Established in 1946, with headquarters in Washington, D.C., the American Institutes for Research (AIR) is an independent, nonpartisan not-for-profit organization that conducts behavioral and social science research and evaluation on important social issues and provides technical assistance, both domestically and internationally, in the areas of education, health and workforce productivity.

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Meet Us at AERA

Nearly 100 experts are representing AIR during this year’s annual AERA meeting in Toronto, Ontario, Canada. This booklet tells you where you can meet AIR experts at various conference proceedings.

AIR is one of the world’s largest behavioral and social science research and evaluation organizations. Our overriding goal is to use the best science available to bring the most effective ideas and approaches to enhancing everyday life. For us, making the world a better place is not wishful thinking: It is the goal that drives us.

We welcome you to attend one of the many sessions in which our staff are participating.

ABOUT THIS BOOKLET

For your convenience, this booklet is organized in two sections. The first section lists presentations by date and time. The second section lists presentations by topic. AIR staff are listed alphabetically.
Index of Presentations by Date and Time

Thursday, April 4

8:00 am – 12:00 pm

**NAEP Response Process Data**
*Fairmont Royal York Hotel, NCME—Salon A*
Instructors: Ruhan Circi, Fusun Sahin, Xiaying Zheng
Session: Training Session

9:00 am – 5:00 pm

**Analyzing Data From International Large-Scale Assessments Using R**
*Metro Toronto Convention Centre, 700 Level, Room 711*
Instructors: Paul Dean Bailey, Ebru Erberber, Ting Zhang
Session: Professional Development Course

**Multilevel Modeling With Large-Scale International Databases Using the HLM Software Program**
*Metro Toronto Convention Centre, 700 Level, Room 716B*
Instructors: Martin Hooper, Sakiko Ikoma, Mengyi Li, David C. Miller, Yuan Zhang
Session: Professional Development Course

Friday, April 5

8:00 am – 4:00 pm

**Advanced Meta-Analysis**
*Metro Toronto Convention Centre, 700 Level, Room 715B*
Instructor: Ryan Williams
Session: Professional Development Course

8:00 am – 5:00 pm

**Fitting Multilevel Models to ECLS Data Using R**
*Metro Toronto Convention Centre, 700 Level, Room 713B*
Instructors: Paul Dean Bailey, Claire Kelley, Shannon Russell, Ting Zhang
Session: Professional Development Course

12:00 pm – 1:30 pm

**International Perspectives on School Climate and Student and Teacher Engagement**
*Metro Toronto Convention Centre, 200 Level, Room 203B*
Discussant: David Osher

**Teachers’ Perceptions of School Climate and Teacher Job Satisfaction: A Multilevel Analysis**
*Metro Toronto Convention Centre, 200 Level, Room 203B*
Presenter/Author: Yuting Li
Session: International Perspectives on School Climate and Student and Teacher Engagement
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*Metro Toronto Convention Centre, 800 Level, Hall G*

**Presenter/Author:** Joshua Polanin

**Session:** Meta-Analysis in Education: Innovative Methods and Applications

Multigroup Cognitive Diagnostic Joint Modeling of Responses and Response Time

*Fairmont Royal York Hotel, Main Floor, NCME—Imperial Room*

**Presenter/Author:** Dandan Liao

**Session:** Electronic Board Session 1

Technology to Support English Learners in Community Colleges

*Metro Toronto Convention Centre, 700 Level, Room 709*

**Presenter/Author:** Rebecca Bergey, Ann-Marie Faria, Alex Lishinski, Ashley Simpson Baird

**Session:** English Language Learners in Community Colleges: Challenges and Opportunities

What Is Changing in the Classroom Internationally?: Measuring innovation for Improvement

*Metro Toronto Convention Centre, 200 Level, Room 205D*

**Participant:** Sean P. “Jack” Buckley

Comparing Multiple Disability Groups in Alternate Assessments Using Differential Item Functioning

*Fairmont Royal York Hotel, Main Floor, NCME—Imperial Room*

**Presenter/Author:** Fusun Sahin

**Session:** GSIC Graduate Student Poster Session 1

Access to Accelerated Mathematics Course-Taking in Middle School and Beyond

*Sheraton Centre Toronto Hotel, Mezzanine, Chestnut West*

**Chair:** Nicholas Sorensen

**Discussant:** Kirk Walters

Construction of an Item Response Theory-Based Socioeconomic Status Index for NAEP 2003–2017

*Fairmont Royal York Hotel, Main Floor, NCME—Imperial Room*

**Presenters/Authors:** Yifan Bai, Markus Broer

**Session:** Electronic Board Session 2
Does Readiness for Eighth-Grade Algebra Matter? A Quasi-Experimental, Multisite Analysis of Short- and Longer Term Outcomes
Sheraton Centre Toronto Hotel, Mezzanine, Chestnut West
Presenters/Authors Whitney Cade, Ryan Eisner, Jordan Rickles, Nicholas Sorensen, Kirk Walters
Session Access to Accelerated Mathematics Course-Taking in Middle School and Beyond

Do NAEP Long-Term Trend Mathematics and Program for the International Assessment of Adult Competencies Numeracy Measure a Similar Construct? An Indirect Approach
Fairmont Royal York Hotel, Convention Floor, Concert Hall
Presenters/Authors Markus Broer, Sakiko Ikoma, Thomas Sun, Xiaying Zheng
Session Using NAEP to Understand Student Course-Taking, Digital-Based Assessment Performance, and Assessment Construct Similarities

Examining the Relationship Between STEM Course-Taking in High School and Grade 12 NAEP Mathematics Scores
Fairmont Royal York Hotel, Convention Floor, Concert Hall
Presenters/Authors George Bohrnstedt, Markus Broer, Burhan Ogut, Darrick Yee
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Mapping Background Variables with Sequential Patterns in Problem-Solving Tasks
Fairmont Royal York Hotel, Convention Floor, NCME—Ballroom
Presenter/Author Dandan Liao
Session Advanced Psychometrics for Process Data Analysis in Large-Scale Assessments

Mathematics Course-Taking Pathways for Joining STEM in College
Sheraton Centre Toronto Hotel, Mezzanine, Chestnut West
Presenter/Author David I. Miller
Session Access to Accelerated Mathematics Course-Taking in Middle School and Beyond

New Measures of Digital Technology Access and Familiarity and Their Relationship With NAEP Performance
Fairmont Royal York Hotel, Convention Floor, Concert Hall
Presenters/Authors George Bohrnstedt, Sami Kitmitto, Bitnara Jasmine Park
Session Using NAEP to Understand Student Course-Taking, Digital-Based Assessment Performance, and Assessment Construct Similarities
Saturday, April 6
2:15 pm – 3:45 pm

Positive Impact of Early College High Schools: Exploring the Mediating Role of High School Experience
*Sheraton Centre Toronto Hotel, Second Floor, Kenora*
Presenters/Authors: Mengli Song, Kristina Zeisser
Session: Investigating the Outcomes of Dual Enrollment Programs

Practical Implications of Two Combined Subtests in Subscore Reporting in Multidimensional Item Response Theory
*Fairmont Royal York Hotel, Main Floor, NCME—Imperial Room*
Presenter/Author: Yoon-Jeong Kang
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The Role of Identity-Based Motivation in Teachers’ Advanced Math Course Placement Decisions
*Sheraton Centre Toronto Hotel, Mezzanine, Chestnut West*
Presenters/Authors: Ryan Eisner, Nicholas Sorensen, Kirk Walters
Session: Access to Accelerated Mathematics Course-Taking in Middle School and Beyond

Transitions Into the Labor Force: Examining U.S. Young Adults by Student and Employment Status
*Sheraton Centre Toronto Hotel, Mezzanine Level, Cedar*
Presenter/Author: Emily Pawlowski
Session: What Skills Are Key to Labor Force Success? Results From PIAAC

Understanding Reading Motivation and Reading Achievement Gaps: The Case of NAEP
*Fairmont Royal York Hotel, Convention Floor, Concert Hall*
Presenters/Authors: George Bohrnstedt, Markus Broer, Mengyi Li, Bitnara Jasmine Park, Darrick Yee, Jizhi Zhang
Session: Using NAEP to Understand Student Course-Taking, Digital-Based Assessment Performance, and Assessment Construct Similarities

What Skills Are Key to Labor Force Success? Results From PIAAC
*Sheraton Centre Toronto Hotel, Mezzanine Level, Cedar*
Chair: Katie Herz
Discussant: Jaleh Soroui

Who Is Not Digitally Literate in the United States?
*Sheraton Centre Toronto Hotel, Mezzanine Level, Cedar*
Presenter/Author: Saida Mamedova
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*Sheraton Centre Toronto Hotel, Second Floor, Provincial Ballroom North*  
Participant: Bradley Quarles |
| Saturday, April 6 4:10 pm – 6:10 pm | Automated Scoring Validity Research for a National Large-Scale Writing Assessment  
*Fairmont Royal York Hotel, Convention Floor, NCME—Ballroom*  
Discussant: Sue Lottridge |
| | English Learners in STEM Subjects: Transforming Classrooms, Schools, and Lives—A Report From the National Academies of Science, Engineering, and Medicine  
*Metro Toronto Convention Centre, 100 Level, Room 104B*  
Commentator: Diane August |
| | Exploring Perceived Time Pressure and Speededness Using NAEP Process Data  
*Fairmont Royal York Hotel, Mezzanine, NCME—British Columbia*  
Presenters/Authors: Juanita Hicks, Cheng Shuang Ji, Fusun Sahin |
| | Session: The Need for Speed? Practical Assessment Implications |
| | Regional Educational Laboratory Midwest Support for Minnesota Department of Education’s Teacher Supply and Demand Study  
*Fairmont Royal York Hotel, Mezzanine, Tutor 7*  
Presenters/Authors: Steve Dibb, James Lindsay, Yinmei Wan |
| | Session: Conducting Studies of Teacher Mobility and Retention in Partnership With State and Local Education Agencies |
| | Regional Educational Laboratory Southwest Study of Teacher Mobility in Texas Schools  
*Fairmont Royal York Hotel, Mezzanine, Tutor 7*  
Presenters/Authors: Elizabeth Barkowski, Shannon Lasserre-Cortez, James Lindsay |
| | Session: Conducting Studies of Teacher Mobility and Retention in Partnership With State and Local Education Agencies |
| | Registries, Registered Reports, Research Reporting and Enhancing Education Research Transparency  
*Metro Toronto Convention Centre, 100 Level, Room 104C*  
Participant: Larry Hedges (AIR Institute Fellow) |
| | Session: AERA Sessions |
**Sunday, April 7**

**8:00 am – 9:30 am**

**AERA Government Relations Committee: Closed Meeting**  
*InterContinental Toronto Centre, Upper Lobby, Caledon*  
Participant: Sean P. “Jack” Buckley

**A Longitudinal Study of Families’ Use of a Public School Choice Lottery System**  
*Metro Toronto Convention Centre, 800 Level, Hall G*  
Presenters/Authors: Megan Austin, Kirk Walters, Rui Yang  
Session: MTCC Roundtable: Research on School Choice: Choosing and Recruiting

**English Learners’ Acquisition of Academic Vocabulary: Instruction Matters, but So Do Word Characteristics**  
*Sheraton Centre Toronto Hotel, Second Floor, Provincial Ballroom North*  
Presenters/Authors: Lauren Artzi, Diane August  
Session: Learning Vocabulary in a Second Language: Exploring Challenges and Opportunities Across Levels of Development and Proficiency

**Sunday, April 7**

**9:55 am – 11:25 am**

**Arts and Accessibility: What Influence Does Research Have?**  
*Sheraton Centre Toronto Hotel, Second Floor, City Hall—Working Group*  
Chair: Meredith Ludwig

**Creating a Dynamic Inventory of Arts Policies and Research**  
*Sheraton Centre Toronto Hotel, Second Floor, City Hall—Working Group*  
Presenter/Author: Andrea Boyle  
Session: Arts and Accessibility: What Influence Does Research Have?

**Implementing Improvement Science as a Problem-Finding Technique**  
*Sheraton Centre Toronto Hotel, Second Floor, City Hall—Working Group*  
Presenter/Author: Meredith Ludwig  
Session: Arts and Accessibility: What Influence Does Research Have?
Sunday, April 7
10:20 am – 11:50 am

**Applying CUSUM-Based Person Fit Statistics to Detect Speededness**  
*Fairmont Royal York Hotel, Mezzanine, NCME—Alberta*

Presenter/Author: Xiaying Zheng

Session: Evaluating Test Speededness in NAEP Digitally Based Assessments

**Comparison of Results From Three Methods and Discussion**  
*Fairmont Royal York Hotel, Mezzanine, NCME—Alberta*

Presenter/Author: Xiaying Zheng

Session: Evaluating Test Speededness in NAEP Digitally Based Assessments

**Conceptual Framework and Overview of Speededness in NAEP**  
*Fairmont Royal York Hotel, Mezzanine, NCME—Alberta*

Presenter/Author: Young Yee Kim

Session: Evaluating Test Speededness in NAEP Digitally Based Assessments

**Detecting Speededness Using Change Point Analysis on Response Data**  
*Fairmont Royal York Hotel, Mezzanine, NCME—Alberta*

Presenter/Author: Xiaying Zheng

Session: Evaluating Test Speededness in NAEP Digitally Based Assessments

**Detecting Speededness Using Change Point Analysis on Response Time**  
*Fairmont Royal York Hotel, Mezzanine, NCME—Alberta*

Presenter/Author: Xiaying Zheng

Session: Evaluating Test Speededness in NAEP Digitally Based Assessments

**Evaluating Test Speededness in NAEP Digitally Based Assessments**  
*Fairmont Royal York Hotel, Mezzanine, NCME—Alberta*

Chair: Fusun Sahin

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**Accounting for Student Attrition in Power Calculations: Benchmarks and Guidance**  
*Metro Toronto Convention Centre, 300 Level, Hall C*

Presenter/Author: Jordan Rickles

Session: Statistical Theory and Quantitative Methodologies
### Sunday, April 7
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**Accurate Model Versus Accurate Estimates: A Study of Bayesian Single-Case Experimental Designs**  
*Fairmont Royal York Hotel, Mezzanine Level, New Brunswick*

Presenter/Author: Larry Hedges (AIR Institute Fellow)

**Session**  
Model Contemplations: Identification, Detection, Effects, and Errors

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**Evaluating Early Mathematics Achievement Growth of Language-Minority Students and Native English Speakers Using the Early Childhood Longitudinal Study—Kindergarten 2011**  
*Fairmont Royal York Hotel, Mezzanine, Tutor 8*

Presenters/Authors: Mengyi Li, Bitnara Jasmine Park, Thomas Sun, Yuan Zhang, Xiaying Zheng

**Session**  
Longitudinal Studies of STEM Interests, Choices, and Outcomes

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**Exploring the Relationship Between Quality Practice and Youth Leadership Outcomes in New York City**  
*Sheraton Centre Toronto Hotel, Second Floor, Kenora*

Presenter/Author: Jessy Zadrazil Newman

**Session**  

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**The Challenges and Possibilities of Market-Based Reforms on Teacher Education in England and the United States**  
*Metro Toronto Convention Centre, 800 Level, Hall G*

Chair: Yuting Li

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### Sunday, April 7
#### 12:10 pm – 1:40 pm

**Measurement and Policies Surrounding Accountability Testing**  
*Fairmont Royal York Hotel, Convention Floor, NCME—Salon B*

Discussant: Fran Stancavage

**Session**  
New Directions in Item Response Theory

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**Using the Discontinuation Rule to Reduce the Effect of Random Guessing**  
*Fairmont Royal York Hotel, Mezzanine, NCME—Territories*

Presenter/Author: Youngmi Cho

**Session**  
New Directions in Item Response Theory

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### Sunday, April 7
#### 3:20 pm – 4:50 pm

**Communicating to the Public About Machine Scoring: What Works, What Doesn’t**  
*Fairmont Royal York Hotel, Convention Floor, NCME—Ballroom*

Presenter/Author: Sue Lottridge

**Session**  
Issues and Advances in Automated Scoring of Constructed-Response Items
Sunday, April 7
3:20 pm – 4:50 pm

**Does Digital Familiarity Affect Performance in NAEP’s 2012 Digitally Based Writing Assessment?**
*Fairmont Royal York Hotel, Mezzanine, NCME—British Columbia*

Presenters/Authors: Young Yee Kim, Xiaying Zheng

Session: Score Comparability: Matters of Mode

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**Human Rating Errors and the Training of Automated Raters**
*Fairmont Royal York Hotel, Convention Floor, NCME—Ballroom*

Presenter/Author: Sue Lottridge

Session: Issues and Advances in Automated Scoring of Constructed-Response Items

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**The Impact of Automated Scoring of Essay Writing on Reporting Scores**
*Fairmont Royal York Hotel, Convention Floor, NCME—Ballroom*

Presenters/Authors: Youngmi Cho, Sue Lottridge, Ahmet Turhan

Session: Issues and Advances in Automated Scoring of Constructed-Response Items

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Sunday, April 7
3:40 pm – 5:10 pm

**Handling Methodological Complexities in Effect Size Calculation and Meta-Analysis of Single-Case Experimental Design Data**
*Metro Toronto Convention Centre, 800 Level, Room 801A*

Discussant: Joshua Polanin

**The Effects of Web-Based Text Structure Instruction on Chinese English Learners’ Higher Order Reading Comprehension Skills**
*Sheraton Centre Toronto Hotel, Mezzanine, Pine West*

Presenter/Author: Shuqiong Lin

Session: EFLs and English Learners: Innovations for Teaching and Learning

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Sunday, April 7
5:05 pm – 6:35 pm

**Item Profiling: A Case Study of NAEP Grade 4 Mathematics Process Data**
*Fairmont Royal York Hotel, Main Floor, NCME—Imperial Room*

Presenters/Authors: Ruhan Circi, Juanita Hicks, Soo Youn Lee

Session: Electronic Board Session 3

**Understanding Response Processes in Noncognitive Measures With Explanatory Item Response Modeling**
*Fairmont Royal York Hotel, Mezzanine, NCME—Territories*

Presenter/Author: Ming Lei

Session: Technical Considerations in Measuring Social and Emotional Learning
Sunday, April 7
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Using the ACT and SAT for Accountability Under the Every
Student Succeeds Act: Appropriate or Inappropriate Use
Fairmont Royal York Hotel, Convention Floor, NCME—Salon B
Moderator Sean P. “Jack” Buckley

Monday, April 8
8:00 am – 9:30 am

Accountability Reforms and the Pressure on Administrative
Services in School Systems
Metro Toronto Convention Centre, 800 Level, Hall F
Presenter/Author Drew Atchison
Session MTCC Roundtable: Restructuring and Reforming
Educational Organizations

Local Availability of Childcare and Family Choices by
Immigration Status: A Conditional Logit Model Analysis
Metro Toronto Convention Centre, 800 Level, Hall F
Presenter/Author Qi Xing
Session Analyzing and Critiquing Inter- and Intra-Immigration
Policy Issues

Using Statewide Data to Improve Teacher Education Through
a Research-Policy Partnership
Metro Toronto Convention Centre, 200 Level, Room 202C
Chair Dan Goldhaber

Monday, April 8
8:00 am – 10:00 am

Best Practices for Automated Scoring at AIR
Fairmont Royal York Hotel, NCME—Salon A
Presenter/Author Sue Lottridge
Session Best Practices Around Automated Scoring Standards

Design of the Cognitive Lab Study of NAEP Science SBTs
Fairmont Royal York Hotel, Mezzanine, NCME—Algonquin
Presenter/Author Ting Zhang
Session Optimizing Digital Affordances in NAEP Assessment Tasks:
Findings From Two Research Studies

Development of a Comprehensive Research Agenda to Examine
the Impact of Digital Affordances in Assessment
Fairmont Royal York Hotel, Mezzanine, NCME—Algonquin
Presenter/Author Fran Stancavage
Session Optimizing Digital Affordances in NAEP Assessment Tasks:
Findings From Two Research Studies
Monday, April 8  
8:00 am – 10:00 am

Findings From the Cognitive Lab Study of NAEP Science SBTs  
*Fairmont Royal York Hotel, Mezzanine, NCME—Algonquin*

Presenter/Author: Ting Zhang

Session: Optimizing Digital Affordances in NAEP Assessment Tasks: Findings From Two Research Studies

Monday, April 8  
10:25 am – 11:55 am

Comparing Mantel-Haenszel and Wald Differential Item Functioning Detection Methods Under Matrix Sampling of Items  
*Fairmont Royal York Hotel, Convention Floor, NCME—Salon B*

Presenters/Authors: Young Yee Kim, Xiaying Zheng

Session: New Insights in Differential Item Functioning Analyses

Monday, April 8  
12:20 pm – 1:50 pm

Effects of the Extended Time Accommodation on Performance in NAEP Mathematics  
*Fairmont Royal York Hotel, Mezzanine, NCME—British Columbia*

Presenters/Authors: Ruhan Circi, Young Yee Kim

Session: Testing Strategies, Extended Time Accommodation, and Speededness Using Process Data in NAEP

Making Research Relevant
Monday, April 8
12:20 pm – 1:50 pm

**Identifying Rapid-Guesser Using Growth Mixture Models**
*Fairmont Royal York Hotel, Mezzanine, NCME—British Columbia*

Presenter/Author: Xiaying Zheng

Session: Testing Strategies, Extended Time Accommodation, and Speededness Using Process Data in NAEP

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**Innovative Applications of Machine Learning Techniques**
*Fairmont Royal York Hotel, NCME—Salon A*

Discussant: Sue Lottridge

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**Testing Strategies, Extended Time Accommodation, and Speededness Using Process Data in NAEP**
*Fairmont Royal York Hotel, Mezzanine, NCME—British Columbia*

Chair: Fusun Sahin

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Monday, April 8
2:15 pm – 3:45 pm

**Can a Multiple-Choice-Items-Only Routing Block Reduce Routing Stage Time in MST?**
*Fairmont Royal York Hotel, Mezzanine, NCME—Algonquin*

Presenter/Author: Soo Youn Lee

Session: Exploration of Issues With Applying Multistage Testing in NAEP

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**Comparison of Weighted Average Composite Scoring Approach With Unidimensional Item Response Theory and Multidimensional Item Response Theory Approaches**
*Fairmont Royal York Hotel, Mezzanine, NCME—Algonquin*

Presenters/Authors: Young Yee Kim, Xiaying Zheng

Session: Exploration of Issues With Applying Multistage Testing in NAEP

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**Estimating Students’ Topic-Level Abilities Using Extended Higher Order Item Response Theory Models**
*Fairmont Royal York Hotel, Mezzanine, NCME—British Columbia*

Presenter/Author: Jie Sun

Session: Advances in Multidimensional Item Response Theory

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**Evaluation of MST Compared to Linear Assessment**
*Fairmont Royal York Hotel, Mezzanine, NCME—Algonquin*

Presenters/Authors: Juliet Holmes, Soo Youn Lee, Young Yee Kim

Session: Exploration of Issues With Applying Multistage Testing in NAEP

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**Exploration of Issues With Applying Multistage Testing in NAEP**
*Fairmont Royal York Hotel, Mezzanine, NCME—Algonquin*

Chair: Xiaying Zheng
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*Fairmont Royal York Hotel, Mezzanine, NCME—British Columbia*  
Presenters/Authors: Markus Broer, Ruhan Circi, Young Yee Kim  
Session: Important Test Administration and Scoring Considerations |
| Monday, April 8 | 6:35 pm – 8:35 pm | **Using Standard-Setting Methods for Length and Original Text Thresholds in Essays**  
*Fairmont Royal York Hotel, Mezzanine, NCME—Alberta*  
Presenters/Authors: Julie Benson, Jon Cohen, Sue Lottridge, Ahmet Turhan  
Session: Challenges, Issues, and Opportunities in Interrater Reliability |
| Monday, April 8 | 8:00 am – 9:30 am | **Reflecting on Research and Promise of School Turnaround and Reform**  
*Metro Toronto Convention Centre, 700 Level, Room 705*  
Presenter/Author: Kerstin Carlson Le Floch  
Session: STaR Distinguished Speaker Talk and Business Meeting: Reflecting on Research and Promise of School Turnaround and Reform |
| Tuesday, April 9 | 8:00 am – 9:30 am | **Do Nondegree Work Credentials Pay Off?**  
*Metro Toronto Convention Centre, 300 Level, Hall C*  
Presenters/Authors: Ke Wang, Xiaolei Wang  
Session: Advanced Studies of National Databases Poster Session |
|            |                  | **Effects of States’ Adoption of College- and Career-Ready Standards on Student Achievement**  
*Metro Toronto Convention Centre, 200 Level, Room 203A*  
Presenters/Authors: Michael Garet, Mengli Song, Rui Yang  
Session: Intended Curriculum, Enacted Curriculum, and Student Learning |
Tuesday, April 9
10:25 am – 11:55 am

A Systematic Review and Meta-Analysis on the Relationship Between School Violence and Later School Performance
Metro Toronto Convention Centre, 700 Level, Room 717A
Presenters/Authors: Joshua Polanin
Session: Preventing Violence and Supporting Students

Relationships Among Behavioral Profiles, Reading Performance, and Disability Labels: A Latent Class Analysis
Metro Toronto Convention Centre, 800 Level, Hall G
Presenter/Author: Zachary Weingarten
Session: Context Matters: Identification and Instruction in Special Education

Tuesday, April 9
12:20 pm – 1:50 pm

Explaining Pre-K Fade-Out? Content Coverage Redundancy in Pre-K and Kindergarten
Metro Toronto Convention Centre, 200 Level, Room 201D
Presenter/Author: Michael Little
Session: Early Childhood Education and the Transition to Kindergarten
## Index of Presentations by Topic

### Adult Literacy and Adult Education

**Saturday, April 6**  
2:15 pm – 3:45 pm

**Transitions Into the Labor Force: Examining U.S. Young Adults by Student and Employment Status**  
*Sheraton Centre Toronto Hotel, Mezzanine Level, Cedar*  
Presenter/Author: Emily Pawlowski  
Session: What Skills Are Key to Labor Force Success? Results From PIAAC

**What Skills Are Key to Labor Force Success? Results From PIAAC**  
*Sheraton Centre Toronto Hotel, Mezzanine Level, Cedar*  
Chair: Katie Herz  
Discussant: Jaleh Soroui

**Who Is Not Digitally Literate in the United States?**  
*Sheraton Centre Toronto Hotel, Mezzanine Level, Cedar*  
Presenter/Author: Saida Mamedova  
Session: What Skills Are Key to Labor Force Success? Results From PIAAC

### Advanced Studies of National Databases

**Tuesday, April 9**  
8:00 am – 9:30 am

**Do Nondegree Work Credentials Pay Off?**  
*Metro Toronto Convention Centre, 300 Level, Hall C*  
Presenters/Authors: Ke Wang, Xiaolei Wang  
Session: Advanced Studies of National Databases Poster Session

### AERA Governance

**Sunday, April 7**  
8:00 am – 9:30 am

**AERA Government Relations Committee: Closed Meeting**  
*InterContinental Toronto Centre, Upper Lobby, Caledon*  
Participant: Sean P. “Jack” Buckley

### AERA Sessions

**Saturday, April 6**  
4:10 pm – 6:10 pm

**English Learners in STEM Subjects: Transforming Classrooms, Schools, and Lives—A Report From the National Academies of Science, Engineering, and Medicine**  
*Metro Toronto Convention Centre, 100 Level, Room 104B*  
Commentator: Diane August
### Administration

#### School Organization and Effects

**Accountability Reforms and the Pressure on Administrative Services in School Systems**

*Metro Toronto Convention Centre, 800 Level, Hall F*

**Presenter/Author** Drew Atchison

**Session** MTCC Roundtable: Restructuring and Reforming Educational Organizations

### Arts and Learning

**Arts and Accessibility: What Influence Does Research Have?**

*Sheraton Centre Toronto Hotel, Second Floor, City Hall—Working Group*

**Chair** Meredith Ludwig

**Creating a Dynamic Inventory of Arts Policies and Research**

*Sheraton Centre Toronto Hotel, Second Floor, City Hall—Working Group*

**Presenter/Author** Andrea Boyle

**Session** Arts and Accessibility: What Influence Does Research Have?

**Implementing Improvement Science as a Problem-Finding Technique**

*Sheraton Centre Toronto Hotel, Second Floor, City Hall—Working Group*

**Presenter/Author** Meredith Ludwig

**Session** Arts and Accessibility: What Influence Does Research Have?

### Charters and School Choice

**A Longitudinal Study of Families’ Use of a Public School Choice Lottery System**

*Metro Toronto Convention Centre, 800 Level, Hall G*

**Presenters/Authors** Megan Austin, Kirk Walters, Rui Yang

**Session** MTCC Roundtable: Research on School Choice: Choosing and Recruiting
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Educational Policies and Politics

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Session Early Childhood Education and the Transition to Kindergarten

Legal and Judicial Issues for Equity and Access
Monday, April 8
8:00 am – 9:30 am

Local Availability of Childcare and Family Choices by Immigration Status: A Conditional Logit Model Analysis
Metro Toronto Convention Centre, 800 Level, Hall F
Presenter/Author Qi Xing
Session Analyzing and Critiquing Inter- and Intra-Immigration Policy Issues

Policy Implementation and Going to Scale
Monday, April 8
8:00 am – 9:30 am

Using Statewide Data to Improve Teacher Education Through a Research-Policy Partnership
Metro Toronto Convention Centre, 200 Level, Room 202C
Chair Dan Goldhaber
### Educational Statisticians

**Sunday, April 7**  
11:50 am – 1:20 pm

**Accurate Model Versus Accurate Estimates: A Study of Bayesian Single-Case Experimental Designs**  
*Fairmont Royal York Hotel, Mezzanine Level, New Brunswick*

Presenter/Author: Larry Hedges (AIR Institute Fellow)  
Session: Model Contemplations: Identification, Detection, Effects, and Errors

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### Fiscal Issues, Policy, and Education Finance

**Saturday, April 6**  
8:00 am – 10:00 am

**School Spending, Salaries, and Staffing Under Accountability**  
*Metro Toronto Convention Centre, 200 Level, Room 201E*

Presenter/Author: Drew Atchison  
Session: Resources Allocation in Pre-K–16 Education

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### Graduate Student Council

**Saturday, April 6**  
4:10 pm – 5:40 pm

**Fireside Chat—Navigating Professional Life After a Ph.D.: Comparing Traditional and Nontraditional Career Pathways**  
*Sheraton Centre Toronto Hotel, Second Floor, Provincial Ballroom North*

Participant: Bradley Quarles

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### International Studies

**Friday, April 5**  
4:20 pm – 6:20 pm

**Girls’ and Boys’ Mathematics and Science Performance: A Comparative Analysis Using 20 Years of TIMSS**  
*Metro Toronto Convention Centre, 800 Level, Room 809*

Presenter/Author: Frank Fonseca  
Session: STEM Through an International Lens

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**Saturday, April 6**  
8:00 am – 9:00 am

**Leveraging Education Research in a “Post-Truth” Era: Multimodal Narratives to Democratize Evidence**  
*The Westin Harbour Castle, Harbour Salon A*

Chair: David C. Miller

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**Saturday, April 6**  
8:00 am – 9:30 pm

**Who Overclaims? An Analysis of PISA 2012 Data**  
*Metro Toronto Convention Centre, 800 Level, Hall F*

Presenters/Authors: Yuqi Liao, Bitnara Jasmine Park  
Session: International Networks for Teaching and Learning
Learning and Instruction

Cognitive and Motivational Processes

**Facilitating Small-Group Discussions: Effects of Teacher Discourse Moves Across Various Group Compositions**

*Friday, April 5*
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**Metro Toronto Convention Centre, 300 Level, Hall C**

**Presenter/Author** Mengyi Li

**Session** Social and Cognitive Influences on Academic Performance

Literacy

**The Effects of Web-Based Text Structure Instruction on Chinese English Learners’ Higher Order Reading Comprehension Skills**

*Sunday, April 7*
*3:40 pm – 5:10 pm*

**Sheraton Centre Toronto Hotel, Mezzanine, Pine West**

**Presenter/Author** Shuqiong Lin

**Session** EFLs and English Learners: Innovations for Teaching and Learning

Mathematics

**Access to Accelerated Mathematics Course-Taking in Middle School and Beyond**

*Saturday, April 6*
*2:15 pm – 3:45 pm*

**Sheraton Centre Toronto Hotel, Mezzanine, Chestnut West**

**Chair** Nicholas Sorensen

**Discussant** Kirk Walters

**Does Readiness for Eighth-Grade Algebra Matter? A Quasi-Experimental, Multisite Analysis of Short- and Longer Term Outcomes**

*Saturday, April 6*
*2:15 pm – 3:45 pm*

**Sheraton Centre Toronto Hotel, Mezzanine, Chestnut West**

**Presenters/Authors** Whitney Cade, Ryan Eisner, Jordan Rickles, Nicholas Sorensen, Kirk Walters

**Session** Access to Accelerated Mathematics Course-Taking in Middle School and Beyond

**Mathematics Course-Taking Pathways for Joining STEM in College**

*Saturday, April 6*
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**Sheraton Centre Toronto Hotel, Mezzanine, Chestnut West**

**Presenter/Author** David I. Miller

**Session** Access to Accelerated Mathematics Course-Taking in Middle School and Beyond
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The Role of Identity-Based Motivation in Teachers’ Advanced Math Course Placement Decisions  
*Sheraton Centre Toronto Hotel, Mezzanine, Chestnut West*
Presenters/Authors: Ryan Eisner, Nicholas Sorensen, Kirk Walters
Session: Access to Accelerated Mathematics Course-Taking in Middle School and Beyond

### Longitudinal Studies

Sunday, April 7  
11:50 am – 1:20 pm
Evaluating Early Mathematics Achievement Growth of Language-Minority Students and Native English Speakers Using the Early Childhood Longitudinal Study—Kindergarten 2011  
*Fairmont Royal York Hotel, Mezzanine, Tutor 8*
Presenters/Authors: Mengyi Li, Bitnara Jasmine Park, Thomas Sun, Yuan Zhang, Xiaying Zheng
Session: Longitudinal Studies of STEM Interests, Choices, and Outcomes

### Measurement and Research Methodology

#### Quantitative Methods and Statistical Theory

Sunday, April 7  
11:50 am – 1:20 pm
Accounting for Student Attrition in Power Calculations: Benchmarks and Guidance  
*Metro Toronto Convention Centre, 300 Level, Hall C*
Presenter/Author: Jordan Rickles
Session: Statistical Theory and Quantitative Methodologies

Sunday, April 7  
3:40 pm – 5:10 pm
Handling Methodological Complexities in Effect Size Calculation and Meta-Analysis of Single-Case Experimental Design Data  
*Metro Toronto Convention Centre, 800 Level, Room 801A*
Discussant: Joshua Polanin

### National Assessment of Educational Progress (NAEP) Studies

Saturday, April 6  
8:00 am – 10:00 am
An Analysis of Schools That Operate Under National School Lunch Program Community Eligibility Provision  
*Fairmont Royal York Hotel, Mezzanine, Confederation 6*
Presenters/Authors: Markus Broer, Chang Shuang Ji
Session: Community Eligibility and National School Lunch Program Status: A View From NAEP
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**Making Research Relevant**
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<td>5:05 pm – 6:35 pm</td>
<td>Understanding Response Processes in Noncognitive Measures With Explanatory Item Response Modeling</td>
<td>Fairmont Royal York Hotel, Mezzanine, NCME—Territories</td>
<td>Ming Lei</td>
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<tr>
<td>Sunday, April 7</td>
<td>5:05 pm – 6:35 pm</td>
<td>Using the ACT and SAT for Accountability Under the Every Student Succeeds Act: Appropriate or Inappropriate Use</td>
<td>Fairmont Royal York Hotel, Convention Floor, NCME—Salon B</td>
<td>Sean P. “Jack” Buckley</td>
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<tr>
<td>Monday, April 8</td>
<td>8:00 am – 10:00 am</td>
<td>Best Practices for Automated Scoring at AIR</td>
<td>Fairmont Royal York Hotel, NCME—Salon A</td>
<td>Sue Lottridge</td>
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<td>Monday, April 8</td>
<td>8:00 am – 10:00 am</td>
<td>Design of the Cognitive Lab Study of NAEP Science SBTs</td>
<td>Fairmont Royal York Hotel, Mezzanine, NCME—Algonquin</td>
<td>Ting Zhang</td>
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<td>Monday, April 8</td>
<td>8:00 am – 10:00 am</td>
<td>Development of a Comprehensive Research Agenda to Examine the Impact of Digital Affordances in Assessment</td>
<td>Fairmont Royal York Hotel, Mezzanine, NCME—Algonquin</td>
<td>Fran Stancavage</td>
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<td>Monday, April 8</td>
<td>8:00 am – 10:00 am</td>
<td>Findings From the Cognitive Lab Study of NAEP Science SBTs</td>
<td>Fairmont Royal York Hotel, Mezzanine, NCME—Algonquin</td>
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<td>Sunday, April 8</td>
<td>8:00 am – 10:00 am</td>
<td>Optimizing Digital Affordances in NAEP Assessment Tasks: Findings From Two Research Studies</td>
<td>Fairmont Royal York Hotel, Mezzanine, NCME—Algonquin</td>
<td>Fran Stancavage</td>
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<td>Date</td>
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<td>Monday, April 8</td>
<td>10:25 am – 11:55 am</td>
<td>Comparing Mantel-Haenszel and Wald Differential Item Functioning Detection Methods Under Matrix Sampling of Items</td>
<td><em>Fairmont Royal York Hotel, Convention Floor, NCME—Salon B</em></td>
<td>Young Yee Kim, Xiaying Zheng</td>
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<td>Session: New Insights in Differential Item Functioning Analyses</td>
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<td>Monday, April 8</td>
<td>12:20 am – 1:50 pm</td>
<td>Effects of the Extended Time Accommodation on Performance in NAEP Mathematics</td>
<td><em>Fairmont Royal York Hotel, Mezzanine, NCME—British Columbia</em></td>
<td>Ruhan Circi, Young Yee Kim</td>
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<td>Session: Testing Strategies, Extended Time Accommodation, and Speededness Using Process Data in NAEP</td>
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<td>Exploring Examinees’ Timing Behaviors and Performance in a Digitally Based Mathematics Assessment</td>
<td><em>Fairmont Royal York Hotel, Mezzanine, NCME—British Columbia</em></td>
<td>Fusun Sahin</td>
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<td>Identifying Rapid-Guesser Using Growth Mixture Models</td>
<td><em>Fairmont Royal York Hotel, Mezzanine, NCME—British Columbia</em></td>
<td>Xiaying Zheng</td>
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<td>Monday, April 8</td>
<td>12:20 am – 1:50 pm</td>
<td>Innovative Applications of Machine Learning Techniques</td>
<td><em>Fairmont Royal York Hotel, NCME—Salon A</em></td>
<td>Sue Lottridge</td>
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<td>Monday, April 8</td>
<td>2:15 pm – 3:45 pm</td>
<td>Can a Multiple-Choice-Items-Only Routing Block Reduce Routing Stage Time in MST?</td>
<td><em>Fairmont Royal York Hotel, Mezzanine, NCME—Algonquin</em></td>
<td>Soo Youn Lee</td>
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<td>Session: Exploration of Issues With Applying Multistage Testing in NAEP</td>
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Monday, April 8
2:15 pm – 3:45 pm
**Comparison of Weighted Average Composite Scoring Approach With Unidimensional Item Response Theory and Multidimensional Item Response Theory Approaches**
*Fairmont Royal York Hotel, Mezzanine, NCME—Algonquin*
Presenters/Authors Young Yee Kim, Xiaying Zheng
Session Exploration of Issues With Applying Multistage Testing in NAEP

Monday, April 8
2:15 pm – 3:45 pm
**Estimating Students’ Topic-Level Abilities Using Extended Higher Order Item Response Theory Models**
*Fairmont Royal York Hotel, Mezzanine, NCME—British Columbia*
Presenter/Author Jie Sun
Session Advances in Multidimensional Item Response Theory

Monday, April 8
2:15 pm – 3:45 pm
**Evaluation of MST Compared to Linear Assessment**
*Fairmont Royal York Hotel, Mezzanine, NCME—Algonquin*
Presenters/Authors Juliet Holmes, Soo Youn Lee, Young Yee Kim
Session Exploration of Issues With Applying Multistage Testing in NAEP

Monday, April 8
2:15 pm – 3:45 pm
**Exploration of Issues With Applying Multistage Testing in NAEP**
*Fairmont Royal York Hotel, Mezzanine, NCME—Algonquin*
Chair Xiaying Zheng

Monday, April 8
4:10 pm – 6:10 pm
**Digital Familiarity and Warm-Up Effects in NAEP 2017 Mathematics**
*Fairmont Royal York Hotel, Mezzanine, NCME—British Columbia*
Presenters/Authors Markus Broer, Ruhan Circi, Young Yee Kim
Session Important Test Administration and Scoring Considerations

Monday, April 8
4:10 pm – 6:10 pm
**Using Standard-Setting Methods for Length and Original Text Thresholds in Essays**
*Fairmont Royal York Hotel, Mezzanine, NCME—Alberta*
Presenters/Authors Julie Benson, Jon Cohen, Sue Lottridge, Ahmet Turhan
Session Challenges, Issues, and Opportunities in Interrater Reliability

**Out-of-School Time**

Sunday, April 7
11:50 am – 1:20 pm
**Exploring the Relationship Between Quality Practice and Youth Leadership Outcomes in New York City**
*Sheraton Centre Toronto Hotel, Second Floor, Kenora*
Presenter/Author Jessy Zadrazil Newman
Postsecondary Education

College Student Access
Saturday, April 6
2:15 pm – 3:45 pm

Positive Impact of Early College High Schools: Exploring the Mediating Role of High School Experience
Sheraton Centre Toronto Hotel, Second Floor, Kenora
Presenters/Authors: Mengli Song, Kristina Zeisser
Session: Investigating the Outcomes of Dual Enrollment Programs

Research, Evaluation, and Assessment in Schools

Applied Research in Schools
Saturday, April 6
4:10 pm – 6:10 pm

Regional Educational Laboratory Midwest Support for Minnesota Department of Education’s Teacher Supply and Demand Study
Fairmont Royal York Hotel, Mezzanine, Tutor 7
Presenters/Authors: Steve Dibb, James Lindsay, Yinmei Wan
Session: Conducting Studies of Teacher Mobility and Retention in Partnership With State and Local Education Agencies

Saturday, April 6
4:10 pm – 6:10 pm

Regional Educational Laboratory Southwest Study of Teacher Mobility in Texas Schools
Fairmont Royal York Hotel, Mezzanine, Tutor 7
Presenters/Authors: Elizabeth Barkowski, Shannon Lasserre-Cortez, James Lindsay
Session: Conducting Studies of Teacher Mobility and Retention in Partnership With State and Local Education Agencies

Monday, April 8
10:25 am – 11:55 am

Does the Concentration of National Board Certified Teachers Matter to Teacher Retention and Student Achievement?
Fairmont Royal York Hotel, Mezzanine, Confederation 3
Presenters/Authors: Trisha Borman, Natalya Gnedko-Berry, Feng Liu, David Manzeske, So Jung Park
Session: Teacher Retention, Resiliency, Self-Efficacy, and Effectiveness

Research on Giftedness, Creativity, and Talent

Friday, April 5
12:00 pm – 2:00 pm

Assessing Creativity: Exploring the Relationships Among Self-Assessment, Teacher Ratings, and Divergent Thinking Tests
Metro Toronto Convention Centre, 200 Level, Room 201D
Presenter/Author: Rui Yang
Session: Advancing Creativity for Talent Development
### School Community, Climate, and Culture

**Friday, April 5**  
12:00 pm – 1:30 pm  
**International Perspectives on School Climate and Student and Teacher Engagement**  
*Metro Toronto Convention Centre, 200 Level, Room 203B*  
Discussant: David Osher

**Friday, April 5**  
12:00 pm – 1:30 pm  
**Teachers’ Perceptions of School Climate and Teacher Job Satisfaction: A Multilevel Analysis**  
*Metro Toronto Convention Centre, 200 Level, Room 203B*  
Presenter/Author: Yuting Li  
Session: International Perspectives on School Climate and Student and Teacher Engagement

**Sunday, April 7**  
11:50 am – 1:20 pm  
**The Challenges and Possibilities of Market-Based Reforms on Teacher Education in England and the United States**  
*Metro Toronto Convention Centre, 800 Level, Hall G*  
Chair: Yuting Li

### School Turnaround and Reform

**Monday, April 8**  
6:35 pm – 8:35 pm  
**Reflecting on Research and Promise of School Turnaround and Reform**  
*Metro Toronto Convention Centre, 700 Level, Room 705*  
Presenter/Author: Kerstin Carlson Le Floch  
Session: STaR Distinguished Speaker Talk and Business Meeting: Reflecting on Research and Promise of School Turnaround and Reform

**Monday, April 8**  
6:35 pm – 8:35 pm  
**STaR Distinguished Speaker Talk and Business Meeting: Reflecting on Research and Promise of School Turnaround and Reform**  
*Metro Toronto Convention Centre, 700 Level, Room 705*  
Speaker: Kerstin Carlson Le Floch
# Second Language Research

**Saturday, April 6**
12:20 pm – 1:50 pm

**Technology to Support English Learners in Community Colleges**

*Metro Toronto Convention Centre, 700 Level, Room 709*

Presenter/Author: Rebecca Bergey, Ann-Marie Faria, Alex Lishinski, Ashley Simpson Baird

Session: English Language Learners in Community Colleges: Challenges and Opportunities

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# Special Education Research

**Tuesday, April 9**
10:25 am – 11:55 am

**Relationships Among Behavioral Profiles, Reading Performance, and Disability Labels: A Latent Class Analysis**

*Metro Toronto Convention Centre, 800 Level, Hall G*

Presenter/Author: Zachary Weingarten

Session: Context Matters: Identification and Instruction in Special Education

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# Systematic Review and Meta-Analysis

**Saturday, April 6**
10:25 am – 11:55 am

**Locating Unreported Outcome Data for Use in a Meta-Analysis: Results From a Synthesis of Intervention Studies Reducing Cyberbullying**

*Metro Toronto Convention Centre, 800 Level, Hall G*

Presenter/Author: Joshua Polanin

Session: Meta-Analysis in Education: Innovative Methods and Applications

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# Teaching and Teacher Education

## Teacher Education Innovation and Policy

**Monday, April 8**
10:25 am – 11:55 am

**Higher Education Articulation Agreements Covering the Early Care and Education Workforce**

*Metro Toronto Convention Centre, 800 Level, Hall F*

Presenters/Authors: Andrea Boyle, Aleksandra Holod, Jennell McHugh

Session: MTCC Roundtable: The Costs of Standards and Accountability: Changing Landscapes and Global Contexts
Test Validity Research and Evaluation

Friday, April 5
4:20 pm – 6:20 pm

**Evaluating the Performance of Automated Essay Scoring in AzMERIT Assessments**
*Fairmont Royal York Hotel, Mezzanine, Confederation 3*

Presenters/Authors: Stephan Ahadi, Myong Hee Im, Yuan Hong

Session: Special Topics in Test Validity Research: Artificial Intelligence in Test Construction and Scoring

Vocabulary

Sunday, April 7
8:00 am – 9:30 am

**English Learners’ Acquisition of Academic Vocabulary: Instruction Matters, but So Do Word Characteristics**
*Sheraton Centre Toronto Hotel, Second Floor, Provincial Ballroom North*

Presenters/Authors: Lauren Artzi, Diane August

Session: Learning Vocabulary in a Second Language: Exploring Challenges and Opportunities Across Levels of Development and Proficiency

World Education Research Association

Saturday, April 6
12:20 pm – 1:50 pm

**What Is Changing in the Classroom Internationally?: Measuring innovation for Improvement**
*Metro Toronto Convention Centre, 200 Level, Room 205D*

Participant: Sean P. “Jack” Buckley