Florida Educational Research Association

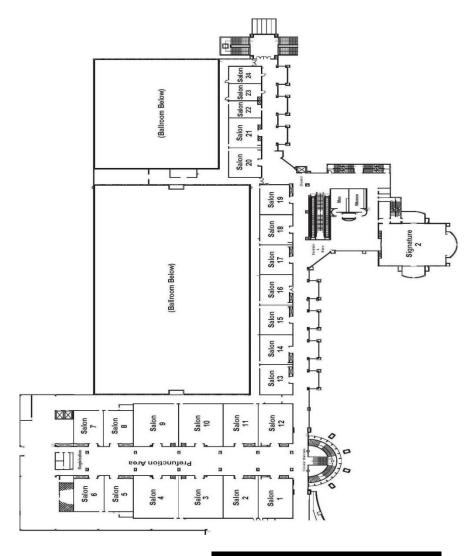
55th Annual Meeting



Rosen Centre Hotel

Orlando, Florida November 17-19, 2010

Hotel Floor Plan



Measuring Growth or Just Growing Measurement?

How an Ipsative Model for Measuring Student Growth Could Benefit Students, Schools and Improve Decision Making

Dr. James Ashby
Vice-President for Research
and Chief of Psychometrics. Core K12

A substantive educational policy issue at federal, state, and district levels focuses on the design and use of growth models in conjunction with accountability systems and teacher evaluation. Often growth modeling is accomplished with high stakes, summative tests rather than with formative or interim assessments. Innovative approaches in growth modeling show potential for use of varied assessments in supporting student growth, communicating student performance to various constituencies, improving instruction, and evaluating teachers more equitably.

Dr. Ashby recently joined CORE K12 as Vice-President for Research and Chief of Psychometrics. In addition to his background in educational psychology, he has held leadership roles with assessment, research, and accountability in school districts, including Plano, TX and Knox County, TN. His current research focus is in the area of growth modeling.

2.1 Assessment Programs 1:45 - 3:15 PM Salon 19

 Implementation of a Cohesive Interim Assessment System in a Middle Size District

> Paul Felsch, Leon County Public Schools Linda Dean, Leon County Public Schools

 Development and Assessment of an Instrument for the Evaluation of Volunteer Drivers for the Tampa Meals on Wheels Program.

> Richard F. Brummer, University of South Florida Claudia Güerere, University of South Florida

2.2 Measurement Instruments 1:45 - 3:15 PM Salon 20

A Psychometric Review of Instruments for Student Evaluations of Distance Education Instruction

> Elizabeth Shaunessy, University of South Florida Robert Dedrick, University of South Florida Aarti Bellara, University of South Florida Connie Walker, University of South Florida Eun Kung Baek, University of South Florida Shelley Stewart, University of South Florida

The Development of An Instrument Based on Theory by Dr. Cy Houle; A Validation Attempt.

> Claudia Güerere, University of South Florida Christy Rhodes, University of South Florida

An Empirical Comparison of Four Missing Data Techniques for **Estimating Person Scores on Likert-type Scales**

> Patricia Rodriguez de Gil, University of South Florida Jeffrey D. Kromrey, University South Florida

2.3 Technology and Learning 1:45 - 3:15 PM Salon21

Combining Social Network Analysis with Responsive Evaluation to Study a Growth in a Collaboration Over Time—A Situated Perspective for Improving Florida Nursing Education

> Bonnie Swan, University of Central Florida Jaime Godek -- University of Central Florida

Instructional Technology Course Redesign: Iteration One

Beth E.Jordan, University of South Florida Oma Baliram Singh, University of South Florida Michelle Stewart, University of South Florida Cameron Spears, University of South Florida Tina N. Hohlfeld, University of South Florida

Technology Use in Two Florida Career Academies: A Qualitative Study

Margaret Allsopp, University of South Florida

Groups 2.0: A model for Conducting Successful Group Projects Online Using Web 2.0 Technologies

Shelley Stewart, University of South Florida

3.1 Symposium

3:30 - 5:00 PM

Salon 19

Pre and Post: A View of Florida's Third Grade Retention Policy

Danielle V. Dennis, University of South Florida Diane C. Kroeger, University of South Florida James Welsh, University of South Florida Richard C. Brummer, University of South Florida Eun Kyeng Baek, University of South Florida

3.2 School Issues

3:30 - 5:00 PM

Salon 20

 Examination of Teacher Views About the Role of Constructivist Program That Makes Literate Students for Science and Technology

> Yakup DOGAN, Florida State University Esra Kocyigit, Florida State University Oguzcan Cig, Florida State University

 Florida Middle School Principals Acknowledge the Seriousness of Student Cyberbullying

> Margaret C. Gardner, University of Central Florida Debbie Hahs-Vaughn, University of Central Florida Rosemarye Taylor, University of Central Florida

 Happy Learning: An Assessment of Florida's Super Scientist Program

> Jennifer J. Vogel-Walcutt, University of Central Florida Mitchell H. Vogel, Evens Elementary School

3.3 Research on STEM

3:30 - 5:00 PM

Salon 21

 Rigorous and Accelerated High School Mathematics and Science Course Taking: Pathways to STEM Careers for Women

> Patricia Rodriguez de Gil, University of South Florida Reginald S. Lee, University South Florida Rheta E. Lanehart, University South Florida Kathryn M. Borman, University South Florida

 Effect of STEM Career Academies on High School Math and Science Course Taking: A Transcript Study of the 12th Grade 2006 Cohort

> Patricia Rodriguez de Gil, University of South Florida Reginald S. Lee, University South Florida Rheta E. Lanehart, University South Florida Kathryn M. Borman, University South Florida

 The Role of Living and Learning Communities in Women's College STEM Decisions

Roxanne Hughes, Florida State University

What are the Factors Affecting Women's Persistence in STEM?
 Roxanne Hughes, Florida State University

4.0 DOE Sponsored Session 5:15 – 6:45 PM Signature 2

Scaling, Linking, and Equating in **Large Scale Assessment**

Moderator: Salih Binici

4.0 DOE Sponsored Session 5:15 – 6:45 PM

Signature 2

Featuring:

Dr. Neil J. Dorans

Distinguished Presidential Appointee, Educational Testing Service.

During Dr. Dorans' 27 years at ETS, he has had primary responsibility for the statistical work associated with the AP®, PSAT/NMSQT®, and SAT® exams.

Dr. Walter (Denny) Way

Vice President of Psychometric and Research Services Pearson Educational Measurement.

Dr. Way's primary research interests include computerized testing, item response theory, and large scale assessment.

Dr. Mark Reckase

Distinguished Professor, Measurement and Quantitative Methods, Michigan State University

Dr. Reckase specializes in the development of educational and psychological tests, educational policy related to testing, and the psychometric theory that supports the assessment of cognitive skills and content knowledge.

Welcome Reception:

Pool Balcony 7:00 – 8:30 Pool Balcony

Sponsored by E2020

Meet our Sponsors Janis Williams

and

Pearson Assessment for Learning Meet our Sponsors Lisa Carter Andy Krazit

(Backup location Salon 16)

5.1 Teacher and Principal Prep 8:45 - 10:15 PM Salon 19

Pre-service Teachers' Attitudes Toward the Florida Comprehensive Assessment Test (FCAT)

Jacquelin W. Cocke, Florida State University

Comparing the Effects of Context Based vs. Non-context Based Problems in a Mathematics Methods Course on Pre-Service **Teacher Math Anxiety**

> Leslie Nisbet, Florida International University Maria L. Fernandez, Florida International University Roxanne Molina, Florida International University

The Effect of Microteaching Lesson Study on Elementary Preservice Teacher Content and Pedagogical Content Knowledge

> Roxanne Molina, Florida International University Leslie Nisbet, Florida International University Maria L. Fernandez, Florida International University

Principal Preparation and Development: Learning to Lead Within an Action Learning Group

> Pat Maslin-Ostrowski, Florida Atlantic University Michele Acker-Hocevar, Washington State University Meredith Mountford, Florida Atlantic University Judith T. Garrard, Florida Atlantic University Joyce Krzemienski, Florida Atlantic University

5.2 Science Instructions

8:45 - 10:15 PM

Salon 20

Comparative Case Study of Two Informal Science Learning Programs:Focusing on Gender

> Roxanne Hughes, Florida State University Kristen Molyneaux, University of Wisconsin, Madison Pat Dixon, Florida State University/National High Magnetic Field Laboratory

Investigating the Amazing You Through Technology: Evaluation of informal science Learning Within the Museum Environment

> Wendy D. Dickinson, Ringling College of Art and Design Bruce W. Hall, University of South Florida

A Mixed Methods Analysis of a Professional Development Model for Integrating Technology into the Music Classroom

Michael S. Zelenak, University of South Florida

5.3: Mathematics Instruction 8:45 - 10:15 PM Salon 21

Relations Between Students Reading and Mathematics
 Achievements From a large scale assessment: A Multivariate Latent
 Growth Curve Approach

Qian Liu, Florida State University Yanyun Yang, Florida State University

 Analysis of an Original Research Hypothesis and Data: An Application of Growth Mixture Modeling Using Math Achievement Data From a Large-Scale Assessment.

> Fatih Orcan, Florida State University Esra Kocyigit, Florida State University

Cognitive Preference Test in Calculus (CPTC)

Erhan Selcuk Haciomeroglu, University of Central Florida Eric Chicken, Florida State University Robert Schoen, Florida State University

Statistical Literacy as a Function of Course Format

Kelly Morehead, University of Central Florida, Debbie Hahs-Vaughn, University of Central Florida

6.0 Invited Speakers:

10:30 AM - 12:00 PM Signature 2

Robert Meyer, Research Professor at the Wisconsin Center for Education Research (WCER). He is the Director of the Value-Added Research Center (VARC) and known for his research on value-added modeling and evaluation methods. Over the last decade and a half, Meyer has worked closely with districts and states to develop and apply innovative statistical methods.

Damian Betebenner, Associate at The National Center for the Improvement of Educational Assessment in Dover, New Hampshire. His areas of specialization include applied statistics, particularly with regard to large scale data analysis. His current research interests center around longitudinal data analysis, specifically with regard to state and federal performance mandates.

7.0 Graduate Student Luncheon

12:15 – 1:15 PM Salon 20

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

Luncheon Sponsored by Dr. Bruce Hall

Graduate Student Coordinators:

Kristina N. LaVenia & Corine Huggins

8.0 Poster Session 1:30 - 3:15 PM Salon 21

 A Multidimensional Approach to Understanding the Implications of Religion/Spirituality on Adolescent Self-Esteem and Loneliness

Greer Findura University of Miami

 Differential Item Functioning for Minority Principals on a Math Content Knowledge Test

Anabelle Reta Sanchez Florida State University Frederick Sakon Florida State University

 Adult Cognitive Decline: Research on Origins and Compensation Methods

Lori A. Kress University of Central Florida

 Comparison of Standardized Mean Differences from Analysis of Variance Designs

Sanghyun Jeon

 African American College Student's Perceived Risk of Contracting HIV

> Chika Ofuani Florida A&M Elizabeth Gray Florida A&M

 The Role of Cognitive and Metacognitive Reading Comprehension Strategies in the Reading and Interpretation of Mathematical Problem Solving Text Applications: Reading Clinicians' Perceptions of Domain Relevance and Elementary Students' Cognitive Strategy Use

Taylar Clements University of Central Florida

8.0 Poster Session, continued 1:30 - 3:15 PM Salon 21

 A Simulation of Dependent Outcomes in Multiple-Endpoint Meta-analyses Using Q-statistics and Rejection Rates

Christopher Thompson Florida State University

Investigating Allocation Patterns in Teacher Bonuses:
 Florida's School Recognition Program

Meghan Hauptli Florida State University

Brooke Soden-Hensler Florida State University Laura B. Lang Florida State University

 The Importance of Self-Regulation for Students with Poor Academics

Padma Balmick University of Central Florida

A Summary of Results from the Florida Online Reading Professional Development (FOR-PD)

Cynthia Cassagnol University of Central Florida Vicky Zygouris-Coe University of Central Florida Bonnie Swan University of Central Florida

 A Summary of Results from the Florida Online Reading Professional Development (FOR-PD)

> Cynthia Cassagnol University of Central Florida Vicky Zygouris-Coe University of Central Florida Bonnie Swan University of Central Florida

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

8.1 Robert Meyer Breakout

1:30 - 3:15 PM Salon 19

 Robert Meyer, Research Professor at the Wisconsin Center for Education Research (WCER)

8.2 Issues in Assessment

1:30 - 3:15 PM Salon 20

 A Comparison of Modern Longitudinal Change Models with an Examination of Alternative Error Covariance Structures

> Jaime Maerten-Rivera, University of Miami Nicholas Myers, University of Miami

Comparison of Latent Growth Models with Different Time
 Coding Strategies in the Presence of Inter-Individually Varying
 Time Points of Measurement

Burak Aydin, University of Florida Nicholas Myers, University of Miami James Algina, University of Florida

 Comparing Cross Validated Classification Accuracies for Alternate Predictor Variable Weighting Algorithms

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

A Comparison of Logistic Regression Models for DIF Detection
 In Polytomous Items: The Effect of Small Sample Sizes And Non-Normality of Ability Distributions

Yasemin Kaya, University of Florida Walter L. Leite, University of Florida

M. David Miller, University of Florida

8.3 Students with Special Needs

1:30 - 3:15 PM Salon 21

 Assessing the Effectiveness of a Parent Education Program for Children with Disabilities

> Haiyan Bai, University of Central Florida Caroline Marrett, University of Central Florida Donna Leinsing, UCF Academy, University of Central Florida

The Impact on Teachers' Qualifications and Parents'
 Characteristics and Parental Learning Activities on Young,
 Immigrant Children's School Readiness

Young-Hee Park, Florida State University
Jin Koo -- Florida State University

 Job Satisfaction and Intention to Leave in Korean Childcare Teachers

> Sung-on Hwang, Florida State University Young-Hee Park -- Florida State University

 Growth Mixture Model: Identification of Latent Subpopulations for Vocabulary Development Trajectory

> Seung-Jin Lee, Florida State University Kyunghwa Cho, Florida State University Yanyun Yang, Florida State University

8.4 Damian Betebenner 3:30 – 5:15 PM Salon 19 Breakout

 Damian Betebenner, Associate at The National Center for the Improvement of Educational Assessment

8.5 Psychometrics

3:30 - 5:15 PM Salon 20

 Additive Models for Multitrait-Multimethod Data Assuming a Multiplicative Trait-Method Relationship: A Simulation Study

> Lidong Zhang, University of Florida Rong Jin, University of Florida Walter Leite, University of Florida James Algina, University of Florida

An Examination of Non-Normality of Latent Variables in CFA Models

Xinya Liang, Florida State University Haiyan Wu, Florida State University Yanyun Yang, Florida State University

Outcomes From a Randomized Trial: Comparison of Results
 When Treating Data as Continuous, Ordered Categorical, and
 Unordered Categorical

Kristina N. LaVenia, Florida State University Mark LaVenia, Florida State University Laura B. Lan, Florida State University Robert C. Schoen, Florida State University

 Equating Invariance for English Language Learner Students on a Fifth Grade State Science Exam

Anne Corinne Huggins, University of Miami

EVENING RECEPTION

5:30 p.m. - 7:30 p.m.

Signature 2 Ballroom

Sponsored by:

CORE K12 Education

Meet our Sponsor:

Dianne Bean

General Manager, Southeast

Brenda Bartholomew

Regional Research and Assessment Consultant

Technical Support by

Fady Boctor, elnstruction

Graduate Student Informal Social

Please join us in the lobby Thursday evening following the Evening Reception. At 7:45pm. As a group, we can take the I-Drive trolley to a nearby and affordable location for after-hours graduate student socializing."

Friday November 19

Invited Speakers

9:00 AM - 10:30 AM Signature 2

Putting Theory Into Practice - Evaluating Teacher Effectiveness in Hillsborough County Public Schools

David J. Steele,

Chief Information and Technology Officer/
Grant Director, Empowering Effective Teachers
(EET)

Anna Brown,

Director, Assessment and Performance, Empowering Effective Teachers (EET)

Friday November 19

9.2 Student Achievement

10:45 - 12:15

Salon 20

Student -- and School -- level Demographic and Achievement
 Determinants of the Ninth Grade Algebra I Placement

Will Tyson, University of South Florida Rheta Lanehart , University of South Florida

 Investigating Race and Ethnicity as Predictors of 8th Grade Students Math FCAT Scores; A Multilevel Study Examining the Achievement Gaps

> Claudia Güerere, University of South Florida Andrew Gump, University of South Florida George Macdonald, University of South Florida

 The Achievement Gap: A 5 by 4 Factorial MANOVA for GPA, NRT, Writing and Teach Recommendations
 George MacDonald, University of South Florida

Brian Mann, University of South Florida

 Adolescent Temperament, Learning Styles, and Course Performance

> Ekaterina Rybakova, Florida State University Shelbie Witte, Florida State University

Friday November 19

9.3 Psychometrics 2

10:45 - 12:15

Salon 21

A Grounded Theory of Connectivity and Persistence in a Limited Residency Doctoral Program

> Steven R. Terrell, Nova Southeastern University Martha M. Snyder, Nova Southeastern University Laurie A. Dringus, Nova Southeastern University Elizabeth Maddrey, Kaplan University

Multilevel IRT Approach to Detect Differential Item Functioning for Mixed Tests

Burcu Atar, Hacettepe University

The Effect Size Indices in Regression Model

Rae Seon Kim, Florida State University Betsy Jane Becker, Florida State University

Examining the Relationship Between Item Difficulty of a Reading Test and Differential Item Functioning

> Jin Koo, Florida State University Betsy Jane Becker -- Florida State University

FERA Luncheon 12:30 – 2:00

Salon 7/8

Annual Business Meeting and Awards Luncheon Sponsored by:

Pearson Learning Assessments Meet our Sponsor: Michael Keeton

Michael Keaton

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