# SREE

Advancing Education Research

Fall 2012 Conference

Effective Partnerships: Linking Practice and Research

**PROGRAM** 



### SREE Membership

The Society for Research on Educational Effectiveness brings together individuals interested in the use of causal inference to improve educational practice. SREE provides a forum to engage with a community of researchers, practitioners, policymakers, and students united in a desire to advance education research. SREE membership is for the calendar year.

#### Member - \$150 per calendar year

Individual members in SREE have backgrounds in a diverse range of areas, including, but not limited to, education, economics, medicine, psychology, public policy, sociology, and statistics. They include researchers investigating causal relations in education, professionals active in school settings, and public officials and others instrumental in translating research into practice.

#### Student Member - \$100 per calendar year

Student members must be enrolled in a degree-granting program at an accredited institution. The Graduate Student Organization exists to provide an organizational venue where students may begin the career-long process of establishing networks which foster their intellectual growth and maximize the utility of their research.

#### Institutional Members - \$1500 per calendar year

Educational institutions, government agencies, nonprofit organizations, and for-profit organizations are encouraged to join SREE and designate an individual to represent their interests in the Society. Institutional member logos are published in SREE conference programs. Institutional members are also entitled to discounts on conference display space.

#### How to Join SREE or Renew Membership

By credit card:

All major credit cards are accepted at the conference registration desk or via SREE's secure site: www.sree.org/members/payment/

By check:

Checks made out to SREE are accepted at the conference registration desk or may be mailed to: Society for Research on Educational Effectiveness 2040 Sheridan Rd. Evanston, IL 60208



8:00 AM - 9:30 AM: Session 1

1A. Advances in Neuroscience Experiments in Laboratory and School Settings Latrobe

Chair: Steven Schneider, WestEd

EEG Estimates of Cognitive Workload and Engagement Predict Math Problem Solving Outcomes Carole Beal & Federico Cirett Galan, University of Arizona

A Randomized Trial of Computer Attention Training
With and Without Neurofeedback in Schools for Children
with Attention-Deficit/Hyperactivity Disorder
Naomi Steiner, Tahnee Sidhu, Elizabeth Frenette, Kirsten Rene,
Katie Tomasetti, & Ellen Perrin, Tufts University

1B. Data Driven Policy Panel Linking Research and Practice in New York: A New York City Small Schools of Choice Case Study Roosevelt

Moderator: David Silver, Bill & Melinda Gates Foundation

Robert Hughes, New Visions for Public Schools

Marc Sternberg, New York City Department of Education

Rebecca Unterman, MDRC



#### 1C. Data Driven Policy

# The Importance of Social and Emotional Learning on Student Outcomes Across Levels Dumbarton

Chair: Nathan Jones, Educational Testing Service

Learning Communities for Developmental Education Students: A Synthesis of Findings from Randomized Experiments at Six Community Colleges Michael Weiss, Mary Visher, & Evan Weissman, MDRC

Making Effective Social Skill Assessment More Accessible, Informative, and Effective for Schools on a Broad-Scale through an Interactive Game-Based Platform for Students
Melissa DeRosier & Ashley Craig, 3-C Institute for Social Development

Efficacy of the Responsive Classroom Approach: Results from a Three Year, Longitudinal Randomized Control Trial Sara Rimm-Kaufman & Ross Larsen, University of Virginia, Tim Curby, George Mason University, Alison Baroody, Eileen Merritt, Tashia Abry, Michelle Ko, & Julie Thomas, University of Virginia

# 1D. Alliance for Progress Invited Panel The SERP Partnership Model: Problem-Solving Research, Design, Development, and Implementation Executive Forum

Moderator: Suzanne Donovan, SERP Institute

Matt Ellinger, SERP Institute

Lowry Hemphill, Wheelock College

Cathy O'Connor, Boston University

Sonja Santelises, Baltimore City Public Schools

John Sabatini, Educational Testing Service

## 1E. Moving to Scale Diverse Approaches to Improving Student Learning in Math & Science Culpeper

Chair: Douglas Clements, University of Denver

Effectiveness of Small-Group Tutoring Interventions for Improving the Mathematical Problem-Solving Performance of Third-Grade Students with Mathematics Difficulties: A Randomized Experiment
Asha K. Jitendra, Danielle N. Dupuis, & Michael C. Rodriguez, University of Minnesota

Conditions for the Effectiveness of a Tablet-Based Algebra Program Andrew Jaciw, Megan Toby, & Boya Ma, Empirical Education

Balancing Self-Directed Learning with Expert Mentoring:
The Science Writing Heuristic Approach
Mack Shelley, Luke Fostvedt, Christopher Gonwa-Reeves, Joan Baenziger,
Michael McGill, & Ashley Seefeld, Iowa State University, Brian Hand,
William Therrien, Jonte Taylor, & Mary Grace Villanueva, University of Iowa

# **1F. Research Methods Shining Light into the Black Box of Evaluation**Sulgrave

Chair: Jennifer Hamilton, Westat

Aggregate-Level Conditional Status Metrics: From Median Student "Growth" Percentiles to "Value-Added" Models Katherine Furgol Castellano, University of California - Berkeley, and Andrew Ho, Harvard University

Incorporating Learning into the Cognitive Assessment Framework
Cassandra Studer, Brian Junker, & Helen Chan, Carnegie Mellon University

Measuring Intervention Effectiveness: The Benefits of an Item Response Theory Approach Katherine McEldoon, Sun-Joo Cho, & Bethany Rittle-Johnson, Vanderbilt University

#### Break

#### 10:00 AM - 12:00 PM: Session 2

2A. Advances in Neuroscience Invited Symposium Cognition in the Classroom: Bringing Research-Based Principles to Middle School Math Culpeper

Organizer: Steven Schneider, WestEd

Applying Research-Based Design Principles to Improve Middle School Math Outcomes Jodi Davenport, Kimberly Viviani, Kathleen Lepori, Shandy Hauk, & Steven Schneider. WestEd

Spacing Practice, Assessment and Feedback to Promote Learning and Retention Neil Heffernan & Cristina Heffernan, Worcester Polytechnic Institute, Kevin Dietz, Deena Soffer, James Pellegrino, & Susan Goldman, University of Illinois - Chicago

Improving Math Learning with Worked Examples
Julie Booth, Temple University, Kenneth Koedinger &
Elizabeth McLaughlin, Carnegie Mellon University

Integrating Visual and Verbal Information in Mathematics Virginia Clinton, Jennifer Cooper, Martha Alibali, & Mitchell Nathan, University of Wisconsin - Madison

Evaluating the Efficacy of the Principle-Based Redesign of the CMP Math Curriculum Yvonne Kao, Jodi Davenport, & Steven Schneider, WestEd

Discussant: Hal Pashler, University of California - San Diego

#### 2B. Data Driven Policy Panel

The Strategic Data Project: Improving Strategic and Management Decisions in Educational Agencies through the Effective Use of Data

Executive Forum

Moderator: Corinne Herlihy, Harvard University

Jon Fullerton, Harvard University

Andrew D. Baxter, Charlotte-Mecklenburg Schools

Korynn Schooley, Fulton County Schools

## 2C. Alliance for Progress Invited Symposium Tangible Improvements in Schools through Research-Practice Partnership in Chicago

Roosevelt

Organizer: Jenny Nagaoka, University of Chicago Consortium on Chicago School Research

The Five Essentials: Helping Schools Organize for Improvement Penny Sebring, Sue Sporte, & Jenny Nagaoka, University of Chicago Consortium on Chicago School Research

The On-Track Indicator as a Focus for Student Support in High School
Elaine Allensworth, University of Chicago Consortium on Chicago School Research

Working at the Nexus of Research and Practice:
Building the Capacity of Neighborhood High Schools
Melissa Roderick & David Johnson, University of Chicago Consortium on Chicago School Research

Discussant: James Kemple, Research Alliance for New York City Schools

2D. Alliance for Progress Invited Panel
Partnerships Between Researchers and State/District Personnel
for Program and Policy Evaluations
Sulgrave

Moderator: Allen Ruby, Institute of Education Sciences

Deanne Crone, University of Oregon, and Drew Braun, Bethel School District

Carolyn Heinrich, University of Texas - Austin, and Sandra Schroeder, Milwaukee Public Schools

Mark Lipsey, Vanderbilt University, and Bobbi Lussier, Tennessee Department of Education

2E. Moving to Scale Invited Panel **Examining the Reading-Writing Connection:** Viewpoints from the IRA-NICHD External Panel Dumbarton

Moderator: Peggy McCardle, NICHD

Richard Long, International Reading Association

Karen Harris, Vanderbilt University

Carol Connor, Arizona State University

2F. Moving to Scale Symposium **Identifying Potentially Successful Approaches to Turning Around Chronically Low-Performing Schools** Latrobe

Organizer: Rebecca Herman, American Institutes for Research

Chronically Low-Performing Schools and Turnaround: Evidence from Three States Michael Hansen & Kilchan Choi, American Institutes for Research

Differences in the Policies, Programs, and Practices (PPPs) and Combination of PPPs across Turnaround, Moderately Improving, and Not Improving Schools Rebecca Herman & Mette Huberman, American Institutes for Research

Investigating the Role of Human Resources in School Turnaround: Evidence from Two States Michael Hansen, American Institutes for Research

Implementation of Turnaround Strategies in Chronically Low-Performing Schools Brenda Turnbull & Erikson Arcaira, Policy Studies Associates

Discussant: Jennifer O'Day, American Institutes for Research

## 12:15 PM - 1:15 PM: Welcome & Opening Address - Fairmont Ballroom

#### Welcome & Introduction

Larry Hedges SREE President

# **Opening Address** Lessons Learned about Connecting Research to Policy

Susan Fuhrman President, Teachers College Columbia University

1:15 PM - 2:15 PM: Lunch - Fairmont Ballroom

September 6, 2012

#### 2:30 PM - 4:30 PM: Session 3

3A. Advances in Neuroscience Invited Symposium **School Reform and Beyond:** The Science and Practice of Alignment Within and Across Grades Sulgrave

Organizer: J. Lawrence Aber, New York University

Self-Regulation as a Key Building Block to Behavioral and Academic Development Fred Morrison, University of Michigan, John Foxe, Yeshiva University, and Stephanie Jones, Harvard University

Developing SECURe: A Self-Regulation and Literacy Intervention for Students in K-5 Robin Jacob, University of Michigan, Stephanie Jones, Harvard University, and Nancy Madden, Johns Hopkins University

Building Self-Regulation in Pre-K and Beyond Stephanie Jones, Harvard University, Robin Jacob, University of Michigan, and Pamela Morris, New York University

Discussant: Karen Bierman, Pennsylvania State University

Discussant: Vivian Tseng, William T. Grant Foundation

3B. Data Driven Policy Invited Panel Research for Cross-District Collaboration and Learning: Three Intersecting Models

Culpeper

Moderator: Rebecca Herman, American Institutes for Research

Jennifer O'Day, American Institutes for Research

Rick Miller, California Office to Reform Education

Helen Duffy, American Institutes for Research

3C. Data Driven Policy Invited Panel State Administrative Data for Policy Evaluation and Research

Dumbarton

2:30 PM - 4:30 PM: Session 3

Moderator: Matt Dawson, American Institutes for Research

Ben Castleman, Harvard University

Matthew Deninger, Massachusetts Department of Elementary & Secondary Education

Douglas Harris, Tulane University

Venessa Keesler, Michigan Department of Education

3D. Alliance for Progress Invited Panel Placing Partnership at the Center of Education Research: The Regional Education Laboratories' Early Work with Research Alliances Executive Forum

Moderator: Ruth Curran Neild, Institute of Education Sciences

John Hughes, REL Southeast

Julie Kochanek, REL Northeast & Islands

Arie van der Ploeg, REL Midwest

Ryoko Yamaguchi, REL Appalachia

# 3E. Alliance for Progress Invited Panel Research-Practice Collaboration in NYC:

**Evaluating the Implementation and Impact of the Expanded Success Initiative** Roosevelt

Moderator: James Kemple, Research Alliance for New York City Schools

John Duval, New York City Department of Education

Lori Nathanson, Research Alliance for New York City Schools

Adriana Villavicencio, Research Alliance for New York City Schools

# 3F. Moving to Scale Assessing Reading Interventions

Latrobe

Chair: Carol Connor, Arizona State University

A Randomized Controlled Trial of the Impact of the Fusion Reading Intervention on Reading Achievement and Motivation for Adolescent Struggling Readers Ellen Schiller, Xin Wei, Sara Thayer, Jose Blackorby, Harold Javitz, & Cyndi Williamson, SRI International

Examination of Latent Classes and Growth Trajectories in Reading Comprehension and Fluency CBMs for Grades 3-5
Cheng-Fei Lai & Gerald Tindal, University of Oregon

The Middle School Intervention Project:

Use of a Regression Discontinuity Design to Evaluate a Multi-Component Intervention for Struggling Readers in Middle School in Five School Districts

Deanne A. Crone, Mike Stoolmiller, Scott K. Baker, & Hank Fien, University of Oregon

# 5:00 PM - 6:00 PM: Keynote Address - Fairmont Ballroom Mobilizing "One Science" to Improve Outcomes in Health, Learning and Behavior

Jack Shonkoff Julius B. Richmond FAMRI Professor of Child Health and Development Director, Center on the Developing Child Harvard University

Introduction: Rebecca Maynard, University of Pennsylvania

6:00 PM - 7:00 PM: Reception - Colonnade - Lobby Level

#### FRIDAY SEPTEMBER 7, 2012

8:00 AM - 9:30 AM: Session 4

**4A.** Data Driven Policy Effects of Teacher Professional Development and Evaluation Culpeper

Chair: Robin Jacob, University of Michigan

A Quest for Increasing Student Math Achievement and Promoting Rigorous Evaluation in Italy: Evidence from the M@t.abel Teacher Professional Development Program

Daniele Vidoni, INVALSI, Aline Pennisi, Ministry of Economy and Finance - Italy,
Gianluca Argentin, University of Milan - Bicocca, Giovanni Abbiati, University of Milan, and Andrea Caputo, INVALSI

Comparing Beginning Teachers' Instructional Quality Growth on Subject-Specific and Global Measures Laura Neergaard & Tom Smith, Vanderbilt University

The Effects of Pacific CHILD: Findings from a Random Assignment Evaluation of an Intensive Professional Development Program for Teachers in the Pacific Yasuyo Abe & Vanora Thomas, Berkeley Policy Associates, Castle Sinicrope, Social Policy Research Associates, and Kevin Gee, Brown University

## 4B. Data Driven Policy Mechanisms to Enhance Student Outcomes Latrobe

Chair: Lou Cicchinelli, McREL

How School Principals Influence Student Learning
Elizabeth Dhuey, University of Toronto, and Justin Smith, Wilfrid Laurier University

Does the Level of Alignment between Student College Expectations and Preparation Mediate the Influence of Parent Resources on College Enrollment among Latino and Non-Latino White Students? Sarah Ryan, Carnegie Mellon University

Impacts of Instructional Pathways on English Learner Students:
Preliminary Findings and Impacts from a University/District Research Partnership
Rachel A. Valentino, Ilana M. Umansky, Sean F. Reardon, & Ritu Khanna, Stanford University

# 4C. Alliance for Progress Invited Panel Research-Practice Partnerships: Opportunities and Challenges

Executive Forum

Moderator: Vivian Tseng, William T. Grant Foundation

William Penuel, University of Colorado - Boulder

Adina Lopatin, New York City Department of Education

Michael Sorum, Fort Worth Independent School District

# 4D. Alliance for Progress Panel Building a Common Research Agenda Across Jurisdictions Sulgrave

Moderator: Julie Riordan, Education Development Center

Julie Kochanek, Education Development Center

Jane Best, McREL

Matt Dawson, American Institutes for Research

Steve Fleischman, Education Northwest

4E. Moving to Scale Invited Panel
45 States Can't All Be Wrong, but They Are Struggling:
The Implications for Practitioners, Policymakers, and Researchers from the Adoption of the Common Core State Standards
Roosevelt

Moderator: Richard Laine, National Governors Association

Deborah Loewenberg Ball, University of Michigan

Andy Plattner, Plattner Communications

# 4F. Research Methods The Utility of Alternative Grouping

Dumbarton

Chair: Michael Seltzer, University of California - Los Angeles

Modeling Intervention Effects on Subgroup Structure Across Social Networks
Tracy M. Sweet, Andrew C. Thomas, & Brian W. Junker, Carnegie Mellon University

Two Approaches to Quasi-Experimental Program Evaluation
Using State-Wide Educational Data Systems: Results of Computational Experiments
Valeriy Lazarev, Andrew Jaciw, & Denis Newman, Empirical Education

Data Combination and Instrumental Variables in Linear Models Christopher Khawand, Michigan State University

#### Break

#### 10:00 AM - 12:00 PM: Session 5

5A. Advances in Neuroscience Symposium
Implications of Three Training Experiments for Tailoring Instruction
to Promote the Fluency of Specific Arithmetic Families
Dumbarton

Organizer: Arthur Baroody, University of Illinois - Urbana/Champaign

Fostering First-Graders' Reasoning Strategies with the Most Basic Sums David J. Purpura, Arthur J. Baroody, Michael D. Eiland, & Erin E. Reid, University of Illinois - Urbana/Champaign

Fostering First-Graders' Fluency with Basic Addition and Subtraction Combinations Arthur J. Baroody, David J. Purpura, Michael D. Eiland, & Erin E. Reid, University of Illinois - Urbana/Champaign

Young Children's Use of a Shortcut to Solve Addition Problems Veena Paliwal, Erin E. Reid, Arthur J. Baroody, & David J. Purpura, University of Illinois - Urbana/Champaign

Discussant: Russell Gersten, Instructional Research Group

# 5B. Data Driven Policy Invited Panel Increasing the Impact of Research Findings on Policy Decisions in a Time of Scarcity Roosevelt

Moderator: Jon Baron, Coalition for Evidence-Based Policy

Mark Laisch, U.S. Senate Appropriations Committee

Michele McLaughlin, Knowledge Alliance

Vic Klatt, Penn Hill Group

10:00 AM - 12:00 PM: Session 5

5C. Alliance for Progress Invited Panel Research in the Service of Practice: Thinking Hard About the Applied Research Collaborative

Executive Forum

Moderator: Steve Cantrell, Bill & Melinda Gates Foundation

Elaine Allensworth, University of Chicago Consortium on Chicago School Research

Jon Fullerton, Harvard University

James Kemple, Research Alliance for New York City Schools

Meredith Phillips, University of California - Los Angeles

Barbara Schneider, Michigan State University

# 5D. Alliance for Progress Invited Symposium How Practitioners and Parents Matter in Research Design, Implementation, and Analysis Sulgrave

Organizer: Deborah Speece, Institute of Education Sciences

The Need for Community Collaborations:

Parents and Schools Informing Interventions for Students with Emotional and Behavioral Disorders Rohanna Buchanan, Oregon Social Learning Center

Context Matters: Learning from Teachers about Implementing Autism Interventions in Public Schools David S. Mandell, Hilary Dingfelder, & Erica Reisinger, University of Pennsylvania, and Aubyn Stahmer, Rady Children's Hospital - San Diego

An IES-Funded Effectiveness Study of a Top-Down and Bottom-Up Approach To Bring to Scale an Evidence-Based Reading Program Douglas Fuchs, Vanderbilt University, Kristen McMaster, University of Minnesota, Laura Saenz, University of Texas - Pan American, Lynn Fuchs, Vanderbilt University, Devin Kearns, Boston University, Christopher Lemons, University of Pittsburgh, Donald Compton, Vanderbilt University, and Christopher Schatschneider, Florida State University

Discussant: John Q. Easton, Institute of Education Sciences

# 5E. Moving to Scale The Importance of Implementation in Early Childhood Settings Culpeper

Chair: Scott Baker, University of Oregon

Scale Up at the Level of Multiple School Districts: Lessons Learned from Multiple IERI- and IES-Funded Projects Douglas H. Clements & Julie Sarama, University of Denver, Christopher B. Wolfe, Indiana University, and Mary Elaine Spitler, University at Buffalo

Effects of the Tennessee Voluntary Prekindergarten Program on School Readiness Mark Lipsey, Kerry Hofer, Dale Farran, Carol Bilbrey, & Nianbo Dong, Vanderbilt University

What Works in Gifted Education-Documenting the Model-Based Curriculum for Gifted Students Sarah Oh, Emily Hailey, Amy Azano, Carolyn Callahan, & Tonya Moon, University of Virginia

Establishing and Sustaining an Effective Pre-Kindergarten Math Intervention at Scale Alice Klein & Prentice Starkey, WestEd, and E. Todd Brown, University of Louisville

#### 12:00 PM - 1:30 PM: Career Forum - Ballroom Level

The Career Forum is an opportunity for individuals to meet with leading research firms. Each firm will host an informational session over lunch and select career forum participants for initial screening interviews.

Following the conclusion of the workshops on Friday afternoon, the sponsors of the Career Forum will host a reception on the ballroom level.









### 1:30 PM - 3:30 PM: Workshops A/B

Workshops require an additional fee.

#### Workshop A

Data Management for Educational Research Projects and School Records Data Kirsten Kainz, University of North Carolina - Chapel Hill Jennifer Renn, University of North Carolina - Chapel Hill Sulgrave

#### Workshop B

Introduction to the What Works Clearinghouse
Jill Constantine, Mathematica Policy Research
Neil Seftor, Mathematica Policy Research
Dumbarton

#### **Break**

#### 4:00 PM - 6:00 PM: Workshops C/D

Workshops require an additional fee.

#### Workshop C

Developing Research-Practice Partnerships That Impact School Improvement:
Lessons from the Consortium on Chicago School Research
Jenny Nagaoka, University of Chicago Consortium on Chicago School Research
David Stevens, University of Chicago Consortium on Chicago School Research
Elaine Allensworth, University of Chicago Consortium on Chicago School Research
Sulgrave

#### Workshop D

Application of Generalizability Theory to Observational Measures of Classroom-Level Outcomes Jason Downer, University of Virginia Andrew Mashburn, Portland State University Dumbarton

# 6:00 PM - 7:00 PM: Reception - Ballroom Level

#### **SATURDAY SEPTEMBER 8, 2012**

#### 8:00 AM - 4:00 PM: Short Course 1

Short courses require an additional fee.

Intervention Fidelity: Models, Methods, and Applications Chris Hulleman, James Madison University Culpeper

#### 9:00 AM - 5:00 PM: Short Course 2

Short courses require an additional fee.

Hierarchical Linear Modeling Michael Seltzer, University of California - Los Angeles Jordan Rickles, University of California - Los Angeles Latrobe

#### 9:00 AM - 5:00 PM: What Works Clearinghouse Certification Day 1

The What Works Clearinghouse Certification requires application and acceptance.

Jean Knab, Mathematica Policy Research Cay Bradley, Mathematica Policy Research Sulgrave

#### **SUNDAY SEPTEMBER 9, 2012**

#### 9:00 AM - 5:00 PM: What Works Clearinghouse Certification Day 2

The WWC Certification which began on Saturday continues through Sunday afternoon.

# SREE

# Society for Research on Educational Effectiveness Advancing Education Research

#### **Program Notes**

#### Symposia

Symposia in the conference program were either:

- (a) invited by the conference program committee, or
- (b) accepted through the peer review process.

All symposia sessions, including those designated *Invited Symposium*, are open to all conference participants. Each symposium includes a session organizer and an independent discussant.

#### **Panels**

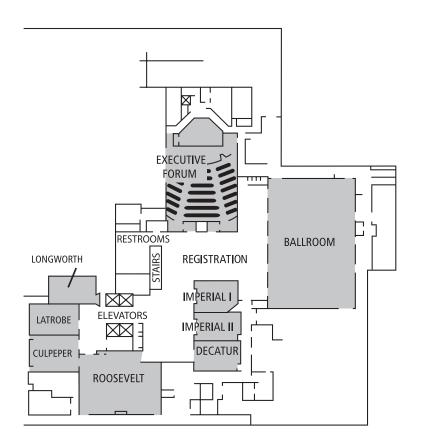
Panels in the conference program were either:

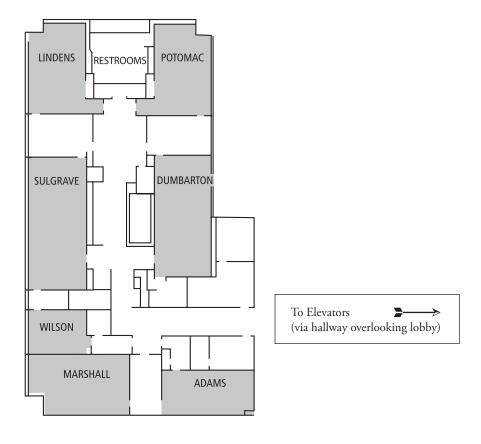
- (a) invited by the conference program committee, or
- (b) accepted through the peer review process.

All panel sessions, including those designated *Invited Panel*, are open to all conference participants. Each panel includes a moderator and panelists.

#### **Individual Papers**

Individual papers with a similar focus that were accepted through the peer review process were assembled into a session by the program committee. A session chair was invited by the program committee to manage the session.





Ballroom Level
The Fairmont Washington, D.C.

Third Floor Meeting Rooms The Fairmont Washington, D.C.

# SREE

## Society for Research on Educational Effectiveness Advancing Education Research

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# **SREE Spring 2013 Conference**

# Capitalizing on Contradictions: Learning from Mixed Results

March 7-9, 2013

Washington, D.C.

The Society for Research on Educational Effectiveness would like to thank the following organizations for their support:

























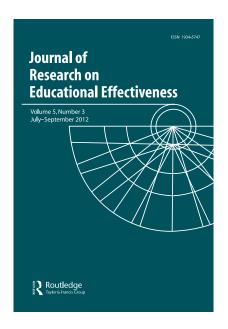






# JOURNAL OF RESEARCH ON EDUCATIONAL EFFECTIVENESS Volume 5, Number 3, 2012

Special Issue on the Statistical Approaches to Studying Mediator Effects in Education Research
Guanglei Hong, Guest Editor



Principal Stratification as a Framework for Investigating Mediational Processes in Experimental Settings

Lindsay C. Page

Commentaries by:

Tyler J. VanderWeele / Booil Jo & Elizabeth A. Stuart / Jennifer Hill

Weighting Methods for Assessing Policy Effects Mediated by Peer Change Guanglei Hong & Takako Nomi

Commentaries by:

Michael E. Sobel & Elizabeth A. Stuart / Kosuke Imai / Peter M. Steiner

Statistical Analysis for Multisite Trials Using Instrumental Variables With Random Coefficients Stephen W. Raudenbush, Sean F. Reardon, & Takako Nomi Commentaries by:

Howard S. Bloom / Derek Neal / Michael H. Seltzer