October 7 and October 8, 2014
DoubleTree by Hilton Hotel Bloomington
Bloomington, Illinois

Tuesday, October 7, 2014

Luncheon Keynote - The Art and Science of Student Success: Using Design Thinking and Advanced Analytics to Help Students Learn Well and Finish Strong

Mark Milliron, PhD
Co-founder and Chief Learning Officer of Civitas Learning

Wednesday, October 8, 2014

Science and Math Education Panel

Lorenzo Baber, University of Illinois at Urbana-Champaign
Shari L. Britner, Bradley University
Brian Houser, Illinois State Board of Education
Moderator: Sharon Locke, Southern Illinois University Edwardsville

Closing Keynote - “What Works in Higher Education” for Promoting Underrepresented Students in STEM

Terrell Strayhorn, PhD
Director of the Center for Inclusion, Diversity & Academic Success (IDEAS) at The Ohio State University

Hotel Information

Room Rate: $70.00, plus tax

Room rates are guaranteed through Monday, September 15, 2014

Call to make reservations: (309) 664-6446
Ask for the “IERC block” (IERC 2014 Symposium)
or
click for online Hotel Registration

WHERE
DoubleTree by Hilton Hotel Bloomington
10 Brickyard Drive, Bloomington, IL 61701

WHEN
Begins 10:00 AM, Tuesday, October 7 ♦ Ends 12:15 PM, Wednesday, October 8

QUESTIONS
Call Jennifer Barnhart toll free at the IERC, 866-799-4372
or email to jebarnh@siue.edu

Registration deadline: Monday, September 15, 2014
AGENDA

Tuesday, October 7, 2014

9:00 AM – 6:00 PM  REGISTRATION

10:00 AM – 11:30 AM  Concurrent Session 1


Mark Milliron, Co-founder and Chief Learning Officer, Civitas Learning

1:30 PM – 3:00 PM  Concurrent Session 2

3:15 PM – 4:15 PM  Concurrent Session 3

4:30 PM – 5:45 PM  Poster Session / Networking & Reception

6:00 PM  DINNER

Wednesday, October 8, 2014

7:00 AM – 9:30 AM  REGISTRATION

8:00 AM – 9:00 AM  FULL BREAKFAST

8:15 AM – 9:30 AM  PANEL PRESENTATION - Supporting Female and Minority K-12 Students in Science and Math

Lorenzo Baber, Assistant Professor, Education Policy, Organization and Leadership, University of Illinois at Urbana-Champaign

Shari Britner, Associate Professor, Teacher Education, Bradley University

Brian Houser, College and Career Readiness, Illinois State Board of Education

Moderator: Sharon Locke, Director, Center for STEM Research Education Outreach, Southern Illinois University Edwardsville

9:45 AM – 10:45 AM  Concurrent Session 4

11:00 AM – 12:15 PM  CLOSING KEYNOTE – “What Works in Higher Education” for Promoting Underrepresented Students in STEM

Terrell Strayhorn, Director, Center for Inclusion, Diversity & Academic Success (IDEAS) at The Ohio State University
Session Schedule

Tuesday, October 7, 2014

10:00 - 11:30 AM  CONCURRENT SESSION 1

1-A Persistence to a Quality Degree

1. Reframing the Quality Agenda: Building from the Field
   Natasha Jankowski and Carrie Allen, University of Illinois at Urbana-Champaign

2. Using Institutional Data to Guide Retention Efforts
   Henry Hinkle, Joseph Kutter, and Stacey Randall, Waubonsee Community College

3. Advising Matters: Whose Advice Do Students Really Value?
   Celina Sima and Patricia Inman, University of Illinois at Chicago

1-B K-12 Data Use

1. Red, Yellow, Green, What Does All This Data Mean?: Considering the Role of Student Performance Data in Teachers Quest to Meet Students’ Needs
   Margaret Evans, University of Illinois at Urbana-Champaign

2. Illinois Race to the Top Districts’ STEM Program of Study Selections in Relationship to Labor Market Projections
   Joel Malin and Donald Hackmann, University of Illinois at Urbana-Champaign

3. WHO KNEW? Close Analysis of Long-term Scoring Patterns on the ISAT, MAP and NAEP Indicates that They All Assessed Pretty Much the Same Thing and Valued Results in Pretty Much the Same Way
   Paul Zavitkovsky, University of Illinois at Chicago

1-C The Illinois 5Essentials

1. Exploration of the Five Essential Organizational Supports in Illinois
   Molly Gordon, Penny Bender Sebring, and Joshua Klugman, The University of Chicago Consortium on Chicago School Research

2. District Use of Illinois 5 Essentials Data
   Brenda Klostermann, Illinois Education Research Council

3. Taking the 5 Essentials to Early Education: Merging Early Childhood and K-12 Research in Support of School Improvement
   Debra M. Pacchiano, The Ounce of Prevention Fund and Stacy Ehrlich and Penny Bender Sebring, University of Chicago Consortium on Chicago School Research

1-D Teacher Career Paths

1. The Geography of the New Teacher Pipeline
   Brad White, Illinois Education Research Council

2. Harnessing the Power of Research to Inform Hiring and Increase Student Achievement
   Sean Gyll and Derrek Lyons, TeacherMatch

3. Teacher Attrition in Early Childhood, Elementary, Middle Level, and Bilingual Education Employment in Illinois: Preliminary Evidence and Potential Implications
   Nancy Latham, Steven Mertens, and Kira Hamman, Illinois State University
# Session Schedule

**Tuesday, October 7, 2014**

**1:30 - 3:00 PM  **  CONCURRENT SESSION 2

## 2-A College Pathways

1. **Outmigration and Human Capital: Homeward Bound or Gone for Good**
   - Eric Lichtenberger, Illinois Education Research Council

2. **College Pathways for Rural Indiana High School Graduates**
   - Matt Burke and Elisabeth Davis, REL Midwest

   - Bill Bloemer, Vickie S. Cook, and Karen Swan, University of Illinois Springfield, and Beth Davis, and Ellen Wagner, Predictive Analytics Reporting Framework

## 2-B Inside the Classroom

1. **Predictors of Science Anxiety: Gender and Mindset Orientation of 9th Grade Students**
   - J. Schwartz, Kristen Skells, and Jennifer Schmidt, Northern Illinois University

2. **Beyond the Screen: An Investigation of the Offline Factors that Influence Students’ Online Literacy Learning in Two Language Arts Classes**
   - Sonia Kline, Illinois State University

3. **A Quantitative Analysis of Resiliency and Academic Achievement Among Multiracial Students in Urban Illinois High Schools**
   - Brett Burton, West Aurora High School

4. **Does Intellectual Challenge Matter?**
   - Jen Cowhy, Holly Hart, and Susan Sporte, University of Chicago Consortium on Chicago School Research

## 2-C Measuring Educator Effectiveness

1. **Measuring Student Growth in Illinois**
   - Diana Zaleski and Mary O’Brien, Illinois State Board of Education

2. **Use of Value-Added and Observational Ratings to Measure Educator Effectiveness: Evidence from the Hillsborough County School District**
   - Steve Ponisciak, Nandita Gawade, Yang Caroline Wang, and Robert Meyer, Education Analytics

3. **Teacher Evaluation in Practice: Findings from the First Year of Chicago’s REACH Students**
   - Jennie Jiang, Stuart Luppescu, and Susan E. Sporte, The University of Chicago Consortium on Chicago School Research

## 2-D Early Childhood Teacher Development

1. **Validating the Danielson Framework for Teaching for Evaluating and Growing Teachers’ Practice in PreK-3 Classrooms**
   - Lisa Hood and Amy Perona, Illinois State University

2. **How Can We Improve the Quality of Early Mathematics Pre-service Teacher Education? Qualitative Data from a Professional Learning Community of Teacher Educators at 2- and 4-year Colleges**
   - Lisa Ginet, Erikson Institute, Nena Bush, Malcolm X College, and Michelle Barreras, Columbia College

3. **Impact of a Professional Development Model to Enhance Head Start Teachers Math Awareness & Teaching Efficacy**
   - Xiaobo She and Tywanda Jiles, Governors State University

4. **Innovations Early Math Professional Development Program: Two-year Impact Evaluation**
   - Erin Reid, Erikson Institute
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<th>3-A</th>
<th>Teaching in Higher Education</th>
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| 1.  | The Impact of Faculty Development on Teacher Self-Efficacy, Teaching Skills, and Retention  
    | Melodie Rowbotham, Southern Illinois University Edwardsville |
| 2.  | Constructing a Community-Centered Learning Environment: University Instructors' Reflections about the First Day of Class  
    | Amanda Frioli, Eureka College |

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<th>3-B</th>
<th>Drop-out Prevention</th>
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| 1.  | Effects of Expanding Summer Credit Recovery in Algebra  
    | Elaine Allensworth and Valerie Rose Michelman, University of Chicago Consortium on Chicago School Research, Takako Nomi, St. Louis University, and Jessica Heppen, American Institutes for Research |
| 2.  | Validating an Early Warning Indicator Analysis to be used with the ISBE Web Application System  
    | Matt Feldmann and Rosella Wamser, Goshen Education Consulting, Inc. |

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<th>3-C</th>
<th>Perspectives from the Field: Reactions to Reform</th>
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| 1.  | The Impact of External Thought Partners on District Culture and Improvement  
    | David Osta, Consortium for Educational Change, and Personnel from Marquardt Elementary School |
| 2.  | A Study of Teacher Perceptions on Urban School Reform and Closing the Achievement Gap  
    | Deborah Lynch, Chicago State University |
### Session Schedule

**Tuesday, October 7, 2014**

**4:30 - 5:45 PM** **POSTER SESSION**

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<th>1.</th>
<th>A Classroom Data Literacy Intervention for Pre-service Teachers</th>
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<td>Todd Reeves and Sheryl Honig, Northern Illinois University</td>
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<th>A Longitudinal Study of the Development of Mathematical Knowledge for Teaching for Elementary Teacher Candidates</th>
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<td>Erica Kwiatkowski-Egizio, Lewis University</td>
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<th>Co-teaching and UDL: Lessons Learned from Co-Teachers in Underserved Urban High Schools</th>
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<td>Todd Alan Price, Harry Ross, Xiuwen Wu, and Kate Zilla, National-Louis University</td>
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<td>Catherine Polydore, Eastern Illinois University</td>
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<th>“You don’t speak correct English”: Teacher Knowledge About Linguistic Diversity/ Acquisition and Its Role in Pedagogy</th>
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<td>Alice Lee, University of Illinois at Urbana-Champaign</td>
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<th>6.</th>
<th>The First of the Firsts: Illinois’ Policy on Bilingual Preschools</th>
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<td>Samina Hadi-Tabassum, Dominican University</td>
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<th>7.</th>
<th>Improving Math Instruction for Preschool Children: A Research-Based Professional Development Intervention and Evaluation</th>
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<td>Amanda Stein and Elizabeth Rothkopf, The Ounce of Prevention Fund/ Educare Chicago, and Bilge Cerezci, Erikson Institute</td>
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<th>8.</th>
<th>The Relationship of Early Language and Code-Related Skills to Third Grade Reading Achievement</th>
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<td>Amanda Stein, Caroline Taromino, and Todd Jackson, The Ounce of Prevention Fund</td>
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<th>9.</th>
<th>Remath: New Explorations of the Math-learning Experiences of Black Students in Non-credit-bearing University Courses</th>
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<td>Denise Boston and Qetsit’yah Yisra’el, University of Illinois at Chicago</td>
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|     | Yinna Zhang and Erin Reid, Erikson Institute                                                               |

| 11. | Parents and Providers as Partners: Beliefs and Practices of Early Literacy in One Urban Community |
|     | Colleen Whittingham and Emily Brown Hoffman, University of Illinois at Chicago                           |

| 12. | TalentSparks3 - Findings From a State-wide Problem Based Learning STEM Professional Development Initiative |
|     | Matt Feldmann, Goshen Education Consulting, Inc. and Karen Lindebrekke, iBIO Institute Educate Center     |

| 13. | How School Leaders Influence Instruction and Student Learning: A Preliminary Look at Strong School Leadership in 12 Schools |
|     | Amber Stitziel Pareja, Holly Hart, and Molly F. Gordon, The University of Chicago Consortium on Chicago School Research |

| 14. | Perceptions of Illinois Public School Board Members’ Need for Training on School Board Governance |
|     | Deborah Hrivnak, MyCoachDeborah, Inc.                                                                     |

| 15. | Retention of Talented STEM Students in the Illinois Higher Education Pipeline: Initial Baccalaureate Outcomes of IMSA Graduates |
|     | Christopher Kolar and Carissa Rosine, Illinois Mathematics and Science Academy                            |

*continued on next page*
Session Schedule

Tuesday, October 7, 2014

4:30 - 5:45 PM  POSTER SESSION (continued)

16. REL Midwest EdMaps: Assessing Education Data Geospatially
   Matt Burke, REL Midwest

17. Reasons for Reverse Transfers: In Students’ Own Words
   Brenda Klostermann and Eric Lichtenberger, Illinois Education Research Council

18. A Regional Analysis of the Impact of Educational Time Variables on Student Achievement
   Carol Collum, Chicago State University

19. Supporting Success for Low-Income Community College Students: What Does Identity Have to Do with It?
   Jiffy Lansing, Northwestern University and Jessica Besser-Rosenberg, One Million Degrees

20. Cultivating Intercultural Competencies for Engineering Students in Response to Diversity in Higher Education
   Hyun-Sook Kang, Illinois State University, and James M. LaFave and Jeremy Kaiser, University of Illinois at Urbana-Champaign

   Andrea Farnan, Northwestern University

22. Learning in the Discipline of Psychology: An Action Research Project Using a Paired Course Model
   Rebecca Vaughn, Northern Illinois University

23. Developing a Theory-Driven Assessment of Moment-to-Moment Reading Comprehension: The Reading Strategy Assessment Tool
   Melissa Ray, Joseph Magliano, and Greta Chan, Northern Illinois University
# Session Schedule

## Wednesday, October 8, 2014

### 9:45 - 10:45 AM  CONCURRENT SESSION 4

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<th><strong>4-A</strong> State Higher Education Policy</th>
<th><strong>4-B</strong> Shaping Teacher Practice in Math and Science</th>
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| 1. The Impact of Guaranteed Tuition Policies on Postsecondary Tuition Levels: A Difference-in-Difference Approach  
  Jennifer Delaney and Tyler Kearney, University of Illinois at Urbana-Champaign | 1. Changes in Teacher Practice and Student Outcomes in a Middle Grades Science Teacher Professional Development Program  
  Rachel Shefner and Megan Deiger, Loyola University Chicago |
| 2. Ethnic Homogeneity, Group Antagonism, and State Financial Support for Higher Education  
  John Foster, Southern Illinois University Edwardsville, and Jacob Fowles, University of Kansas | 2. Evaluation of the Illinois Mathematics and Science Academy’s FUSION Program: Impact on Teachers’ Professional Practice  
  Mary E. Piontek and Molly Stewart, Indiana University and Christopher Kolar, Illinois Mathematics and Science Academy. |

### 4-C Public School Funding

1. Exploring the Impact of Differential Public School Funding on the College Readiness of Illinois High School Students  
  Derek Houston and William T. Trent, University of Illinois at Urbana-Champaign

2. Implications of Senate Bill 16: An Analysis of Illinois Funding Adequacy and Equity  
  Ben Boer, Advance Illinois, and Michelle Turner Mangan, Concordia University Chicago