### April 8, FRIDAY MORNING

**AERA Joint Committee on Annual Meeting Policies and Procedures and Research Advisory**  
8:00am – 12:00pm. Hyatt Regency / Capitol Ballroom 2  
Participant: Richard E. Mayer, UC Santa Barbara  

**NCME Session: Bayesian Networks in Educational Assessment – Training Session**  
8:00am – 5:00pm.  
Robert J. Mislevy, Educational Testing Service

### April 8, FRIDAY AFTERNOON

**Assessing the Academic Achievement of English Language Learners: Policy Lessons From California, Arizona, and Utah**  
12:00 – 1:30pm. Sheraton / Grand Couteau  
Investigating the Constructs of English Language Proficiency Assessments and English Language Learner Students’ Performance on the Assessments  
Presenter: Mikyung Kim Wolf, ETS  
Discussant: Jamal Abedi, UC Davis  

**Assessment and Instruction of Academic English Language Proficiency for English Language Learners**  
12:00 – 1:30pm. Doubletree / Rosedown A  
Developing a Defensible Foundation for English Language Proficiency Assessment: Challenges and Concerns With Academic Language Constructs  
Presenter: Alison Bailey, UCLA  
Co-author: Margaret Heritage, UCLA  

**Examining Literacy and Mathematical Implementation Issues and Challenges**  
2:15 – 3:45pm. Doubletree / International Ballroom  
Measuring Fidelity of Implementation: Methodological and Conceptual Issues and Challenges  
Presenter: Ellen Osmundson, UCLA  
Co-author: Joan Herman, UCLA and Yunyun Dai, UCLA  

**NCME Session: Communicating Assessment Results to Particular Audiences – Training Session**  
2:15 – 3:45pm. Doubletree / Rosedown A  
Discussant: Richard Mayer, UC Santa Barbara  

**Teacher Practices With At-Risk, Culturally, and Linguistically Different Students in Secondary Schools**  
2:15 – 3:45pm. Doubletree / International Ballroom  
The Formative Assessment of Academic Language and Science Learning With English Language Learners in Kindergarten  
Presenter: Alison Bailey, UCLA  

### Use of Assessment Results in Determining Student Promotion Decisions and School Accountability

2:15 – 3:45pm. Doubletree / International Ballroom  
Teacher and Student Perceptions of Accommodations for English Language Learners (ELLS) on Math Assessments: Do They Add Up?  
Presenter: Nichole Rivera, UCLA  

**NCME Session: Linking Mathematics Classroom Practices to Student Outcomes – Training Session**  
4:05 – 6:05pm. New Orleans Marriott / Preservation Hall  
Discussant: Hilda Borko, Stanford  

**Poster Session: Effects of Instructional Format on Learning**  
4:05 – 5:35pm. Sheraton / Grand Ballroom C  
The Role of Spontaneous Speech and Gestures in Improving Comprehension  
Presenter: Sarah Mayer, UCLA  

The Use of Narrative: Gender Differences and Implications for Motivation and Learning in a Game  
Presenter: Sarah Joy Bittick, UCLA  
Co-author: Greg Chung, UCLA  

**Poster Session: Motivation in Learning and Instruction**  
4:05 – 5:35pm. Sheraton / Grand Ballroom C  
The Effect of Rewarding Help Seeking on Learning and Game Performance  
Presenter: Girlic C. Delacruz  

**Invited Address: Assessment Challenges in Project-Based Learning**  
6:15pm. Astor Crowne Plaza / Bourbon  
Presenter: Joan Herman, UCLA  

### April 9, SATURDAY MORNING

**Computerized Adaptive Tests for Classification: Algorithms and Applications**  
8:15 – 10:15am. Westin / Azalea II  
Presenter: Robert Mislevy, ETS  

**Measuring Student Growth: New Advances and Major Challenges in the State Assessment Consortia Initiatives**  
8:15 – 10:15am. Sheraton / Napoleon Ballroom C3  
A Statistician’s Perspective on Consortia Approaches to Measuring Student Growth  
Presenter: Robert Linn, University of Colorado – Boulder  

**Construct-Irrelevant Sources Affecting Reading Assessments of Students With Disabilities**  
10:30 – 12:05pm. New Orleans Marriott / Mardi Gras Salon FGH  
Differential Item Functioning (DIF) Approaches in Determining Construct-Irrelevant Sources  
Presenter: Seth Leon, UCLA
Discriminant Analysis Approaches in Determining Construct-Irrelevant Sources  
Presenter: Jamal Abedi, UC Davis

The Role of Cognitive Features in Reading Assessments for Students with Disabilities  
Presenter: Jenny Kao, Teachers College, Columbia University

How Design Patterns Address Three Pressing Challenges in Large-Scale Assessment  
10:35 – 12:05pm. Sheraton / Grand Couteau
The Critical Role of Design Patterns in Large-Scale Assessment  
Presenter: Robert Mislevy, ETS

Measurement of Teacher Characteristics  
10:35am – 12:05pm. Doubletree / Crescent Ballroom
Chair: Jose Felipe Martinez, UCLA

Promising Practices of Out-of-School Programs: Supporting Science Education, Student Engagement, and Academic Outcomes  
10:35am – 12:05pm. Sheraton / Grand Ballroom E
Examining the Effectiveness of the California After School Safety and Enrichment for Teens (ASSETs) Programs  
Presenter: Denise Huang, UCLA

Assessing the Fit of Item Response Theory Models  
12:25pm – 1:55pm. Westin / Ballroom I
Presenter: Roy Levy, Arizona State University

Experiencing Learning and Motivation Through the Intersection of Technology and Pedagogy  
12:25 – 1:55pm. Sheraton / Grand Ballroom C
Effects of Gesture and Voice on Online Learning With Animated Pedagogical Agents  
Presenter: Richard Mayer, UC Santa Barbara

Invited NATD Measuring Teacher Effectiveness in a Comprehensive Teacher Evaluation System: Accurate, Equitable and Legally  
12:25 – 1:55pm. Westin / Ballroom II
Presenters: Margaret Heritage, UCLA and Pete Goldschmidt, UCLA

To Break Trend or Not, That is the Question  
12:25 – 1:55pm. Westin / Magnolia I
Discussant: Lorrie Shepard, University of Colorado – Boulder

Communications 101: Making an Impact With Your Research Through Effective Presentations, Social Media, and Writing  
1:00 – 5:00pm. Hotel Monteleone / Riverview
Director: Ron Dietel, UCLA

A Look at Our Psychometric History: Contributions of Cronbach, Lord, Novick, and Tucker  
2:15 – 3:45pm. Westin / Azalea I
Presenter: Robert Linn, University of Colorado – Boulder

Principled Assessment Design and Data Analysis for Diagnostic Assessments  
2:15 – 3:45pm. Astor Crowne Plaza / Grand Ballroom B
A Computational Framework for the Assessment and Instruction of Complex Tasks in Educational Games and Simulations  
Presenter: Markus Iseli, UCLA
Co-author: Richard Wainess, UCLA

The Feasibility of Using Cluster Analysis to Examine Log Data From Educational Video Games  
Presenter: Deirdre Kerr, UCLA
Co-author: Gregory Chang, UCLA

The Robert L. Linn Distinguished Address  
2:15 – 3:45pm. Doubletree / Madewood A
Using “Replacement Units” to Link Assessment With Instruction and Enable Research and Professional Development  
Presenter: Lorrie Shepard, University of Colorado – Boulder
Chair: Robert Mislevy, ETS

Division H Vice Presidential Session: Toward Formative Assessments Supporting Learning: Design, Validation, and Mediating Factors  
4:05 – 6:05pm. New Orleans Marriott / Mardi Gras Salon FGH
Chair: Joan Herman, UCLA

Design Parameters for Creating Short, Reliable, and Practical Formative Assessments  
Presenter: Yunyun Dai, UCLA
Co-author: Julia Phelan, UCLA

The Effects of a Formative Assessment Intervention on Student Understanding of Basic Mathematical Principles  
Presenter: Julia Phelan, UCLA
Co-author: Kilchan Choi, UCLA and Terry Vendlinski, UCLA

Relationships Between Teacher Knowledge, Assessment Practice, and Learning: Chicken, Egg, or Omelet?  
Presenter: Joan Herman, UCLA
Co-author: Ellen Osmundson, UCLA

Using Key Conceptual Ideas to Improve Teacher Use of Formative Assessment Data  
Presenter: Terry Vendlinski, UCLA
Co-authors: Kelly Turner and Diora Quach, UCLA

Validity and Formative Assessment: Documenting Claims for Learning Effects  
Presenter: Kilchan Choi, UCLA
Co-author: Joan Herman, UCLA
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What Teachers Learn From Formative Assessments and How They Use This Information to Guide Instruction
Presenter: Brian Stecher, RAND Corporation

Graduate Student Issues Committee: Translating Technical Material for Lay Audiences
4:05 – 6:05pm. Westin / Magnolia III
Presenter: Roy Levy, Arizona State University

Improving Educational Computer Game Design
4:05 – 5:35pm. New Orleans Marriott / La Galerie 1
Improving the Way We Design Games for Learning, by Examining How Popular Video Games Teach
Presenter: Richard Wainess, UCLA

The Impact of Player Control and Student Difference on Persistence in a Math Game
Presenter: Sarah Joy Bittick, UCLA
Co-authors: Daniel Parks, UCLA, and Greg Chung, UCLA

April 10, SUNDAY MORNING

NCME Breakfast, Business Meeting, and Presidential Address
8:00 – 10:30am. Sheraton / Armstrong
Participants: Lorrie Shepard, University of Colorado – Boulder and Robert Linn, University of Colorado - Boulder

Accessibility of Educational Environments: Supporting Students With Special Needs
8:15 – 10:15am. New Orleans Marriott / Preservation Hall Studio 2
Making Content-Based Assessment Accessible to English Language Learners
Presenter: Jamal Abedi, UC Davis

How to Build Learning Progressions: Formative Assessment's Basic Blueprints
8:15 – 9:45am. Doubltree / Madewood B
Presentation One
Presenter: Margaret Heritage, UCLA

Technology, Instruction, Cognition and Learning 3: Knowledge Maps for Representation of Higher-Order Cognitions: Potentials and Limitations From an International Perspective
8:15 – 10:15am. Sheraton / Napoleon Ballroom C2
Use of Knowledge Mapping in Computer-Based Assessment
Presenter: Harold O’Neil, University of Southern California

Division H Vice Presidential Session: Formative Assessment: International Perspectives and Applications
10:35am – 12:05pm. Doubltree / Madewood B
Discussant: Lorrie Shepard, University of Colorado – Boulder

Measuring and Developing Teacher Effectiveness: An Assessment of Research, Policy, and Practice
10:35am – 12:05pm. Sheraton / Napoleon Ballroom A2 & A3
Chair: Eva Baker, UCLA

April 10, SUNDAY AFTERNOON

AERA Past Presidents Luncheon: Invitation Only
12:25 – 1:55pm. New Orleans Marriott / Balcony K
Presenter: Eva Baker, UCLA; Hilda Borko, Stanford; Lorrie Shepard, University of Colorado – Boulder; Robert Linn, University of Colorado – Boulder.

Diverse Approaches to Teacher Performance Assessment and Their Validity Evidence
12:25 – 1:55pm. Sheraton / Grand Chenier
Discussant: Joan Herman, UCLA

Evaluating Multiple Indicators of Teacher Effectiveness: Toward a Robust Teacher Evaluation System
2:15 – 3:45pm. Doubletree / Rosedown B
Evaluating Multiple Indicators of Teacher Effectiveness: Toward A Robust Teacher Evaluation System
Presenter: Pete Goldschmidt, UCLA

Learning Science: Computer Games, Simulations, and Education – Learning from and Building on the 2011 National Research Council Report
2:15 – 3:45pm. Sheraton / Napoleon Ballroom B2
Chair: Eva Baker, UCLA

April 11, MONDAY MORNING

Designing Scenario-Based Assessment Items Using an Evidence-Centered Design Framework
8:00am – 12:00pm. Hotel Monteleone / Queen Anne Ballroom
Director: Robert Mislevy, ETS

Applications of Generalizability Theory in the Measurement of Instructional Practice
8:15 – 10:15am. Westin / Ballroom I
Presenter: Jose Felipe Martinez, UCLA

Experimenting to Support and Understand Teachers’ Learning on a Large Scale
8:15 – 9:45am. New Orleans Marriott / La Galerie 4
Designing an Instructional Leadership Model of Mathematics Professional Development in Local Contexts: A Study of Mutual Adaptation
Presenter: Hilda Borko, Stanford University

Understanding and Reducing Cognitive Load During Learning
8:15 – 9:45am. New Orleans Marriott / Mardi Gras Salon A
Chair: Richard Wainess, UCLA
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AERA Grants Program Governing Board: Closed Meeting
8:30am – 3:00pm. New Orleans Marriott / Balcony K
Participant: Eva Baker, UCLA

GSC Division H Fireside Chat: Reimagining Our Schools: An Exercise in Purposeful and Effective Evaluation
10:35 am – 12:05 pm. Sheraton / Oak Alley
Participant: Margaret Heritage, UCLA

Using Evidence to Take Action: Strategies Teachers Use to Deconstruct Student Work and Reteach
10:35 am – 12:05 pm. Sheraton / Oak Alley
Presenter: Margaret Heritage, UCLA

April 11, MONDAY AFTERNOON

AERA Distinguished Contributions to Research in Education Award (2010) Address: P. David Pearson
Session
12:25 – 1:55pm. Sheraton / Napoleon Ballroom C3
Chair: Robert Linn, University of Colorado – Boulder

NCME Past President’s Luncheon
12:25 – 1:55pm. Building / Room TBA
Presenters: Lorrie Shepard, University of Colorado – Boulder; Robert Linn, University of Colorado – Boulder

New Developments in Classroom Measurement: Conceptual, Methodological, and Policy Implications
12:25 – 1:55pm. Sheraton / Edgewood
Measuring Quality Assessment in Science Classrooms Through Artifacts and Self-Report
Presenter: Jose Felipe Martinez, UCLA
Chair: Joan Herman, UCLA

Hopes for and Realities of the Assessment Consortia
2:15 – 3:45pm. Sheraton / Napoleon Ballroom B3
Chair and discussant: Lorrie Shepard, University of Colorado – Boulder

Innovations in the Automated Scoring of Spoken Responses
2:15 – 3:45pm. Westin / Ballroom II
Presenter: Markus Iseli, UCLA

Language Demands of Content Assessments and Validity of Accommodations for English Language Learners
2:15 – 3:45pm. New Orleans Marriott / Mardi Gras Salon B
English Language Learners’ Test-Taking Processes Using a Glossary Accommodation
Presenter: Mikiyung Kim Wolf, ETS
Discussant: Jamal Abedi, UC Davis

April 12, TUESDAY MORNING

Multiple Dimensions of Educational Quality
8:15 – 9:45am. Sheraton / Grand Ballroom A
Testing to the Top: Accountability Policy for the Public Good?
Presenter: Ron Dietel, UCLA

STEM Teacher Development and Associated Practice
8:15 – 9:45am. Sheraton / Grand Ballroom D
The Dual Roles of the Linguistic and Mathematical Features of Pre-Algebra Explanations
Presenters: Alison Bailey, UCLA and Margaret Heritage, UCLA

Examining Student Engagement, Readiness, Accountability, Learning, and Collaboration With Classroom Response Systems
10:35am – 12:05pm. New Orleans Marriott / Preservation Hall Studio 9
Discussant: Richard Mayer, UC Santa Barbara
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Modeling Strategies in a Complex Automated Performance Assessment Environment
10:35am – 12:05pm. Doubletree / Madewood A
Challenges and Results in Large-Scale Complex Assessments
Chair and Co-author: Robert Mislevy, ETS

Data-Model Fit Assessment for Bayesian Networks for Simulation-Based Assessment
Presenter: Roy Levy, Arizona State University

WERA Session 3
10:35am – 12:05pm. Sheraton / Napoleon Ballroom C1
Chair: Eva Baker, UCLA

April 12, TUESDAY AFTERNOON

Principled Design of Simulation-Based Science Assessments
12:25 – 1:55pm. New Orleans Marriott / La Galerie 5
Discussant: Joan Herman, UCLA

Reconceptualizing Our Instructional Methods, Assessments, and Accountability Systems to Ensure Success for English Language Learners
12:25 – 1:55pm. Sheraton / Napoleon Ballroom B3
Participant: Jamal Abedi, UC Davis

Examinations of Learning in Computer Gaming Environments
2:15 – 3:45pm. New Orleans Marriott / Preservation Hall Studio 2
Is There an Advantage to Learning From Narrative Computer Games?
Presenter: Richard Mayer, UC Santa Barbara
Chair: Richard Wainess, UCLA