wilson Blvd., Suite 500, Arlington, VA 22209, dellis@nbtptps.org

**Eun, Kim Sung**, Penn State University, 170 Wygant Rd., #12, Horseheads, NY 14845, sek13@psu.edu

**Everson, Howard**, The College Board, 45 Columbus Ave., New York, NY 10023-6992, heverson@collegeboard.org

**Feng, Wenchun**, University of Iowa, 239 Haweye Court, Iowa City, IA 52246

**Fitzgerald, Cyndy**, Microsoft Corp, Inc., PO Box 680, Maple Valley, WA 98038-0680, cyndyf@microsoft.com

**Floreck, Lisa M.**, National Board of Medical Examiners, 3750 Market St., Philadelphia, PA 19104, lfloreck@mail.nbme.org

**Folske, Jane C.**, National Board of Medical Examiners, 3750 Market St., Philadelphia, PA 19104, jfolske@mail.nbme.org

**Franck, Matthew**, St. Louis Post-Dispatch, 400 S. Fourth St., Ste. 1200, St. Louis, MO 63102, mfranck@post-dispatch.com

**Fremer, John**, ETS, MS 38-L, Rosedale Rd., Princeton, NJ 08541, jfremer@ets.org

**Froelich, Amy G.**, Iowa State University, 324 Snedecor Hall, Ames, IA 50011-1210, amyf@iastate.edu

**Gamache, LeAnn**, Littleton (CO) Public Schools, 5776 S., Crocker St., Littleton, CO 80120

**Gandara, Patricia**, University of California-Davis, 425 Bunkhouse Way, Sacramento, CA 95831

**Gao, Xiaohong**, ACT, Inc., PO Box 168, Iowa City, IA 52243-1068, gao@act.org

**Geisinger, Kurt F.**, Le Moyne College, 2 Mayflower Circle, Oswego, NY 13126, geis@maple.lemoyne.edu

**Gelin, M.N.**, University of British Columbia, 3416 Copeland Av., Vancouver, BC V5S 4B6, m\_gelin@hotmail.com

**Gierl, Mark J.**, University of Alberta, 3-104 Education Centre North, Faculty of Education, University of Alberta, Edmonton, AB T6G 2G5 Canada, mgierl@gpu.srv.ualberta.ca

**Glas, Cees A.W.**, University of Twente, 7500 AE, Enschede, Netherlands, Postbus 217

**Gohlke, Linda**, Shoreline (WA) School District, Shoreline Center, 18560 1st Avenue NE, Shoreline, WA 98155, linda.gohlke@shoreschools.org

**Golub-Smith, Marna**, ETS, 13-L, Rosedale Rd., Princeton, NJ 08541, mgolub-smith@ets.org

**Gong, Brian**, PO Box 491, Dover, NH 03821-0491, bgong@nciea.org

**Gonzales, Patrick**, National Center for Education Statistics, 1990 K Street, NW, Room 9071, Washington, DC 20006, Patrick\_Gonzales@ed.gov

**Gonzalez, Eugene**, Boston College, Champion Hall, Room 332, Chestnut Hill, MA 02467, gonzalez@bc.edu

**Gorin, Joanna S.**, University of Kansas, Fraser, Lawrence, KS 66045, jgorin@lark.cc.ukans.edu

**Gorman, Steven**, National Center for Education Statistics, 1990 K Street, NW, Room 8010, Washington, DC 20006, Steven\_Gorman@ed.gov

**Gotzmann, Andrea J.**, 6-110 Education North, University of Alberta, Edmonton, AB T6G 2G5, Canada, gotzmann@ulberta.ca

**Graham, James M.**, Texas A&M University, mail stop: 3126, College Station, TX 77843-1265, james-m-graham@tamu.edu

**Grant, Carl A.**, University of Wisconsin-Madison, 225 N Mills St., Madison, WI 53706, GRANT@EDUCATION.WISC.EDU

**Green, Bert**, The Johns Hopkins University, Psychology Dept., Baltimore, MD 21218, bfgreen@jhu.edu

**Groves, Martha**, LA Times, Martha.Groves@latimes.com

**Guille, Robin**, American Board of Internal Medicine, 510 Walnut St., Suite 1700, Philadelphia, PA 19106-3699, rguille@abim.org

**Guo, Fanmin**, ETS, 13-L, Rosedale Rd., Princeton, NJ 08541, gfanmin@ets.org

**Guthrie, Abbie C.**, Texas A&M University, College Station, TX 77843-1265

**Habing, Brian**, University of South Carolina, Dept. of Statistics, Columbia, SC 29208, habing@stat.sc.edu

**Haertel, Edward**, Stanford University, School of Education, Stanford, CA 94305-3096, haertel@stanford.edu

**Haertel, Geneva**, SRI International, 333 Ravenswood Ave., Menlo Park, CA 94025, geneva.haertel@sri.com

**Haladaya, Thomas M.**, Arizona State University, 1020 E. Le Marche Ave., Phoenix, AZ 85022, tmh@asu.edu

**Hambleton, Ronald**, Univ. of Massachusetts Amherst, Lab. Of Psych. & Evaluative Research, 152 Hills House South, Box 34140, Amherst, MA, 01003-4140, rkh@educ.umass.edu

**Hamilton, Laura**, Rand, 1700 Main Street, P.O. Box 2138, Santa Monica, California 90407-2138, Laura\_Hamilton@rand.org

**Harris, Deborah J.**, ACT Inc., P.O. Box 168, Iowa City, IA 52243, harrisj@ACT.org

**Harris, William G.**, Association of Test Publishers, 906 Wedgewood Way, Atlanta, GA 30350, wgharris@testpublishers.org

**Hedges, Larry V.**, University of Chicago, 1155 E. 60th St., #176, 2-6008, Chicago, IL 60637, hedge@src.uchicago.edu

**Helms, Janet**, Boston College, Campion Hall, 140 Commonwealth Av., Chestnut Hill, MA 2467, janet.helms.1@bc.edu

**Hendrickson, Amy B.**, University of Iowa, 332 Lindquist Center, ITP, Iowa City, IA 52242, amy-b-hendrickson@uiowa.edu

**Hezlett, Sarah A.**, University of Minnesota—Twin Cities Campus, N-218 Elt H, 75 East River Rd., Minneapolis, MN 55455

**Holland, Paul**, ETS, MS 16-T, Rosedale Rd., Princeton, NJ 08541, pholland@ets.org

**Hombro, Catherine**, ETS, MS 02-T, Rosedale Rd., Princeton, NJ 08541, chombo@ets.org

**Horvitz, Eric**, Microsoft Corp., One Microsoft Way, Redmond, WA 98052, erich@microsoft.org

**Hubler, Eric**, The Denver Post, 1560 Broadway, Denver, CO 80202-1577

**Huff, Kristen L.**, University of Massachusetts Amherst, 152 Hills South, Amherst, MA 01003, khuff@educ.umass.edu

**Impara, James**, University of Nebraska-Lincoln, 135 Bancroft Hall, Lincoln, NE 68588-0353, jimpara@unl.edu

**Ito, Kyoko**, CTB/McGraw-Hill, 20 Ryan Ranch Rd., Monterey, CA 93940, kito@ctb.com

**Jackson, Mike**, Dallas Morning News, P.O. Box 655237, Dallas, TX 75265

**Jenkins, Frank**, ETS, MS 02-T, Rosedale Rd., Princeton, NJ 08541, fjenkins@ets.org

**Jennings, Judy A.**, University of Texas, Measurement and Evaluation Center, Box 7246, Austin, TX 78713, judyj@mail.utexas.edu

**Jodoin, Michael G.**, University of Massachusetts Amherst, 152 Hills South, Amherst, MA 01003, mjodoin@psych.umass.edu

**Johnson, Matthew**, ETS, Rosedale Rd., Princeton, NJ 08541, mjohnson@ets.org

**Jones, Douglas H.**, Rutgers University, 18 University Av., Newark, NJ 07102, dhjones@rci.rutgers.edu

**Jones, Joseph A.**, SRI International, 333 Ravenswood Ave., Menlo Park, CA 94025, joseph.jones@sri.com

**Julian, Marc**, CTB/McGraw-Hill, 20 Ryan Ranch Rd., Monterey, CA 93940, mjulian@ctb.com

**Junker, Brian W.**, Carnegie Mellon University, Dept of Statistics, 232 Baker Hall, Pittsburgh, PA 15213, brian@stat.cmu.edu

**Kean, Michael**, CTB/McGraw-Hill, 20 Ryan Ranch Rd., Monterey, CA 93940, mkean@ctb.com

**Keller, Lisa**, University of Massachusetts, Amherst, Amherst, MA 01003

**Kelly, P. Adam**, Florida State University, 275 John Knox Rd., #L-201, Tallahassee, FL 32303, pkelly@garnet.acns.fsu.edu

**Kingston, Neal**, Measured Progress, P.O. Box 1217, Dover, NH 03821-1217, nkingston@measuredprogress.org

**Knowles, Kathleen T.**, National Research Council, BOTA, 2101 Constitution Ave., NW, HA-450, Washington, DC 20418

**Koenig, Judith A.**, National Research Council, BOTA, 2101 Constitution Ave., NW, HA-450, Washington, DC 20418

**Kolen, Michael J.**, University of Iowa, 224-C Linquist Center, Iowa City, IA 52242-1529, michael-kolen@uiowa.edu

**Kolstad, Andrew**, National Center for Education Statistics, 1990 K Street, NW, Room 8087, Washington, DC 20006, Andrew\_Kolstad@ed.gov

**Koretz, Daniel**, CRESST/Rand, 1200 South Hayes St. W8140, Arlington, VA 22202-5050, koretz@rand.org

**Krass, Isosif A.**, DMDC DOD Center—Monterey Bay, 400 Gigling Rd., Seaside, CA 93955-6771

**Kuncel, Nathan R.**, University of Minnesota, N218 Elt H, 75 E River Rd, Minneapolis, MN 55455, kunc001@umn.edu

**Kupermintz, Haggai**, University of Colorado, Campus Box 249 University of Colorado at Boulder, Boulder, CO 80309, Haggai.Kupermintz@Colorado.EDU

**Kutner, Mark**, AIR, 1000 Thomas Jefferson St., NW, Washington, DC 20007, mkutner@air.org

**Laham, Darrell**, Knowledge Analysis Technologies, 4001 Discovery Dr., Suite 2110, Boulder, CO 80303, dlaham@knowledge-technologies.com

**Latham, Andrew S.**, Teacher Universe, Inc., 5900 Hollis St., Suite A, Emeryville, CA 94608, info@teacheruniverse.com

**Lee, Yong-won**, ETS, 13-L, Rosedale Rd., Princeton, NJ 08541,

**Lee, Guemin**, CTB/McGraw-Hill, 20 Ryan Ranch Rd., Monterey, CA 93940, glee@ctb.com

**Lee, Won-Chan**, ACT, Inc., 2201 N. Dodge St., PO Box 168, Iowa City, IA 52243, leew@act.org

**Leon, Seth**, CRESST/UCLA, 300 Charles E Young Dr. N., Los Angeles, CA 90095-1522

**Lesgold, Alan**, University of Pittsburgh, W/PH 5T29 Pittsburgh, PA 15260, al@pitt.edu

**Leung, Chi-Keung**, Hong Kong Institute of Education, Dept. of Math, 10 Lo Ping Rd., Tai Po, Hong Kong, ckleung@ied.edu.hk

**Lewis, Daniel M.**, CTB/McGraw-Hill, 20 Ryan Ranch Rd., Monterey, CA 93940, dlewis@ctb.com

**Liu, Mei**, Law School Admission Council, 661 Penn St., Newtown, PA 18940, mliu@lsac.org

**Livingston, Samuel A.**, ETS, MS 31-L, Rosedale Rd., Princeton, NJ 08541, slivingston@ets.org

**Lohman, David F.**, University of Iowa, 366 Lindquist Center, Iowa City, IA 52242, david-lohman@uiowa.edu

**Lorié, William A.**, Stanford University, 4292-P Wilkie Way, Palo Alto, CA 94306, wlorie@stanford.edu

**Luecht, Richard M.**, University of North Carolina at Greensboro, 209 Curry, Box 26171, Greensboro, NC 27402-6171, rmluecht@uncg.edu

**Maeroff, Gene**, Columbia University, TC BOX 127 New York NY 10027, gim1@columbia.edu

**Manalo, Jonathan**, Michigan State University, 144 Highland Apt 306 East Lansing, MI 48823, manalojo@msu.edu

**Mariano, Louis T.**, Carnegie Mellon University, Dept. of Statistics, 232 Baker Hall, Pittsburgh, PA 15213

**Marsh, S. Neil**, Texas A&M, Mailstop #225, College Station, TX 77843, steven-neil-marsh@tamu.edu

**Martin, Wayne**, Council of Chief State School Officers, One Massachusetts Ave., Washington, DC 20001-1431, waynem@ccsso.org

**Matthews-López, Joy**, ETS, MS 31-L, Rosedale Rd., Princeton, NJ 08541, jmatthews-lopez@ets.org

**McLaughlin, Don**, AIR, 1000 Thomas Jefferson St., NW, Washington, DC 20007

**McLeod, Lori D.**, Research Triangle Institute, PO Box 12194, Research Triangle Park, NC 27709-2194

**Meijer, Rob R.**, University of Twente, 7500 AE, Enschede, Netherlands, Postbus 217, meijer@edte.uwente.nl

**Melican, Jerry**, AICPA, 1211 Ave. of the Americas, New York, NY 10036

**Mendez, Francis A.**, Rutgers University, 180 University Ave., Newark, NJ 07102, francism@pegasus.rutgers.edu

**Miller, Tamara B.**, Carroll College, 100 North East Av., Waukesha, WI 53186, tmiller@cc.edu

**Mirocha, James**, CRESST/UCLA, 300 Charles E. Young Dr. N, Los Angeles, CA 90095-1522

**Mitchell, Karen J.**, National Research Council, BOTB, 2101 Constitution Ave., NW, HA-450, Washington, DC 20418, kmitchel@nas.edu

**Monfils, Lora**, Rutgers University, Graduate School of Education, 10 Seminary Place, New Brunswick, NJ 08901, lmonfils@rci.rutgers.edu

**Morgan, Deanna L.**, University of Georgia, 325 Alderhood Hall, Athens, GA 30602-7143, dmorgan@coe.uga.edu

**Morley, Mary E.**, ETS, MS 12-R, Rosedale Rd., Princeton, NJ 08541, mmorley@ets.org

**Moss, Pamela A.**, University of Michigan, School of Ed., 4220 SEB, Ann Arbor, MI 48109, pamos@umich.edu

**Nering, Michael L.**, Measured Progress, 171 Watson Rd., Dover, NH 03820

**Newburger, Wayne**, Oregon Dept. of Education, 255 Capitol St. NE, Salem, OR 97733100, wayne.newburger@state.or.us

**Nicewander, W. Alan**, DMDC DOD Center-Monterey Bay, 400 Gigling Rd., Seaside, CA 93955-6771, NICEWNR@osd.pentagon.mil

**Nichols, Paul**, ACT, Inc., P.O. Box 168, Iowa City, IA 52243

**Noble, Julie**, ACT, Inc., P.O. Box 168, Iowa City, IA 52243, noblej@act.org

**Norcini, John**, Institute for Clinical Evaluation, 510 Walnut St. Suite 1410, Philadelphia, PA 19106-3699

**O'Brien, Anita**, ETS, 04-L, Rosedale Rd., Princeton, NJ 08541, aobrien@ets.org

**O'Neil, Harry**, University of Southern California, 15366 Longbow Dr., Sherman Oaks, CA 91403, honeil@usc.edu

**Ones, Deniz S.**, University of Minnesota, 75 East River Rd., Minneapolis, MN 55455, deniz.s.ones-1@tc.umn.edu

**O'Reilly, Joseph**, Mesa (AZ) Public Schools, 549 N. Stapley Dr., Mesa, AZ 85203-7297, joreilly@mpsaz.org

**Orland, Martin**, U.S. Dept. of Education, 400 Maryland Ave. SW, Washington, DC 20202-0498

**Owuor, Charles Ochieng**, University of British Columbia, Vancouver, BC, Canada, B6T 1Z4

**Paek, Pamela L.**, University of California-Berkeley, 27150 Moody Court, Los Altos Hills, CA 94022, ppaek@uclink4.berkeley.edu

**Page, Ellis B.**, TruJudge, Inc., 110 Oakstone Dr., Chapel Hill, NC 27514, ebpage@duke.edu

**Parshall, Cynthia G.**, University of South Florida, HMS #01, Tampa, FL 33620, parshall@seaweed.coedu.usf.edu

**Patel, Thanos**, The College Board, 45 Columbus Ave., New York, NY 10023, tpatel@collegeboard.org

**Patz, Richard**, CTB/McGraw-Hill, 20 Ryan Ranch Rd., Monterey, CA 93940, rpatz@ctb.com

**Pernock-Román, María**, Penn State University, 0232 Cedar Bldg., University Park, PA 16802, mip12@psu.edu

**Perلمان, Carole**, 1047 W. Albion, Chicago, IL 60626, cperلمان@csc.k12.us

**Phillips, S.E.**, Consultant for CTB/McGraw-Hill, 20 Ryan Ranch Rd., Monterey, CA 93940

**Pitoniak, Mary J.**, University of Massachusetts Amherst, Amherst, MA 01003

**Plake, Barbara**, University of Nebraska—Lincoln, 135 Bancroft Hall, Lincoln, NE 68588-0348, bplake@unl.edu

**Poggio, John**, University of Kansas, 738 Pearson Hall, Lawrence, KS 66045, jpoggie@ukans.edu

**Popham, W. James**, Prof. Emeritus, University of California, 1706 Keoniloa Place, Koloa, HI 96756, wpopham@ucla.edu

**Potenza, Maria T.**, Microsoft Corporation, One Microsoft Way, Redmond, WA 98052, mariap@microsoft.com

**Puhan, Gautam**, University of Alberta, 6-110 Education North, AB T6G 2G5, Canada, gpuhan@ualberta.ca

**Pullin, Diana**, Boston College, Campion Hall 205B, 140 Commonwealth Ave., Chestnut Hill, MA 02467, diana.pullin.i@bc.edu

**Qian, Jiahe**, ETS, Rosedale Rd., Princeton, NJ 08541, jqian@ets.org

**Rachel, Pat**, Washington Educational Association, 33434-8th Ave. South, Federal Way, WA 98003

**Raju, Nambury S.**, Illinois Institute of Technology, Institute of Psychology, Chicago, IL 60616, raju@iit.edu

**Reckase, Mark D.**, Michigan State University, 461 Erickson Hall, East Lansing, MI 48824-1034, reckase@msu.edu

**Reed, Ellen D.**, Stanford University, Education 38, Stanford, CA 94305-3096, edr@stanford.edu

**Revuelta, Javier**, ETS, Rosedale Rd., Princeton, NJ, 08541, jrevuelta@ets.org

**Ridge, Kirk**, Measurement Inc., 423 Morris St., Durham, NC 27701, kridge@measinc.com

**Rindone, Douglas**, Connecticut State Dept. of Education, 165 Capitol Ave., Hartford, CT 06145

**Rindone, Douglas**, Connecticut State Dept. of Education, 165 Capitol Ave., Hartford, CT 06145

**Robin, Frédéric**, ETS., Rosedale Rd., Princeton, NJ 08541

**Ross, Linette**, National Board of Medical Examiners, 3750 Market St., Philadelphia, PA 19104, lross@mail.nbme.org

**Roussos, Louis**, Law School Admission Council, 661 Penn St., Newtown, PA 18940, lroussos@lsac.org

**Ruhe, Valerie**, University of North BC, 3333 University Way, Prince George, BC, Canada, V2N 4Z9, vruhe@unbc.edu



**Salinger, Terry**, AIR, 1000 Thomas Jefferson St., NW, Washington, DC 20007,

**Samejima, Fumiko**, Dept. of Psychology, 307 Austin Peay Bldg., Knoxville, TN 37996-0900, fsamejim@utk.edu

**Schaeffer, Gary**, CTB/McGraw-Hill, 20 Ryan Ranch Rd., Monterey, CA, 93940 gschaeffer@ctb.com

**Schmeiser, Cynthia B.**, ACT, Inc., 2201 North Dodge St., Iowa City, IA, 52243 schmeis@act.org

**Schmidt, Amy E.**, The College Board, 45 Columbus Ave., New York, NY 10023 aschmidt@collegeboard.org

**Schnipke, Deborah**, CAT, Inc. 1007 Church Street, Evanston, IL 60201 USA, dschnipke@catinc.com

**Schulz, E. Matthew**, ACT, Inc., P.O. Box 168, Iowa City, IA 52243-0168, schulz@act.org

**Segall, Daniel O.**, DMDC DOD Center—Monterey Bay, 400 Gigling Rd.,  
Seaside, CA 93955-6771, segalldo@osd.pentagon.mil

**Sheehan, Kathleen**, ETS, MS-03T, Rosedale Rd., Princeton, NJ 08541-0001, ksheehan@ets.org

**Shermis, Mark P.**, IUPUI Testing Center, 620 Union Drive, Suite G003,  
Indianapolis, IN 46202-5167, mshermis@iupui.edu

**Shorrocks-Taylor, Diane**, University of Leeds (UK) Assessment and Evaluation Unit, School of Education,  
University of Leeds, Leeds LS2 9JT, UNITED KINGDOM

**Sireci, Stephen G.**, University of Massachusetts Amherst, 43 Whittier St., Northampton, MA 01062, sireci@acad.umass.edu

**Sjolund, Rina**, ACT, Inc., P.O. Box 168, Iowa City, IA 52243-0168,

**Skaggs, Gary**, West Mesa Associates, 145 Dixon Dr., Hardy, VA 24101, geskaggs@aol.com

**Slawski, Edward J.**, Harcourt Educational Measurement 555 Academic Court, San Antonio, TX 78204

**Smith, Douglas K.**, 0227 Walker D. Wyman Education Bldg., River Falls, WI 54022-5001

**Smith, Jeffrey K.**, Rutgers University, 18 University Ave., Newark, NJ 07102

**Smith, Robert L.**, ETS, MS 11-L, Rosedale Rd., Princeton, NJ 08541, rsmith@ets.org

**Sohn, Woonsook Julie**, University of Illinois at Urbana—Champaign, 1107 W. Green Street,  
#323, Urbana, IL 61801, w-sohn@uiuc.edu

**Stecher, Brian**, Rand Education, 1700 Main St., Santa Monica, CA 90407-2138, brian\_stecher@rand.org

**Steffen, Manfred**, ETS, Rosedale Rd., Princeton, NJ 08541, msteffen@ets.org

**Stevens, Ron**, UCLA, 43-319A CHS, Los Angeles, CA 90095, rstevens@mednet.ucla.edu

**Stevenson, Zollie**, U.S. Dept. of Education, FOB-6 Room 3W116, Washington, DC 20202

**Stiggins, Rick**, Assessment Training Institute, 50 SW 2nd Av., Ste. 300, Portland, OR 97204, ati@assessmenttinst.com

**Stone, Clement A.**, University of Pittsburgh, 5001 Forbes Quad, Pittsburgh, PA 15260, cas@pitt.edu

**Swaminathan, Hariharan**, University of Massachusetts, Amherst, Amherst, MA 01003

**Swanson, David B.**, National Board of Medical Examiners, 3750 Market St.,  
Philadelphia, PA 19104, dswanson@mail.nbme.org

**Sweeney, Kevin P.**, Measured Progress, 171 Watson Rd., Dover, NH 03820, ksweeney@measuredprogress.org

**Sykes, Robert C.**, CTB/McGraw-Hill, 17542 Sugarmill Rd., Salinas, CA 93903-1437, itosykes@peoplepc.com

**Taherbhai, Husein**, University of Pittsburgh, 3939 O'Hara St., 739 LRDC, Pittsburgh, PA 15260-5139,  
taherbhai@pitt.edu

**Tate, Richard**, Florida State University, 307 Stone Building, Tallahassee, FL 32306-4453, rtate@gamet.acns.fsu.edu

**Tay-Lim, Brenda Siok-Hoon**, ETS, MS 02-T, Rosedale Rd., Princeton, NJ 08541, blim@ets.org

**Thissen, David**, University of North Carolina at Chapel Hill, Davie Hall,  
Chapel Hill, NC 27599-3270, drhissen@email.unc.edu

**Thomasson, Gary L.**, DMDC DOD Center—Monterey Bay, 400 Gigling Rd.,  
Seaside, CA 93955-6771, thomasgl@osd.pentagon.mil

**Thompson, Bruce**, Texas A&M, College Station, TX 77843

**Thurlow, Martha**, National Center for Educational Outcomes, 75 East River Rd., Minneapolis, MN 55455,  
thurl001@tc.umn.edu

**Tindal, Gerald**, University of Oregon, BRT-232 Education, Eugene, OR 97403-5262, geraldtd@darkwing.uoregon.edu

**Trevisan, Michael**, Washington State University, Pullman, WA 99164-2136, trevisan@wsu.edu

**Tseng, Fen-Lan**, 3F No. 44 Sec. 2, Roosevelt Rd, Taipei, Taiwan, R.O.C., ytw@csie.ncnu.edu.tw

**van den Heuvel Jill**, University of Pittsburgh, WWDH 5101, Pittsburg, PA 15260, jrvst10@pitt.edu

**van der Linden, Wim J.**, University of Twente, 7500 AE, Enschede, Netherlands,  
Postbus 217, vanderlinden@edte.utwente.nl

**Vas, Hans J.**, University of Twente, 7500 AE, Enschede, Netherlands, Postbus 217

**Vandenbosch, Dawn**, Texas A&M, College Station, TX 77843, dawnvandenbosch@netscape.net

**Van Essen, Tom**, ETS, MS 16-N, Rosedale Rd., Princeton, NJ 08541, tvanessen@ets.org

**VanLehn, Kurt**, University of Pittsburgh, RDC 823, Pittsburgh, PA 15260, vanlehn@pitt.edu

**Vansickle, Timothy**, Riverside Publishing, 425 Spring Lake Dr, Itasca, IL 60143

**Vispoel, Walter P.**, University of Iowa, 361 Lindquist Center, Iowa City, IA 52242, walter-vispoel@uiowa.edu

**Wagner, Michael E.**, Rosedale Rd., Princeton, NJ 08541, mwagner@ets.org

**Wall, Janet**, ACT, Inc., Po Box 168, Iowa City, IA 52243

**Walsh William**, National Board of Medical Examiners, 3750 Market St., Philadelphia, PA 19104, wwals@mail.nbme.org

**Wang, Ning**, Assessment Systems, Inc., Three Bala Plaza West, Suite 300, Bala Cynwyd, PA 19004, NWANG@harcourt.com

**Wang, Xiang Bo**, ETS, 13-L, Rosedale Rd., Princeton, NJ 08541, bwang@ets.org

**Way, Walter D.**, ETS, MS 11-L, Rosedale Rd., Princeton, NJ 08541, dway@ets.org

**Welch, Catherine J.**, ACT, Inc., Po Box 168, Iowa City, IA 52243

**White, Sheida.** NCES, 1990 K St., NW, Room 8008, Washington, DC 20006, Sheida\_White@ed.gov

**Willhoft, Joe.** Tacoma Schools (WA), 601 S. 8th St., PO Box 1357, Tacoma, WA 98401-1357

**Williams, Kelly.** James Madison University, 800 S. Main St., Harrisonburg, VA 22807,

**Williamson, David.** ETS, Rosedale Rd., Princeton, NJ 08541

**Woodward, John.** University of Puget Sound, 1500 North Warner St., Tacoma, WA 98416, woodward@ups.edu

**Xing, Dehui.** BC Ministry of Education, 3rd Floor, 617 Government St.,  
Victoria, BC, Canada, V8W 9H1, dehui.xing@gems5.gov.bc.ca

**Yakimowski-Srebnick, Mary.** 103 Lookout Circle, Suffolk, VA 23435, myak@aol.com

**Yen, Wendy.** ETS, Rosedale Rd., Princeton, NJ 08541, wyen@ets.org

**Yi, Qing.** ACT, Inc., P.O. Box 168, 2255 N. Dubuque Rd., Iowa City, IA 52243-0168, yiq@act.org

**Yin, Ping.** University of Iowa, Dept. of Educational Measurement and Statistics,  
Iowa City, IA 55242-1529, piyin@weeg.uiowa.edu

**Young, John W.**, Rutgers University, 18 University Ave., Newark, NJ 07102

**Zeniski, April.** University of Massachusetts Amherst, Amherst, MA 01003

**Zhang, Jinming.** ETS, MS 02-T, Rosedale Rd., Princeton, NJ 08541, jzhang@ets.org

**Zumbo, Bruno D.**, University of North BC, 3333 University Way, Prince George, BC, Canada, V2N 4Z9,  
zumbob@unbc.edu

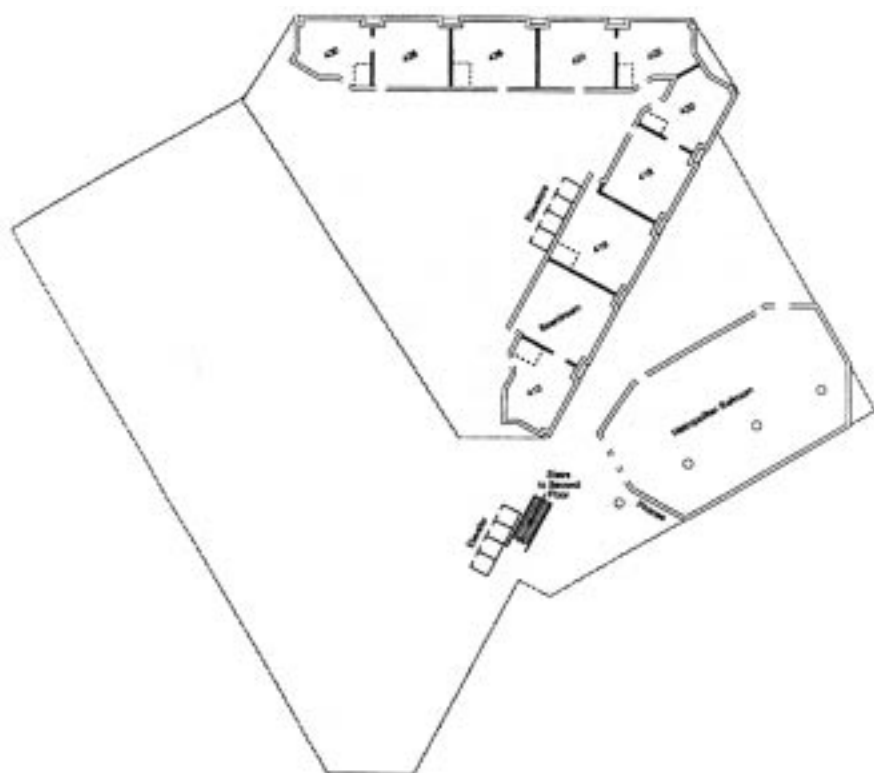
**Zwick, Rebecca.** Univ. of California at Santa Barbara, Santa Barbara, CA 93106-9490, rzwick@education.ucsb.edu

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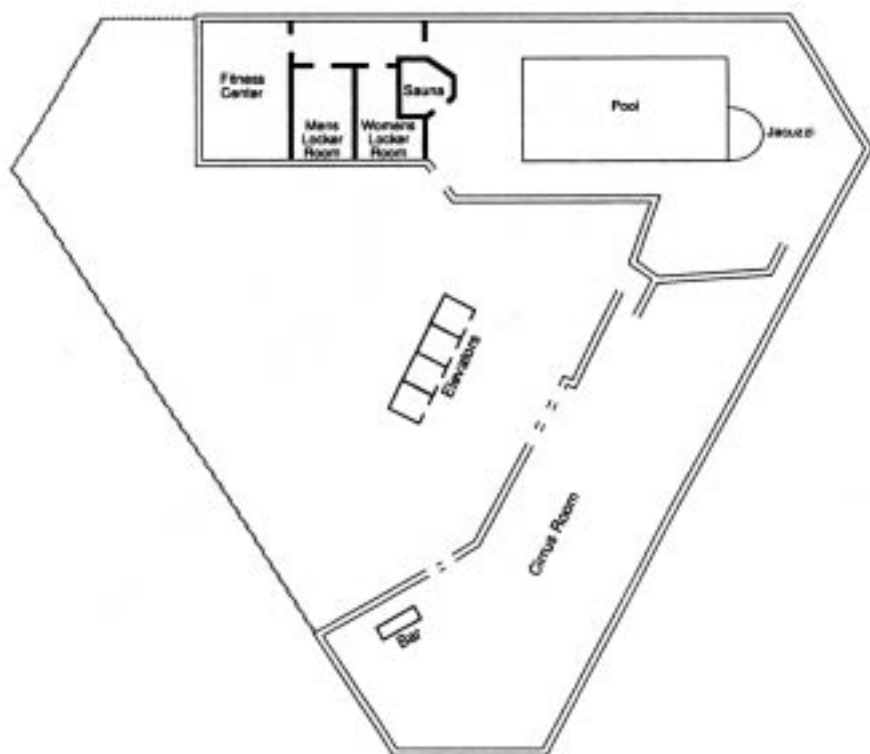
SECOND FLOOR PLAN

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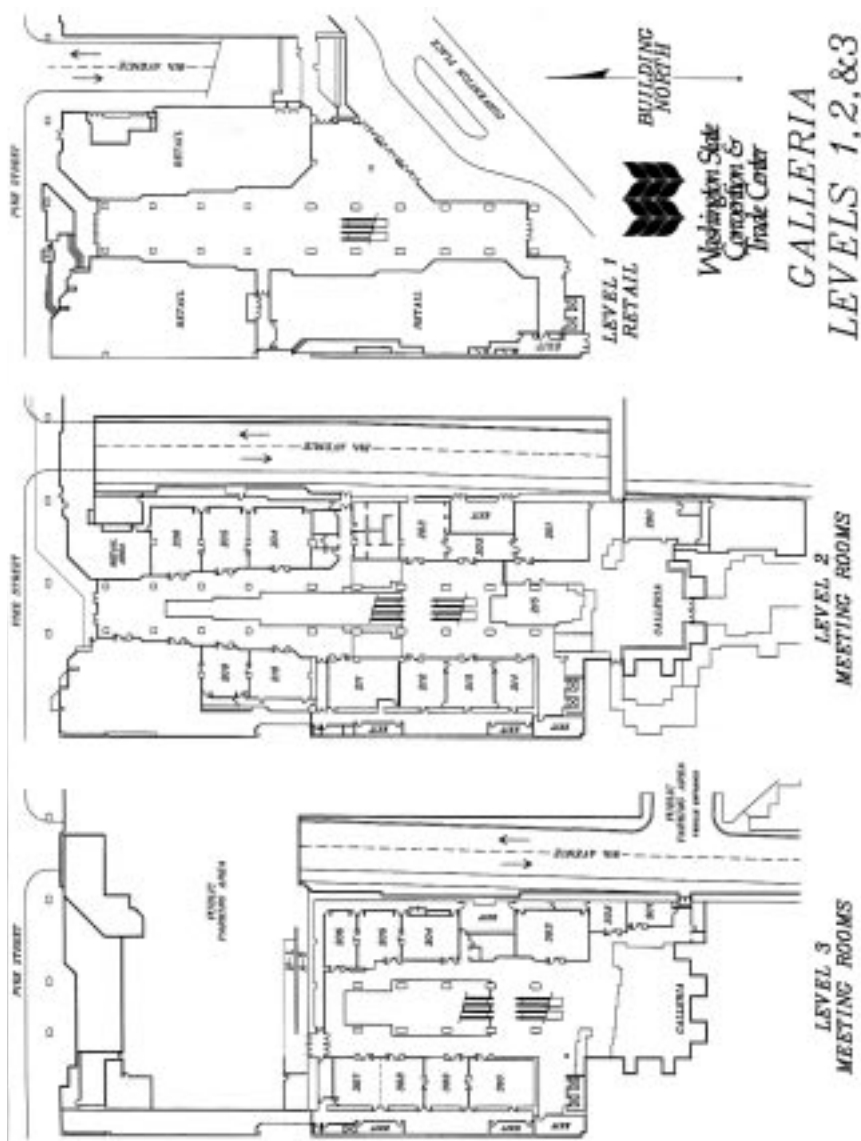
3rd AND 4th FLOOR PLAN

## Sheraton Seattle Hotel & Towers

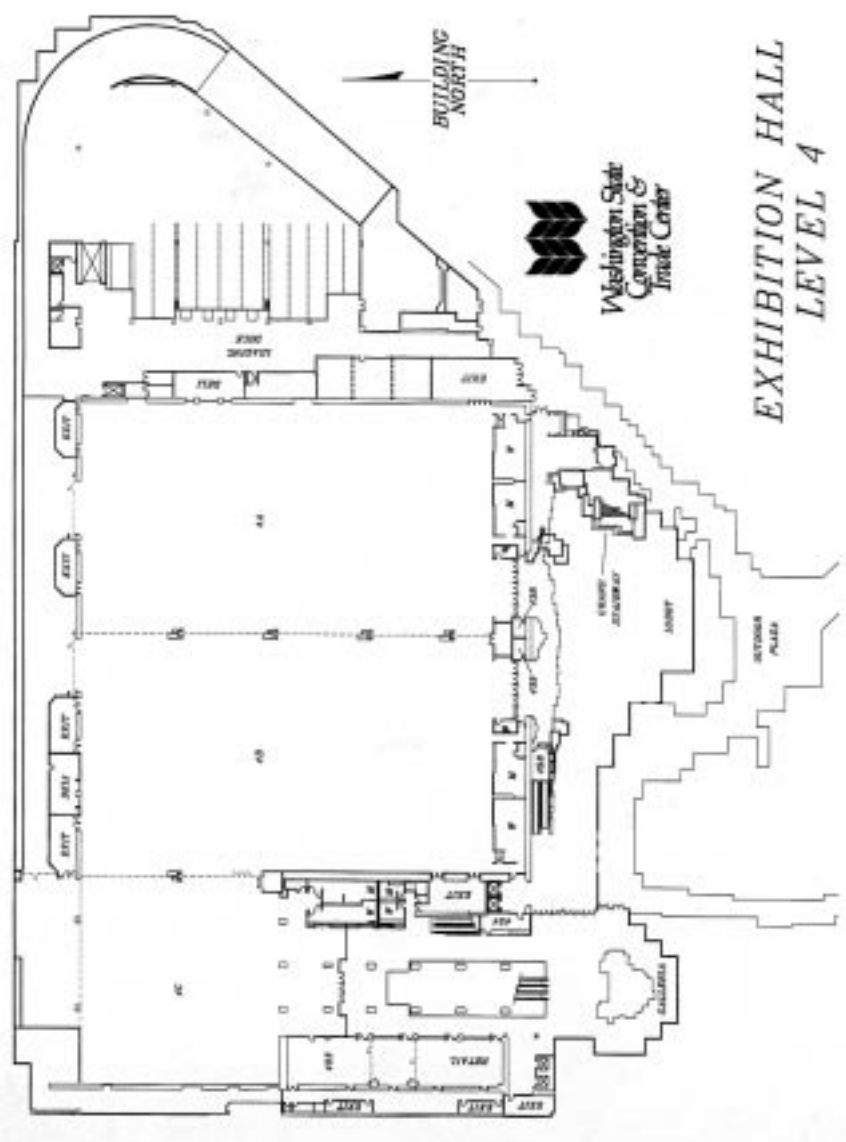


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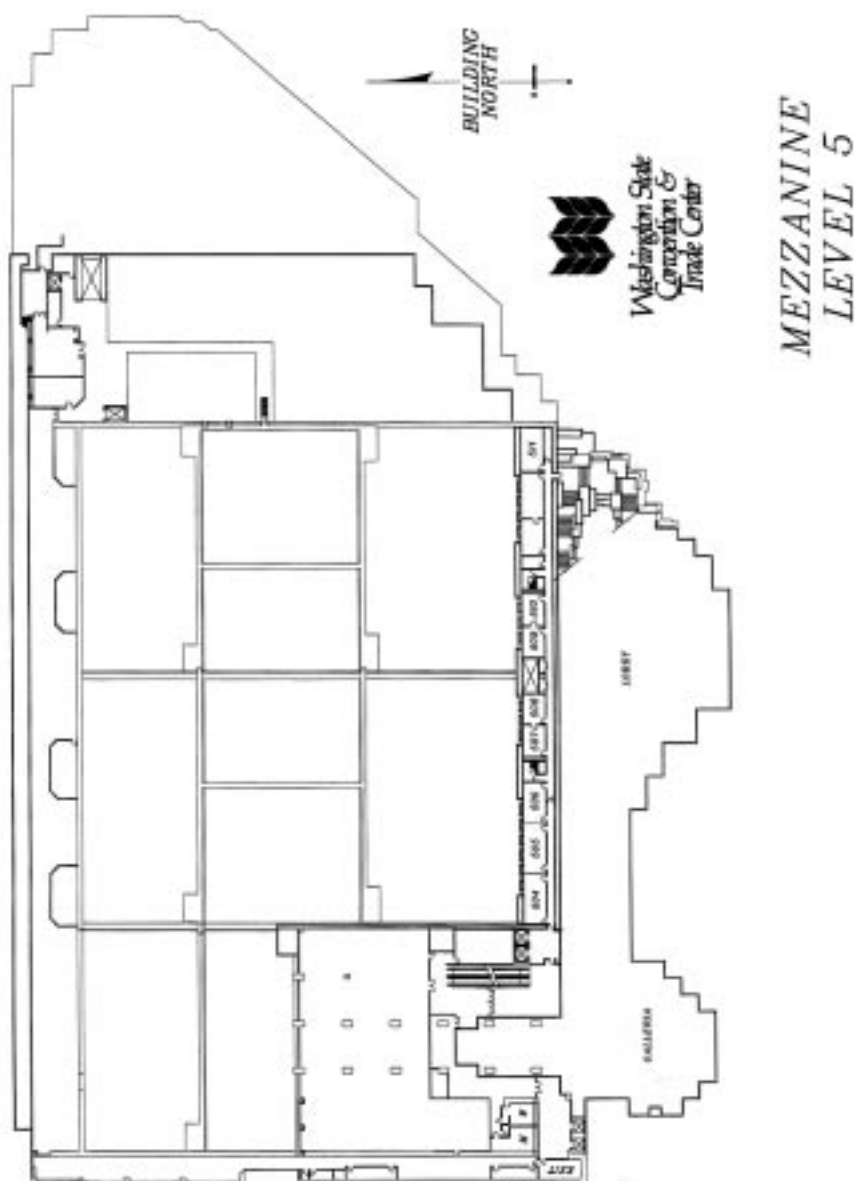
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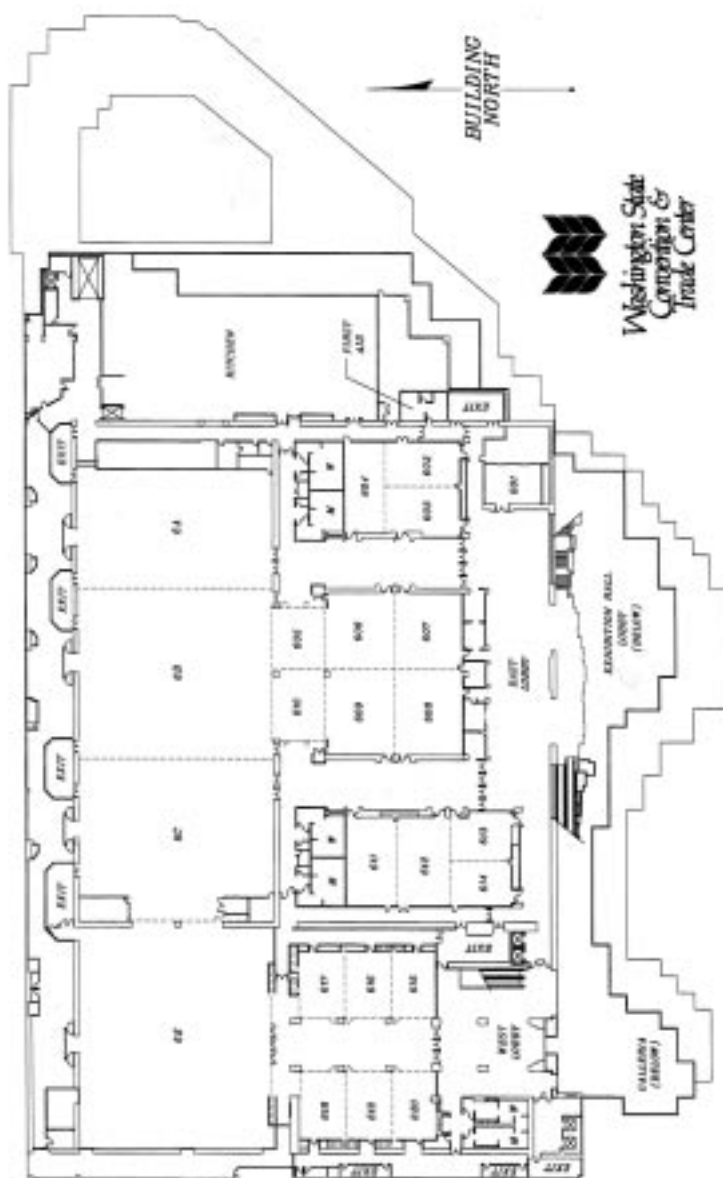
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## MEETING ROOMS LEVEL 6



1230 17th St. NW  
Washington, DC 20036-3078