# CRESST Colleagues and Partners at AERA and NCME

April 26- May 1, 2013

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<thead>
<tr>
<th>April 26, FRIDAY</th>
<th>April 27, SATURDAY</th>
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<tr>
<td>NCME's Got Talent! How to Write, Present, and Tweet Like a Star (NCME) 8:00 a.m.-12:00 p.m., Intercontinental, EE</td>
<td>Bayesian Networks in Educational Assessment 8:00 am – 5:00 pm, Intercontinental/Twin Peaks</td>
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<tr>
<td>Participant: Ron Dietel, UCLA</td>
<td>Presenter: Robert Mislevy, University of Maryland</td>
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<tr>
<td>Division C Section 1d Poster Session 12:00pm – 1:30pm, Pare 55/Cyril Magnin Foyer</td>
<td>Science Literacy and Inquiry 12:00pm – 1:30pm, Pare 55/Cyril Magnin Foyer</td>
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<tr>
<td>The Impact of Measurement Error on the Estimation of Group-Level Treatment Effects</td>
<td>Designing Assessment to Measure Cumulative Learning of Energy Topics</td>
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<tr>
<td>Presenter: Jonathan Schweig, UCLA</td>
<td>Author: Marcia Linn, UC Berkeley</td>
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<tr>
<td>AERA Council of Editors: Closed Business Meeting 12:00pm – 2:00pm, Hotel Nikko/Nikko I</td>
<td>An Introduction to the Measurement and Analysis of Video Game Interaction Data (NCME) 1:00pm – 5:00pm, Intercontinental, PP</td>
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<tr>
<td>Participant: Jamal Abedi, UC Davis</td>
<td>Presenters: Greg Chung, UCLA, Rebecca Buschang, UCLA, Deidre Kerr, UCLA, Danny Parks, UCLA</td>
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<tr>
<td>Division C Section 3B Poster Session 2:15pm – 3:45pm, Pare 55/Cyril Magnin Foyer</td>
<td>Division C Section 3 Poster Session 12:00 pm, Intercontinental/Grand Ballroom A</td>
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<tr>
<td>Designing Critique Activities for Global Climate Change</td>
<td>Designing Critique Activities for Global Climate Change: A Comparison Study</td>
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<td>Instruction: A Comparison Study</td>
<td>Author: Marcia Linn, UC Berkeley</td>
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<tr>
<td>Author: Marcia Linn, UC Berkeley</td>
<td>CTE (Career and Technical Education) Research Findings Related to Postsecondary and Career Sustainability and Success</td>
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<tr>
<td>2:15pm –3:45pm, Pare 55/Mason</td>
<td>Health Science Capacity Building (HSCB) Students’ Experience and Confidence Related to Healthcare Careers</td>
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<td>Health Science Capacity Building (HSCB) Students’ Experience and Confidence Related to Healthcare Careers</td>
<td>Author: Robert Rueda, USC</td>
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<tr>
<td>Author: Robert Rueda, USC</td>
<td>April 28, SUNDAY</td>
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<tr>
<td>ECD from A to Z: Applying Evidence-Centered Design Across the Assessment Continuum (NCME) 8:00am – 9:45am, Intercontinental/Grand Ballroom A</td>
<td>Division C Section 3B Poster Session: Automated Scoring and Adaptive Guidance 8:15am – 10:15am, Parc 55/Cyril Magnin I</td>
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<tr>
<td>Discussant: Robert Mislevy, University of Maryland</td>
<td>Automated Scoring of Essays Using Essay-Derived Knowledge Maps</td>
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<tr>
<td>Author: Markus Iseli, UCLA, Greg Chung, UCLA, Eva Baker, UCLA</td>
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<tr>
<td>Author: Marcia Linn, UC Berkeley</td>
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<td>Using Multilevel Models and Approaches to Examine Relationships Between Teacher Effectiveness and Student Learning</td>
<td>Evaluation of Assessment and Guidance Technologies in the Context of Conceptual Physics Essay Writing</td>
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<td>8:15am –10:15am, Parc 55/Cyril Magnin II</td>
<td>Author: Kurt Vanlehn, University of Pittsburgh</td>
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<td>Multilevel Multivariate Analyses of Effects From Embedded Formative Assessment on Student Learning and Teacher Effectiveness</td>
<td>Using Multilevel Models and Approaches to Examine Relationships Between Teacher Effectiveness and Student Learning</td>
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<td>Authors: Joan Herman, UCLA, Yunyun Dai, UCLA, Ellen Osmundson, UCLA</td>
<td>Big Data: New Opportunities for Measurement &amp; Data Analysis (NCME) 10:00am –11:45am, Intercontinental/Grand Ballroom A</td>
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<tr>
<td>Presenter: Marcia Linn, UC Berkeley</td>
<td>Contrastting Design Models for Problem-Solving Processes: Guiding Learning and Assessment</td>
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<td>Author: Eva Baker, UCLA, Girlie Delacruz, UCLA</td>
<td>10:35am –12:05pm, Westin St. Francis/California East</td>
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<td>Author: Eva Baker, UCLA, Girlie Delacruz, UCLA</td>
<td>Using Multilevel Models and Approaches to Examine Relationships Between Teacher Effectiveness and Student Learning</td>
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<tr>
<td>10:35am –12:05pm, Parc 55/Powell II</td>
<td>The Public Body and Its Role in Constructing the Meaning of Student-Generated Representations</td>
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<td>Author: Noé Enyedy, UCLA</td>
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**April 26- May 1, 2013**

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<tr>
<th>April 28, SUNDAY (cont’d)</th>
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| **Journal of Educational and Behavioral Statistics Closed Management Committee Meeting**  
10:35am – 12:05pm, Hotel Nikko/Nikko I  
Participant: Michael Seltzer, UCLA  
AERA Past Presidents Luncheon: Invitation Only  
12:25pm – 1:55pm, Hotel Nikko/ Monterrey II  
Participant: Eva Baker, UCLA  
Meet Journal Editors: Journal Talks 3  
12:25pm – 1:55pm, Hilton Union Square/Imperial Ballroom A  
Review of Research in Education  
Author: Jamal Abedi, UC Davis  
Building a Multiple-Measure Evaluation and Support System: Preliminary Evidence and Lessons From the Los Angeles Unified School District  
12:25pm – 1:55pm, Parc 55/Divisadero  
Chair: Jose Felipe Martinez, UCLA  
Communicate! Communicate! Getting Your Research Out of the Dark Hole Through Social Media, Writing, and Working With Reporters  
1:00pm – 5:00pm, Grand Hyatt/Redwood  
Instructor: Ron Dietel, UCLA  
Argumentation Across the Disciplines  
2:15pm – 3:45pm, Westin St. Francis/Hampton  
Developing Text-Based Student Argumentation in Whole-Class Discussions About the Past  
Author: Abby Reisman, UCLA  
Schools Supporting Success: Exploring Aspects of Risk and Resilience  
2:15pm – 3:45pm, Sir Francis Drake/Empire  
The Importance of School Connectedness in Elementary School for Homeless Children  
Author: Kirby Chow, UCLA  
Extraordinary Pedagogies for Working Within School Settings Serving Nondominant Students: A New AERA Review of Research in Education (RRE) Publication  
2:15pm – 3:45pm, Hilton Union Square/Continental 8  
Presenter: Jamal Abedi, UC Davis  
Intelligent Tutoring and Automatic Feedback Systems  
2:15pm – 3:45pm, Hilton Union Square/Tower 3 Union Square 21  
Comparing the Benefits of Automated and Teacher Feedback on Student-Generated Molecular Representations  
Author: Marcia Linn, UC Berkeley  
Everything Changes: Implementing Evidence-Centered Design to Address Large-Scale Assessment Challenges  
2:15pm – 3:45pm, Parc 55/Divisadero  
Discussant: Robert Mislevy, University of Maryland  |  
The Alignment of the Common Core State Standards and English Language Proficiency Standards for ELLs  
4:05pm – 5:35pm, Hilton Union Square/Golden Gate 8  
Implications of the Common Core State Standards for English Language Development/Proficiency (ELD/P) Standards  
Author: Alison Bailey, UCLA  
Places and Spaces of (Dis)empowerment and Agency  
4:05pm – 6:05pm, Westin St. Francis/Essex  
Addressing the Fragility of School Settings in Brazil’s Favelas  
Author: Rolf Straubhaar, UCLA  
Invited Presentation – Classroom Assessment SIG  
6:15pm – 7:45pm, Hilton Union Square/Golden Gate 6  
Presenter: Margaret Heritage, UCLA  
UCLA and CRESST Reception at AERA  
7-10 p.m. Westin St. Francis/California East  |
| Cognition and Assessment Roundtable  
8:15am – 9:45am, Hilton Union Square/Imperial Ballroom A  
Using Analysis of Student Strategies to Improve Educational Video Game Designs  
Author: Deirdre Kerr, UCLA, Greg Chung, UCLA  
Improving Assessments, Improving Outcomes: Synthesizing Research Strands  
8:15am – 9:45am, Hilton Union Square/Imperial Ballroom A  
Exploring the Relationship Between Classroom Assessment Practices and Student Outcomes Through Student Survey Responses  
Author: Daniel Dockerman, UCLA, Rebecca Luskin, UCLA, Jose Felipe Martinez, UCLA  
AERA Journal Publications Committee and Journal Editors: Closed Meeting  
8:15am – 9:45am, Hotel Nikko/Nikko I  
Participant: Jamal Abedi, UC Davis  
Learning and Teaching in Secondary Science  
8:15am – 9:45am, Hilton Union Square/Tower 3 Union Square 21  
Generating Versus Reading Explanations: Helping Students Distinguish Among Ideas in Dynamic Visualizations  
Author: Marcia Linn, UC Berkeley  
MIRT (NCME)  
10:30am – 12:15pm, Intercontinental/Union Square  
Discussant: Li Cai, UCLA  
Developing Classroom Observation Protocols to Support Improved Formative Assessment Practice  
10:35am – 12:05pm, Parc 55/Stockton  
Discussant: Margaret Heritage, UCLA  
Educational Researcher Closed Editorial Board Meeting  
10:35am – 12:05pm, Hotel Nikko/Nikko II  
Participant: Li Cai, UCLA  |
April 29, MONDAY (cont’d)

Poverty and Student Academic Performance: A Focus on Dropouts, Assessment, and Policies
10:35am – 12:05pm. Hilton Union Square/Continental 9
Chair: Jamal Abedi, UC Davis

National Science Foundation Priorities and Perspectives
10:35am – 12:05pm. Hilton Union Square/Continental 7
Discussant: Marcia Linn, UC Berkeley

AERA Awards Ceremony Luncheon
12:25pm – 2:25pm. Hilton Union Square/Continental 4-6
E.F. Linquist Award Recipient: Eva Baker, UCLA

IGNITE: Access to Knowledge in the Age of Social Media
2:45pm – 4:15pm. Hilton Union Square/Plaza A
Strategies for Communicating Research
Author: Ron Dietel, UCLA

Perspectives on “Language-as-Resource” in English Learner Policies, Assessments, Programs, and State-Level Administration
2:45pm – 4:15pm. Hilton Union Square/Tower 3 Powell
Language-as-Resource in English Learner Assessment Systems: Evaluating the Fit of Classification Models
Author: Alison Bailey, UCLA

Educational Evaluation and Policy Analysis Closed Editorial Board Meeting
2:45pm – 4:15pm. Hotel Nikko/Nikko II
Participant: Jose Felipe Martinez, UCLA

The Gordon Commission: Perspectives on the Future of Assessment
2:45pm – 4:15pm. Hilton Union Square/Yosemite B
Participant: Eva Baker, UCLA

April 30, TUESDAY

Advances in Analysis of Process Data from Game-Based Assessments (NCME)
8:00am – 9:45am. Intercontinental/Union Square
Presenter: Deirdre Kerr, UCLA

Motivations and Mechanisms for Fostering Bilingualism: Family and Teacher Perspectives
8:00am – 9:30am. Hilton Union Square/Tower 3 Mason
The Motivations and Mechanisms of Parents and Teachers Fostering Multilingualism in U.S. Children
Author: Alison Bailey, UCLA

Methodological Issues in Survey Research
8:00am – 9:30am. Parc 55/Divisadero
How to Say N/A: Illuminating Survey Responses Using Missing Data Patterns and Latent Class Modeling
Author: Roy Levy, Arizona State University

Culturally Relevant Computer Science: Pathways to Broadening Participation
8:00am – 10:00am. Hilton Union Square/Tower 3
Union Square 19 and 20
Discussant: Marcia Linn, UC Berkeley

April 30, TUESDAY (cont’d)

Instructional Technologies for Teaching and Learning Mathematics
8:00am – 10:00am. Sir Francis Drake/Tudor AB
Learning Decimals From Erroneous Examples With an Online Tutor
Author: Richard Mayer, UC Santa Barbara

Games and Assessment: Psychometrics Meets Fun
10:00am – 11:45am. Intercontinental/Grand Ballroom B
Presenter: Robert Mislevy, University of Maryland

Overcoming Common Barriers to Research Use
10:20am – 11:50am. Sir Francis Drake/Empire
Overcoming Common Barriers to Research Use: Writing, Speaking, Social Media, Working with Reporters, and Taking a Risk
Author: Ron Dietel, UCLA

Division D Section 1 Poster Session: Educational Measurement, Psychometrics, and Assessment
10:20am – 11:50am. Parc 5/55 Magnin Foyer
Analyses of Differential Item Functioning (DIF) of English Language Learners and English-Only Students Using Multilevel Models
Author: Moonsoo Lee, UCLA, Nami Shin, UCLA

Measurement Issues in Survey Research
10:20am – 11:50am. Parc 5/Divisadero
Leveraging Factor Analysis and Item Response Theory Approaches in Analyzing a Large-Scale Student Satisfaction Survey
Author: Roy Levy, Arizona State University

Evaluating Approaches for Addressing Missing Data
12:10pm – 1:40pm. Sir Francis Drake/Emperor
Treatment-Confounded Missingness: A Comparison of Methods for Addressing Censored or Truncated Data in School Reform Evaluations
Author: Jia Wang, UCLA, Jordan Rickles, UCLA

Enriched Learning Environments: Multimedia and Embodiment
12:10pm – 1:40pm. Westin St. Francis/Colonial
Metacomprehension Accuracy of Judgments of Understanding During Multimedia Learning
Author: Richard Mayer, UC Santa Barbara

At the Crossroads of Technology Integration, Students’ Scaffolding, and Online Education
12:10pm – 1:40pm. Parc 55/Haight
Technology Integration to Scaffold and Assess Students’ Use of Visual Evidence in Science Inquiry.
Author: Marcia Linn, UC Berkeley

Exploring Issues and Opportunities in Assessing English Learners’ Language Proficiency and Academic Content Knowledge Using Next-Generation Assessments (NCME)
12:15pm – 2:00pm. Intercontinental/Telegraph Hill
Presenter: Jamal Abedi, UC Davis, Alison Bailey, UCLA
CRESST Colleagues and Partners at AERA and NCME
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April 30, TUESDAY (cont’d)

Education Research in a Changing World Sponsored by WERA
2:00pm – 3:30pm. Hilton Union Square/Continental 8
Participant: Eva Baker, UCLA

The Role of Formalized Tools in Formative Assessment
2:00pm – 3:30pm. Hilton Union Square/Golden Gate 6
Chair, Discussant: Margaret Heritage, UCLA

How Teacher Human Capital Is Affected by Policy Decisions and Contexts
2:00pm – 3:30pm. Hilton Union Square/Tower 3 Union Square 10
Author: Kevin Schauf, UCLA, Jose Felipe Martinez, UCLA

International Handbook of Research in Environmental Education (HREE): A New AERA Publication
2:00pm – 3:30pm. Hilton Union Square/Yosemite B
Discussant: Marcia Linn, UC Berkeley

A Look at Our Psychometric History: Contributions of Thurstone, Lindquist, Anastasi, Bock, Messick, and Holland (NCME)
2:30pm – 4:15pm. Intercontinental/Grand Ballroom A
Presenter: Li Cai, UCLA

Theories of Action for Performance Assessment: Impact Research and Prospects for Next Generation Assessment Programs
2:30pm – 4:15pm. Intercontinental/Union Square
Discussant: Joan Herman, UCLA

The Future of Psychometrics: Bridging the Gap Between Traditional and Burgeoning Measurement Theory
2:30pm – 4:15pm. Intercontinental/Grand Ballroom B
Discussant: Robert Mislevy, University of Maryland

American Educational Research Journal (Teaching, Learning, and Human Development) Closed Editorial Board Meeting
7:15pm – 8:45pm. Hotel Nikko/Nikko I
Participant: Eva Baker, UCLA, Robert Rueda, USC

Cognition and Assessment SIG Business Meeting and Poster Session
7:15pm – 8:45pm. Hilton Union Square/Continental 5
Perception of Math Content in an Educational Video Game
Author: Deirdre Kerr, UCLA

MAY 1, WEDNESDAY

Use of Multilevel Modeling to Address Design Issues
8:15am – 9:45am. Parc 55/Mission II & III
A Two-Stage Propensity Score Matching Strategy to Estimate Treatment Effects in a Multisite Observational Study
Author: Jordan Rickles, UCLA

MAY 1, WEDNESDAY (cont’d)

Dialogue, Feedback, and Debate in Learning Environments
8:15am – 9:45am. Hilton Union Square/Tower 3 Union Square 6
What Kind of Feedback Improves Understanding? A Comparison of Knowledge Integration and Generic Feedback on Students’ Scientific Explanations
Author: Marcia Linn, UC Berkeley

AERA Open Business Meeting
8:15am – 9:45am. Hilton Union Square/Continental 7
Participant: Robert Rueda, USC

Developing and Using Language Learning Progressions for Improved Instruction and Assessment of English Language Learners
10:35am – 12:05pm. Parc 55/Powell II
Using a Dynamic Language Learning Progression for Instruction and Formative Assessment
Author: Margaret Heritage, UCLA, Sandy Chang, UCLA

The Use of Computer Technology in Support of Language Progression Development
Author: Barbara Jones, UCLA, Ali Abedi, UCLA, Markus Iseli, UCLA,

The Conceptualization and Theoretical Underpinnings of Dynamic Language-Learning Progressions
Author: Alison Bailey, UCLA

Promoting Academically Productive Student Dialogue: International Perspectives on the Role of Teacher Practices
10:35am – 12:05pm. Grand Hyatt/Belvedere
The Teacher’s Role in Promoting Productive Student Dialogue in Elementary Mathematics Classrooms
Author: Nami Shin, UCLA

Latent Variable Models: Explorations and Investigations
10:35am – 12:05pm. Parc 55/Mission I
Accuracy of Revised Parallel Analysis for Assessing Dimensionality With Ordered Categorical Response Data
Author: Roy Levy, Arizona State University

Challenges and Opportunities for Language Learning in the Context of the Common Core State Standards and the Next Generation Science Standards
12:25pm – 1:55pm. Hilton Union Square/Yosemite B
Formative Assessment as Contingent Communication: Perspectives on Assessment as and for Language Learning in the Content Areas
Author: Margaret Heritage, UCLA
MAY 1, WEDNESDAY (cont’d)

Measuring the Classroom Environment Through Student Surveys: Methodological, Conceptual, and Policy Issues
12:25pm – 1:55pm. Hilton Union Square/Tower 3
Union Square 5
Discussant: Li Cai, UCLA

Quality Assessment Practice Within-and Between-Classrooms: Investigating Invariance and Cross-Level Relationships
Author: Daniel Dockterman, UCLA, Rebecca Luskin, UCLA, Jose Felipe Martinez, UCLA

Cross-Level Measurement Invariance in School and Classroom Environmental Variables
Author: Jonathan Schweig, UCLA

Measuring Effective Teacher-Student Interactions From a Student Perspective: A Multilevel Analysis
Author: Jonathan Schweig, UCLA, Jose Felipe Martinez, UCLA

Using Visual and Spatial Thinking in Science Education
12:25pm – 1:55pm. Hilton Union Square/Tower 3
Union Square 23 and 24

Meta-Analysis of the Benefits of Dynamic and Static Visualizations for Science Learning
Chair: Author: Marcia Linn, UC Berkeley

How Does Traditional Science Education Assess Visual and Spatial Thinking?
Author: Marcia Linn, UC Berkeley

Division C Section 3b Poster Session: Technology-Mediated Learning
12:25pm – 1:55pm. Park 55/Cyril Magnin Foyer

Metacognitive Prompting During Gameplay: A Value-Added Approach
Author: Richard Mayer, UC Santa Barbara

Impact of an Embedded Assessment System on Elementary Science Teaching and Learning: Power and Promise
2:15pm – 3:45pm. Hilton Union Square/Tower 3
Union Square 23 & 24

Teachers’ Use of an Embedded Assessment System: Impact on Teacher Knowledge and Practices
Author: Joan Herman, UCLA, Yunyun Dai, UCLA, Ellen Osmundson, UCLA

Multilevel Analysis of an Embedded Assessment System: Methodological Approaches
Author: Joan Herman, UCLA, Yunyun Dai, UCLA, Ellen Osmundson, UCLA

Supporting STEM Reform-Based Instruction
2:15pm – 3:45pm. Hilton Union Square/Continental 7
Discussant: Jia Wang, UCLA

MAY 1, WEDNESDAY (cont’d)

The Intersect of Social and Emotional Learning with Academic Achievement: Perspectives From Research and Practice (Symposium)
2:15pm – 3:45pm. Park 55/Cyril Magnin II
Discussant: Harry O’Neil, USC

Integrating Assessment of Social and Emotional Learning Into an Early Childhood Science Learning Contexts
Author: Noelle Griffin, UCLA, Ayesha Madni, UCLA