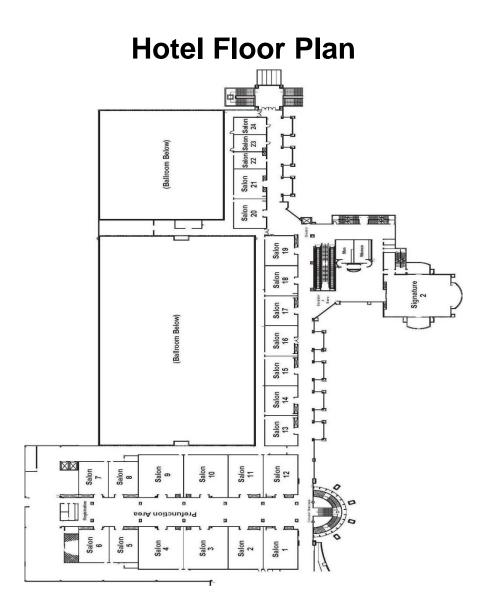
Florida Educational Research Association 56th Annual Meeting



Rosen Centre Hotel

November 2-4, 2011



REGISTRATION

10:00 – 5:00 PM Desk 4

Featured Address

12:00 – 1:30 PM Salon 3

Opening Session – Sponsored by Florida Association of Test Administrators (F.A.T.A.)

Test Security and Data Forensics – Communicating the Results with Confidence

Speaker: Dennis Maynes, Chief Scientist with Caveon Test Security

Moderator: Frank Gilbert, Orange County Public Schools

Description: Dennis Maynes and the team from Caveon, the contractor providing data forensics for FCAT, will address the issues of communicating the results and meaning of complex security algorithms to lay and professional audiences.

The discussion will provide an overview of data forensics evidence. Seven principles of obtaining defensible evidence will be presented. These are: accurate data; credible measurements; consistent procedures; scientific methods; probability statements; well-reasoned findings; and proper error control. Data forensics statistics will be discussed within the framework of these seven principles. The statistics will be applied to inferences concerning individual test takers and groups of test takers (e.g., schools and test groups).

<u>Symposium</u>

1:45 - 3:15 PM Salon 2

Evaluating Federal Education Programs: Illustrative Examples of District-Level Approaches

- Julie McLeod, Hillsborough County Public Schools
- Elizabeth Bright, RMC Research Corporation,
- Courtney Zmach, Collier County Schools

Technology and Learning

1:45 - 3:15 PM Salon 15

A Year in the Life of a Student Directed Class Facebook Page (11th Grade)

• Mark Hart, University of Florida

21st Century Student Artifacts: Exploring Technology Tools and Elements in Artifacts from a Year-Long Technology Integration Initiative

- Prisca Rodriguez, University of Florida
- Chris Frey, University of Florida
- Kara Dawson, University of Florida

Differences in Student Technology Literacy Based on Socio-economic Status, Ethnicity, and Gender

- Albert D. Ritzhaupt, University of Florida
- Ann E. Barron, University of South Florida
- Kara Dawson, University of Florida
- Feng (Martin) Liu, University of Florida

Student Achievement

1:45 - 3:15 PM Salon 16

A Longitudinal Study of Growth Trajectories of Reading and Math Achievement

- Xinya Liang, Florida State University
- Jin Koo, Florida State University
- Hulya Yurekli, Florida State University
- Betsy Jane Becker, Florida State University
- Insu Paek, Florida State University

Addressing the Achievement Gap and Disproportionality through Culturally Responsive Practice

- Angela Grinder, University of Central Florida
- Martha Lue Stewart, University of Central Florida

Investigating the Relationship between the Quality of School Facility and Students' Academic Achievement

- Tracey Gunter, Florida State University
- Betsy J. Becker, Florida State University
- Jing Shao, Florida State University

Principal-Level and School-Level Effects on Student Achievement

- Lantry L. Brockmeier, Valdosta State University
- Ronny Green, Valdosta State University

Psychometrics I

3:30 – 5:00 PM Salon 2

Salon 15

Evaluating the Type I Error and Power of Equating Methods for Capturing Academic Growth When Subgroup Academic Growths Vary Across Years

• Ou Zhang, University of Florida

Psychometric Characteristics of the Teachers' Sense of Efficacy Scale

- Lantry L. Brockmeier, Valdosta State University
- Ronny Green- Valdosta State University

The Impact of Multiple Endpoint Dependency on Homogeneity Measures in Meta-analysis

- Christopher Thompson, Florida State University
- Betsy Becker, Florida State University

Investigating Context Effect in a Simulation Study: A Multilevel Latent Model

- Miao Gao, University of Florida
- James Algina, University of Florida

School Issues

Cognitive Styles Among High School Calculus Students

- Erhan Selcuk Haciomeroglu, University of Central Florida
- Eric Chicken, Florida State University

Dual Enrollment in Florida: Factors and Policy Influencing Student Participation

3:30 - 5:00 PM

- Chrystal A.S. Smith, University of South Florida
- Tasha-Neisha Wilson, University of South Florida
- Kathryn M. Borman, -University of South Florida

Exploring How Elementary School Counselors Position Low-income, African-American Schoolgirls as Mathematics and Science Learners: Outcomes of a Longitudinal Study

- Cirecie West-Olatunji, University of Florida
- Eunhui Yoon, University of Florida
- Lauren Shure, University of Florida
- Rose Pringle, University of Florida
- Thomasenia Adams, University of Florida

Mathematics and Science Teaching and Learning

3:30 – 5:00 PM Salon 16

The Relationship between 5th Grade Teachers' Perceptions of Science Knowledge, Science Knowledge Test Scores, and Science Knowledge Observed in Class Instruction

- Brandon S. Diamond, University of Miami
- Jaime Maerten-Rivera, University of Miami
- Rose Rohrer, University of Miami
- Okhee Lee, University of Miami

The Transition from Doing Science to Teaching Science

• Roxanne Hughes, Florida State University

Using Technological, Pedagogical Content Knowledge to Study the Practices of Math and Science of Teachers Involved in a Technology Integration Initiative

- Kara Dawson, University of Florida
- Albert D. Ritzhaupt, University of Florida
- Feng (Martin) Liu, University of Florida
- Prisca Rodriguez , University of Florida
- Christopher A. Frey, University of Florida

Sponsor Session

5:15 – 6:45 PM Salon 3

Formative Empowerment for Teacher Effectiveness: A Multiple Measures Approach

Speaker: Dr. Chris Colwell, Chair of Undergraduate Teaching Council, Director of Undergraduate Teacher Education, Associate Professor of Teacher Education, Stetson University and Former Deputy Superintendent, Volusia County Schools

Moderator: Donna Buckner, Polk County Public Schools

Description: Our current models for evaluating teachers are based on a set of popular, but ultimately ineffective, practices which neither identify the teacher in need of assistance nor provide meaningful support to improve the quality of instruction in the classroom. A national consensus is emerging, however, around "best practices for teaching and learning". These best practices can be built into the design of a formative support and evaluation system for teachers.

This session will identify the common practices that are not linked to improving instruction and provide a specific framework for replacing those ineffective practices with a research-based system of formative empowerment for teacher success that can be supported by administrators, union leaders, and most importantly, that will provide meaning and support for classroom teachers working to inform and improve their practice. Dr. Colwell will also be available to talk about the Volusia County Schools partnership with Performance Matters along with the selection, design and implementation of FASTe (Formative Action System for Teacher Effectiveness).

Reception

7:00 – 8:30 PM Signature 2

Welcome Reception:

Meet our Sponsors:

Performance Matters and

Progress Testing–FCAT Test Maker Pro

REGISTRATION

8:00 – 4:00 PM Desk 4

Higher Education

8:45 - 10:15 PM Salon 15

Climbing Inside the Black Box: Using Naturalistic Inquiry to Guide the Design of an Online Dissertation Research Community of Practice (CoP)

- Martha M. Snyder, Nova Southeastern University
- Steven R. Terrell
- Laurie P. Dringus, Nova Southeastern University

Fueling a Knowledge-Based Community in STEM: Evaluation Methods and Results from a Large-Scale Institutional Integration (I 3) NSF Project

- Bonnie Swan, University of Central Florida
- Cynthia Cassagnol, University of Central Florida
- Conrad Katzenmeyer, University of Central Florida

Social Studies Methods Textbooks for Pre-Service Elementary Teachers: What's in the Books?

• Stephanie M. Bennett, University of South Florida

Psychometrics II

Selecting a Two-Group Classification Weighting Algorithm – Take Two

- John D. Morris, Florida Atlantic University
- Mary G. Lieberman, Florida Atlantic University

Fit Indices in Exploratory Factor Analysis for Ordered Categorical Data

- Yanyun Yang, Florida State University
- Yan Xia, Florida State University

How to Apply the LCDM Framework of Cognitive Diagnostic Modeling in the Analysis of Mathematics High Stakes Test Items

• Robert H. Fay, University of South Florida

8:45 - 10:15 PM Salon 2

Global Perspectives

8:45 - 10:15 PM Salon 16

Development of an Instrument to Measure High School Students' Global Awareness and Attitudes: Looking Through the Lens of Social Science

• Renita Ferreira, Florida International University

Evaluation of Distance College English Course at Chongqing University

• Yan Zhou, University of Central Florida

The Role of Affective Factors and School Resources to Predict Science Achievement Based on PISA 2006 in Turkey

- Serdar Caglak, Florida State University
- Mehmet Erdogan, Akdeniz University
- Murat Ozel, Gazi University

Gender Gap in Reading & Mathematics in Sub-Saharan African Countries: A Meta-Analysis

- Christine Ouma, Florida State University
- Jiwon Nam, Florida State University

Invited Speaker

10:30 AM - 12:00 PM Salon 3

Florida Value Added Model – Behind the Numbers

Speaker: Jon Cohen, Ph.D. Executive Vice President and Chief Statistician at the American Institute for Research (AIR)

Moderator: Salih Binici, Florida Department of Education

Dr. Cohen leads AIR's Assessment Program, which provides development, research, statistical, and other services on educational assessment, primarily at the elementary and secondary levels. The Assessment Program develops and implements curriculum and standards-based achievement assessments for states and other entities and conducts research and technical development on the methodology of assessment, and helps users analyze and interpret assessment data. AIR is the contractor working with Florida Department of Education to develop the statistics behind the Florida VAM.

Description: Florida is transforming its teacher evaluation system. Under Florida's successful Race to the Top application and the Student Success Act of 2011 (Senate Bill 736), districts are committed to developing and using new systems of educator evaluation that will measure improvements in student outcomes. The Florida Department of Education is working in partnership the American Institutes for Research and a statewide committee of educators and education stakeholders to develop value-added models to be used in the evaluations. Jon Cohen from the American Institutes for Research will present the value-added model approved by the Commissioner using Florida Comprehensive Assessment Test (FCAT) data for use beginning in 2011-12.

Graduate Student Luncheon

12:15 – 1:15 PM Salon 3

F.E.R.A. Graduate Student Business Meeting Luncheon

Sponsor: Dr. Bruce Hall

Graduate Student Coordinators: Corinne Huggins, University of Miami & Anabelle Rita, Florida State University

Invited Speakers: Dr. Courtney Zmach, Grant Evaluator, Collier County Public Schools; and Dr. Rosemarye Taylor, Associate Professor of Educational Leadership, University of Central Florida

LUNCH ON YOUR OWN

Poster Session

1:30 - 3:15 PM Salon 1

12:15 - 1:15 PM On Your Own

Patriann Smith, University of South Florida A Multilingual Educator's Path across Multicultural Societies

Barbara J. Peterson & Kathleen Alley, University of South Florida Springboard for Writing: Challenges of Choice, Complexity and Control

Matthew R. Lavery, University of Central Florida How do Students Perceive Care?: Diverse Middle School Students Describe How They Know Teachers Care

Francisco A. Jimenez, University of Florida Effects of Outlier-Item Parameters on IRT Characteristic Curve Linking Methods Under the Common-item Nonequivalent Groups Design

Thanh Vinh Pham & Eun Kyeng Baek, University of South Florida The Effect of LID on Measurement Implications, an Empirical Examination

Yu "James" Ao, University of Central Florida Motivation Across Cultures: Sustaining Students' Motivation for Better Learning **Outcome from a Cultural Perspective**

Dadria Lewis, Cirecie West-Olatunji & Thomasenia Adams, University of Florida Parents Positioning of Their Daughters as Mathematics and Science Learners: Year 2

Note: Posters will be on display until 5:15 pm

Structural Equation Modeling

1:30 - 3:15 PM Salon 15

An Investigation of Non-linear Structural Equation Modeling with Small Sample Sizes

- Xinya Liang, Florida State University •
- Yanyun Yang, Florida State University •

Exploring Optimal Procedure for Creating Parcels in Structural Equation Modeling

- Fatih Orcan, Florida State University •
- Yanyun Yang, Florida State University

Effect Size Index in Structural Equation Modeling

- Mengyao Cui, Florida State University
- Yanyun Yang, Florida State University

Teacher and Principal Preparation

Technology to Enhance Mathematics and Science Teaching and Learning

- Gladis Kersaint, University of South Florida
- Albert Ritzhaupt, Feng Liu-University of Florida
- Feng Liu, University of Florida

1:30-3:15 PM Salon 2

Creating Authentic Learning Environments for Pre-service Teachers Integrating Technology

- Beth Jordan, University of South Florida
- Tina Hohlfeld, University of South Florida
- Kimberly Wheeler, University of South Florida
- Deborah Vest, University of South Florida

Professional Development in Technology Integration: Measuring the Impact

- Ann E. Barron, University of South Florida
- Albert D. Ritzhaupt, University of Florida
- Feng (Martin) Liu, University of Florida
- Christine J. Harmes, University of South Florida

The Adventures of Weather Girl and Cloud Man: What Pre-service Teachers Taught Us about Teaching Writing

- Erin E. Margarella, University of South Florida
- Matthew U. Blankenship, University of South Florida
- Jenifer J. Schneider, University of South Florida

Differential Item Functioning

3:30 – 5:00 PM Salon 15

Does Skills Mastery or Nonmastery Result in Differential Item Functioning?

• Yi-Hsin Chen, University of South Florida

Impact of Varying Group Ability Distributions on Detection of DIF Using IRTLRDIF

• Damien M. Hoffman, Florida State University

Meta-Analysis of the Mantel-Haenszel Index for DIF Detection and Interpretation in Large-Scale Reading Assessments

- Jin Koo, Florida State University
- Betsy Jane Becker, Florida State University
- Insu Paek, Florida State University

Issues in Assessment

Changing Conceptions of Assessment: The Role of Pre-service Assessment Education

- Christopher DeLuca, University of South Florida
- Aarti Bellara, University of South Florida
- Teresa Chavez, University of South Florida
- Chunhua Cao, University of South Florida

Cohesive Interim Assessments: Challenges and Solutions During a District-wide Progress Monitoring Implementation and initial Data Analysis

- Paul Felsch, Leon County Schools
- Linda Dean, Leon County Schools
- Matt Roberson, Leon County Schools

Predicting FCAT through FAIR; One District's Determination

- Janet Mahowski, Pinellas County School District
- Claudia Guerere, Pinellas County School District
- Octavio Salcedo, Pinellas County School District

Teachers' Perceptions of High-Stakes Testing and Accountability of Diverse Student Groups in Elementary Science

- Georgina O. Lindskoog, University of Miami
- Jaime Maerten-Rivera, University of Miami
- Brandon Diamond, University of Miami
- Okhee Lee, University of Miami

Program Effectiveness

The Health Care Reform Law as a Critical Life Event: Investigating Medical Education in a Time of Health Care Reform

• Joel B. Goodin, Florida State University

An Evaluation of an Individualized Learning and Teacher Support Program

- Karen Barton, CTB/McGraw-Hill
- Meagan Karvonen, Western Carolina University

3:30 – 5:00 PM Salon 16

3:30 – 5:00 PM Salon 2

Creating Student Investigators (CSI): Evaluation results from a National Science Foundation funded Innovative Technology Experiences for Students and Teachers (ITEST) Program for Grades 7-12

- Bonnie Swan, University of Central Florida
- Karen Yanowitz, Arkansas State University

NASA Kennedy Space Center Educator Resource Center (KSC/ERC) Pre-Service Institute Evaluation Report

- Kristopher Childs, University of Central Florida
- Bonnie Swan, University of Central Florida

EVENING RECEPTION Signature 2

5:30 p.m. – 7:30 p.m.

Sponsored by:

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PEARSON

REGISTRATION

8:30 - 10:00 AM Desk 4

Featured Address

9:00 - 10:30 AM Salon 3

Machine Scoring of the Common Core Standards – Is it Ready for Prime Time?

Mark Shermis – Professor and Dean of College of Education University of Akron

Dr. Shermis is one of the top researchers in the field of machine scoring. He has played a leading role in bringing computerized adaptive testing to the World Wide Web, and for the last ten years has been involved in research on automated essay scoring. His most recent work has resulted in the seminal book on the topic (Jill Burstein, Ph.D., co-editor), *Automated Essay Scoring: A Cross-Disciplinary Approach* published by Lawrence Erlbaum Associates, Inc.

Moderator: Frank Gilbert, Orange County Public Schools

Description: This presentation illustrates some of the more recent advances in machine scoring that are being contemplated with the assessments developed for the Common Core Standards. These include automated essay scoring, short-answer scoring, speech recognition and scoring, symbolic processing for the evaluation of math items, and innovative item types. But are these technologies ready for "prime-time"? The presentation address the state of machine scoring, the problems associated with machine scoring in the context of the Race-to-the-Top timetable, and the promise to finally free us from large-scale group-administered tests.

<u>Symposium</u>

10:45 – 12:15 PM Salon 6

Trends, Demands and Challenges in Florida Teacher Certification Examinations (FTCE) and Florida Educational Leadership Examination (FELE)

- Suleyman Olgar, Florida Department of Education
- Phil Canto, Florida Department of Education
- Feng Zhou, Florida Department of Education
- John Green, Florida Department of Education

Friday November 4

Test Development

10:45 – 12:15 PM Salon 5

An Investigation into the Development and Scoring of the Multi-Part Constructed-Response (MPCR) Item

- Karen Barton, CTB/McGraw-Hill
- Mary Lou Schmidt, CTB/McGraw-Hill
- Beth Klein, CTB/McGraw-Hill
- Ping Wan, CTB/McGraw-Hill
- Lara Osleson, CTB/McGraw-Hill

Exploring the Proper Measurement Model to Estimate Reliability

- Serdar Caglak, Florida State University
- Yan Xia, Florida State University

Investigation of the Invariance Assumption for FCAT Equating

- Qian Liu, Florida Department of Education
- Sangwook Park, Florida State University
- Jin Koo, Florida State University

Linear Logistic Test Model: Using SAS[®] to Simulate the Decomposition of Item Difficulty by Algorithm, Sample Size, Cognitive Component and Time to Convergence

- George MacDonald, University of South Florida
- David C. Anchin Center

School Programs

10:45 – 12:15 PM Salon 2

Promoting College Readiness in Central Florida Schools: The Impact of the University of Central Florida Holmes Scholars on Middle and High school AVID Students

- Monifa Green Beverly, University of Central Florida
- Jennifer C. Platt, University of Central Florida
- Jennifer M. Johnson, University of Central Florida
- Janet Daugherty, University of Central Florida
- Kendra Minor, University of Central Florida

Comparative Study on Selected Accelerated Academic Programs in Florida High Schools

- Kenneth Baah, University of South Florida
- Reginald S. Lee, University of South Florida

Friday November 4

School Attitudes of High School Students in Advanced Placement (AP) and International Baccalaureate (IB) Programs

- Robert Dedrick, University of South Florida
- Elizabeth Shaunessy, University of South Florida
- Shannon Suldo, University of South Florida
- John Ferron, University of South Florida
- Sarah Fefer, University of South Florida
- Rachel Roth, University of South Florida
- Nicole Land, University of South Florida
- Kelly Wagner, University of South Florida
- Matt Hart, University of South Florida

Evaluating the Effectiveness of READ 180 Reading Intervention Program for Struggling Readers in One Central Florida School District

• Yakup Bigili, Florida State College at Jacksonville

Special Topics

10:45 – 12:15 PM Salon 1

Where should educational technologist publish?

- Albert D. Ritzhaupt, University of Florida
- Christopher Sessums, University of Florida
- Margeaux C. Johnson, University of Florida

An Exploratory Multi-level Model Analysis of the Power of Play in the Middle School

- Sarah van Ingen, University of South Florida
- George MacDonald, University of South Florida
- Gladis Kersaint, University of South Florida

An Investigation of the Relationship between Violent Video Games and Self-Reported Aggression

- Giovanni Cusmano, Nova Southeastern University
- Jared Buckner, Nova Southeastern University

A Literature Synthesis about Games in Education

- Albert D. Ritzhaupt, University of Florida
- George MacDonald, University of South Florida
- Gladis Kersaint, University of South Florida

FERA Luncheon

12:30 – 2:00 PM Salon 3

Annual Business Meeting and Awards Luncheon

Sponsored by:

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BOARD MEETING

2:15 – 3:00 PM Salon 5

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*Don Lambert was installed in January 1980. Annie Ward was installed in November 1980.

NOTES

NOTES