

# Florida Educational Research Association

## ***59<sup>th</sup> Annual Meeting***

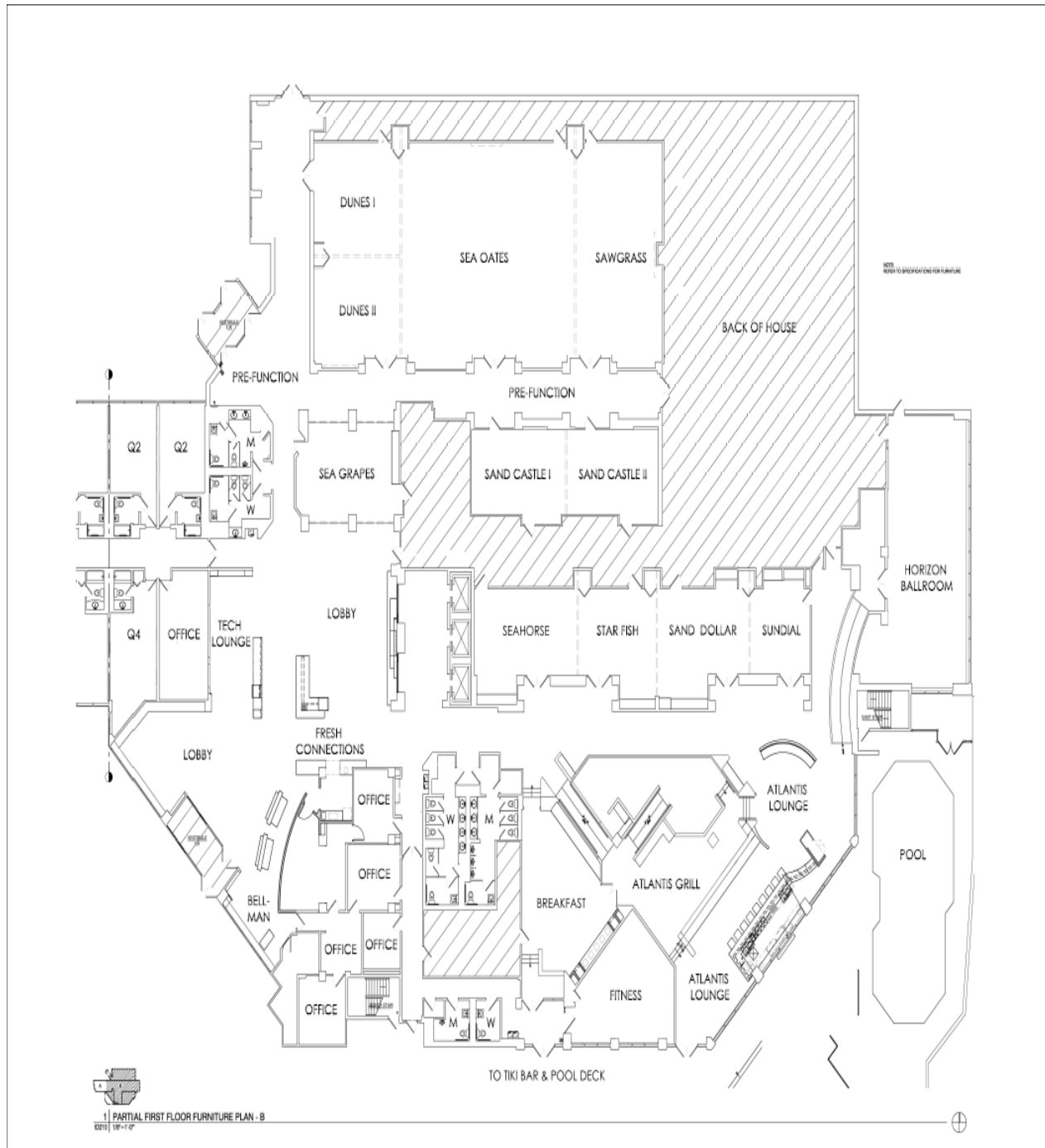


*The Hilton Cocoa Beach Oceanfront  
Cocoa Beach, Florida*

**November 19-21, 2014**

# Hotel Floor Plan

## *The Hilton Cocoa Beach Oceanfront Cocoa Beach—First Level*



**REGISTRATION**

**8:00 AM – 5:00 PM**

**Registration Desk**

## **Program Booklet**

*Sponsored by:*

**College of Education**

**Florida Atlantic University**

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**Coffee Break**

**8:00 AM – 8:30 AM**

**Seagrapes**

## **Coffee Break and Posters**

*Sponsored by:*

**College of Education**

**University of Central Florida**

**Poster Session: The College Experience**

***Just Eat It: The Examination of the Sociological Factors that Influence the Eating Habits of College Students***

- Alexandra Minnick, University of Central Florida

***GEMS: Mentoring Female Undergraduates in STEM Majors***

- Melissa A. Dagley, Andrea M. Rediske (presenter), Cynthia Young, Michael Georgiopoulos, University of Central Florida

***Early Entrance to College and the Impact on Self-Esteem***

- Debra Rosenblum, Maria Vasquez Colina, Florida Atlantic University

(Posters continue on the next page.)

**Poster Session: Emotion, Beliefs, and Experiences**

***A Phenomenological Investigation of the Lived Experiences of Haitian Men Who Have Completed Their Doctoral Degree***

- Willys Michel, University of Central Florida

***The Multi-Faceted Role of Teacher Beliefs***

- Krystal Sellers, University of Central Florida

***Meta-Theory of Data on Emotions and Learning: The Value of Interdisciplinarity***

- Sally A. Eliot, University of Central Florida

***Reconceptualizing the Construct in Language Assessment from a Dynamic and Complex Perspective***

- Ren Liu, University of Florida

Posters will be on display throughout the day.  
Presenters will be available for discussion at coffee breaks.

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**Pre-Conference Session I**

**8:30 AM – 10:15 AM**

**Sea Oats**

**Welcome**  
**Salih Binici, President**

**Special Topics and Applications in Mixed Methods: An Overview of some Recent  
Advances in Mixed Methodology**

**Speakers: Isadore Newman, Ph.D., Florida International University**  
**John H. Hitchcock, Ph.D., Indiana University**

**Moderator: Samuel Whitten, Hillsborough County Schools**  
**Organizer: Wendy Dickinson, Ph.D., Manatee County Schools**

Dr. Isadore Newman is the Director of Research and Graduate Studies in the College of Education, Florida International University. He is a Distinguished Professor Emeritus at The University of Akron,

Akron, Ohio, where he was on the faculty for thirty-five years and worked as an adjunct professor in the Department of Psychiatry at the medical school.

Dr. John H. Hitchcock is associate professor of Instructional Systems Technology within Indiana University's School of Education, and Director of the Center for Evaluation & Education Policy. He holds a Ph.D. in educational psychology and methodology, a C.A.S. in educational research and program evaluation and a M.S. in educational psychology and statistics, all from University at Albany, State University of New York (SUNY).

Dr. Hitchcock is an expert in research design and associated analyses, program evaluation, and technical assistance, specializing in mixed-methods evaluation design and analyses. He has served as a principal investigator (PI), methodological lead and content expert for the What Works Clearinghouse (WWC) at the Institute of Education Sciences (IES), for a review of interventions designed for children with emotional-behavioral disorders. He was on the panel of national experts in single-case design (SCD) that drafted SCD pilot standards. Dr. Hitchcock was also co-PI of two randomized controlled trials funded by the IES Regional Education Laboratory (REL) network as well as other projects. He has worked with other agencies including ICF International, Mathematica Policy Research, American Institutes for Research (AIR), and Education Development Center, Inc. Dr. Hitchcock has co-authored more than 30 scholarly publications in such journals as *Journal of School Psychology*, *Journal of Mixed-Methods Research*, and *Practical Assessment, Research and Evaluation*, among others.

**Description:** This presentation will discuss the contemporary philosophical and methodological developments related to mixed methods research design, and explain how they can be linked to earlier historical works from giants such as Sir Francis Bacon and Thomas Bayes. The focus of our presentation will be on identifying the characteristics of credible research. (1) We will deal with topics such as the need for consistency between the purpose of a research endeavor, formally stated questions, design, analyses, quality of data, replicability and trustworthiness. (2) We will also review the concept of a nomological network, and its relationship to exploratory and confirmatory analyses, hard and soft modeling, and three types of research syntheses (quantitative, qualitative and mixed methods). (3) Combining the ideas of a nomological network with research consistency, we offer a basis for more fully integrating qualitative and quantitative data analyses by discussing how “quantitized” information can be examined via the generalized linear model and meta-inferences.

A brief discussion of some common misconceptions regarding statistical significance, effect size, interval estimation, testing non-nil nulls, and replicability versus statistical significance will follow. In conclusion, we will tie these ideas back to a mixed methods perspective of rigorous research, both when thinking through individual studies and programs of study. Finally, we will also explore with the audience the implications of these concepts for training the next generations of researchers.

**Welcome**  
**Betsy Becker, President Elect**

**Using Meta-analyses for Policy Decisions**

**Speakers: Ariel Aloe, Ph.D., University of Northern Iowa**  
**Members of Synthesis Research Group (SynRG), Florida State University**

Dr. Ariel M. Aloe is an Assistant Professor and Associate Assessment Coordinator in the College of Education at University of Northern Iowa. He earned a M.S. in Statistics and a Ph.D in Measurement and Statistics from Florida State University. He has published on effect-size measures for complex designs and other issues related to meta-analysis. Aloe serves as the co-chair of the Campbell Collaboration Methods Group, and has served on review panels for both the National Science Foundation and Institute for Education Sciences.

Synthesis Research Group is an international collection of scholars committed to the study of methods for quantitative research synthesis. SynRG was founded by Betsy Becker in the 1990's at Michigan State University and now resides at Florida State University.

**Description:** When attempting to solve a problem of practice we are often required to rely on previous studies that investigate the problem at hand and/or give alternative solutions to the problem. Meta-analysis is a research technique that has the potential to influence policy, practice, and future research. The overall goal of this session is to provide a better understanding of how results of meta-analyses can be useful in solving problems of practice. A secondary goal is to familiarize graduate students, school leaders, and faculty with a systematic approach that can help users contextualize research findings.

**Coffee Break and Posters**  
*Sponsored by:*  
**College of Education**  
**University of South Florida**

Poster presenters will be available for discussion during this break.

**Opening Session**

**10:30 AM – 12:00 PM**

**Sea Oats**

**Opening Session – Sponsored by the Florida Department of Education**

**Current Developments in Designing Accessible Large-scale Assessments  
Claudia Flowers, University of North Carolina**

Moderator: Salih Binici, Florida Department of Education

Dr. Claudia Flowers is a Professor in the Department of Educational Leadership at the University of North Carolina, Charlotte. She is a member of the Florida Department of Education's Technical Advisory Committee for FCAT 2.0 and End of Course Examinations.

**Description:** In the revision of the *Standards for Educational and Psychological Testing*, the most substantially rewritten standards focused on fairness issues. **Dr. Flowers** demonstrates how large-scale assessments are addressing issues of fairness in testing for all students. She will share examples that illustrate how fairness standards are being implemented in practice.

Discussant: Vince Verges, Florida Department of Education



**Updates on the Florida Standards Assessments  
Vince Verges, Florida Department of Education**

Moderator: Kathleen Dailey, St. Lucie Public Schools

Vince Verges is the assistant deputy commissioner at the Division of Accountability, Research, and Measurement.

**Description:** This session will cover the updates on the new Florida Standards Assessments and state accountability and school grades.

**Lunch Buffet**

**12:00 PM – 1:00 PM**

**Horizon**

## **Meet and Greet Opening Luncheon**

**(Ticket Required – Check at FERA Registration Desk)**

***Sponsored by:***

**College of Education**

**Florida State University**

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**Invited Speaker**

**1:00 PM – 2:30 PM**

**Sea Oats**

**Sponsored by**

**AIR and Data Recognition Corporation**

**Benchmarking and Design Effects in District and State Assessments**

**Gary Phillips, Ph.D., American Institutes for Research**

**Moderator: Samuel Whitten, Hillsborough County Public Schools**

Gary Phillips is vice president and Institute Fellow at American Institutes for Research. He conducts research that advances the state-of-the-art in statistical and psychometric techniques, including work on statistical linking and international benchmarking. He received his PhD from the University of Kentucky with joint training from the College of Education and Department of Statistics. He is the author of several hundred conference paper presentations and publications in journals such as the *Educational Researcher*, *Educational Measurement: Issues and Practice*, and *Applied Psychological Measurement*. Dr. Phillips previously served as the Acting Commissioner of the National Center for Education Statistics (NCES), U.S. Department of Education where he was a member of the Senior Executive Service and directed the work of the National Assessment of Educational Progress (NAEP), the Trends in International Mathematics and Science Study (TIMSS), and the Program for International Student Assessment (PISA).



**Description:** Dr. Phillips will discuss how sampling design effects contribute to unrecognized error in large-scale assessments. In particular, he will show how design effects contribute to underestimating statistical power, underestimating sample-size requirements, underestimating standard errors, and overestimating state and district gains from year to year.

Discussants: Russell Almond, Florida State University  
Brandon McKelvey, Orange County Public Schools

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**Research on Teachers**

**1:00 PM – 2:30 PM**

**Dunes 1**

***Exploring Teacher Factors that Influence Preschool Teacher-Child Relationships at Head Start: A Grounded Theory Pilot Study***

- Shiyi Chen, Florida State University

***Preservice Teachers' Beliefs about the Effectiveness of Classroom Management Practices***

- Laura M. Jakiel, Florida State University

***Migrating Learning Management Systems: A Case of a Large Public University***

- Brenda R. Lee, University of Florida
- Albert D. Ritzhaupt, University of Florida

***Elementary School Pre-service Teachers' Achievement Behaviors and their Relationship to their Math Anxiety for Learning Mathematics***

- Maria D. Vasquez-Colina, Florida Atlantic University
- Joseph M. Furner, Florida Atlantic University
- Alyssa Gonzalez-DeHass, Florida Atlantic University

***Validation of the Survey of Preservice Teachers' Knowledge of Teaching and Technology: A Multi-institutional Sample***

- Albert D. Ritzhaupt, University of Florida
- Savannah Madley, University of Florida
- Anne Corrine Huggins, University of Florida
- Matthew Wilson, University of Florida
- Krista Ruggles, University of Florida

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**Research with Quantitative Techniques**

**1:00 PM – 2:30 PM**

**Dunes 2**

***Relationship between Extended Year Academic Program Participation and Elementary Students' Math and Reading Scores***

- Emily Plasencia, Hillsborough County Schools

***Does Separation Make a Difference? An Analysis of a Large District's Single Gender Middle Schools***

- Kimberley Lent, University of South Florida
- Samantha Hooper, Hillsborough County Public Schools

***Testing the Effectiveness of the MUML Estimation Method for Dyadic Data in Multilevel Structural Equation Models***

- Yu Su, University of Florida
- Walter Leite, University of Florida

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**Coffee Break**

**2:30 PM – 2:45 PM**

**Seagrapes**

**Coffee Break**

***Sponsored by:***

**Sherry DeSimone, Senior Account Executive**

**Kimberly Kraft, Senior Account Executive, State & Federal Accounts**

**Northwest Evaluation Association**

Poster presenters will be available for discussion during this break.

**Featured Session**

**2:45 PM – 4:15 PM**

**Sea Oats**

**Modeling Nonlinear Growth with Three Data Points**

**Akihito Kamata, Southern Methodist University**

Moderator: Insu Paek, Florida State University

Akihito Kamata is a Professor at Southern Methodist University (Department of Education Policy & Leadership, and Center on Research and Evaluation, Simmons School of Education & Human Development; Department of Psychology, Dedman College of Humanities and Sciences) since August 2013. Prior to joining SMU, Dr. Kamata was on faculty at the University of Oregon (2009-2013) and Florida State University (1998-2009). He received his doctoral degree in Measurement and Quantitative Methods from Michigan State University in 1998. Dr. Kamata's primary research interest is psychometrics and educational and psychological measurement, focusing on implementation of item-level test-data analysis methodology through various modeling frameworks, including item response theory, multilevel modeling, and structural equation modeling. He did pioneering work on multilevel item response theory modeling, where item response data from individuals are nested within group units, such as schools. Other recent interests include effect-size measures for testlet modeling, reliability of growth trajectories in longitudinal data modeling, and Bayesian inference for complex psychometric models. Dr. Kamata was treasurer of FERA (2003-2005) and also served as president in 2008-09.

**Description:** This presentation will provide researchers alternative ways to model and estimate growth using three testing occasions. Growth models are demonstrated in the context of curriculum-based measurement (CBM) using the fall, winter, and spring passage reading fluency (PRF) benchmark assessments. A brief technical overview will cover (a) the limitations for a growth model with three time points, (b) how non-linear growth can be modeled (and associated limitations), and (c) model identification rules for growth modeling in the context of confirmatory factor analysis with a mean structure. A piecewise growth mixture model of nonlinear growth for 1-3 classes will be used to explain individual differences and capture heterogeneity of growth patterns. Finally, Kamata will interpret the results, and give implications of different methods for modeling nonlinear growth with three occasions.

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**Sponsored Presentation**

**2:45 PM – 3:30 PM**

**Sandcastle I**

***Sponsored by Northwest Evaluation Association***

***How Learning Progress in Schools Can Be Measured and Leveraged for Improvement***

- Andrew Hegedus, Senior Research Manager, Northwest Evaluation Association

**Research in Higher Education**

**2:45 PM – 4:15 PM**

**Sandcastle II**

***Female Undergraduate STEM Persistence: A Pilot Study on the Role of Living and Learning Communities***

- Kari Roberts, Florida State University
- Samantha Nix, Florida State University
- Roxanne Hughes, Florida State University

***Recruitment of Hispanic Undergraduates to Become Mathematics Teachers through a Learning Assistant Program***

- Maria Fernandez, Florida International University
- Esther F. Joseph, Florida International University

***Campus Involvement Programming: Understanding the Needs and Interests of International Undergraduate Students***

- DeLaine Priest, University of Central Florida
- Caroline Pratt Marrett, University of Central Florida
- Haiyan Bai, University of Central Florida

***An Analysis of the Changing Models of Dissertations in Practice (DiP) from Redesigned Professional Practice Doctorates***

- Valerie Anne Storey, University of Central Florida

***Leadership and Learning beyond the Mathematics Classroom***

- Christine Higgins, Florida Atlantic University
- Joseph Furner, Florida Atlantic University

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**Featured Address**

**4:15 PM – 5:45 PM**

**Sea Oats**

**Developing the Florida Teacher Certification Examinations (FTCE) and Florida Educational Leadership Examination (FELE)**

**Lauren White, Florida Department of Education**

Moderator: Süleyman Olgar, Florida Department of Education

Lauren White is Senior Test Developer in the Office of Postsecondary Assessment at the Florida Department of Education. She received her M.S./Ed.S. in Mental Health Counseling from Florida State University, and is currently pursuing a degree in Measurement and Statistics at FSU.

**Description:** Lauren White will discuss the current test development process for the FTCE/FELE program. The presentation will give an overview of the 1.5-2 year development cycle, and provide an in-depth explanation of each step in the test development process, based on the Standards for Educational and Psychological Testing. She will explain the history and foundation for the Department of Education's current development process, and will outline how the process has been tailored to fit the needs of the FTCE/FELE program.

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**Reception**

**7:00 PM – 8:30 PM**

**Pool Deck A**

## **Evening Reception**

*Sponsored by:*

**Laura Bresko, President and CEO**

**Brenda Bartholomew, District Liaison**

**Progress Testing, Inc.**

*and*

**Jeff Skene, Strategic Development Consultant**

**Thinkgate**

**REGISTRATION**

**8:00 AM - 4:00 PM**

**Registration Desk**

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**Coffee Break**

**8:00 AM – 8:30 AM**

**Horizon**

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## **Coffee Break, Breakfast, and Poster Session**

*Sponsored by:*

**AIR and DRC**

**Poster Session: Quantitative Methods**

***Testing Scale Items and Dimensional Structure of Professional Commitment***

- Jirawat Tansakul, Chulalongkorn University and Southern Methodist University
- Akihito Kamata, Southern Methodist University
- Chalie Patarapichayatham, Southern Methodist University

***Behavior of the Mantel-Haenszel Procedure in the Detection of DIF for Items Having Extreme Psychometric Properties and its Comparison with the Logistic Regression Procedure***

- Abdullah Alghamdi, Florida State University
- Insu Paek, Florida State University
- Yan Xia, Florida State University
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***ML Estimation and MCMC Estimation Comparison---A Random-effects Model in Meta-analysis***

- Tingxuan Li , Florida State University
- Azmat Rasul, Florida State University
- Young Sun Lee, Florida State University
- Betsy Jane Becker, Florida State University

(Posters continue on the following page.)

***Investigating the Performance of Free IRT Programs for the Estimation of the 2-PL Model: TAM, LTM, and using WinBUGS***

- Taeyoung Kim, Florida State University
- Insu Paek, Florida State University
- Nese Ozturk Gubes, Hacettepe University

***A Comparison between BMIRT and IRTPRO---An Example of a Multidimensional 2PL Model***

- Tingxuan Li , Florida State University
- Nese Ozturk Gübeş, Hacettepe University
- Insu Paek, Florida State University

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**Invited Speaker**

**8:30 AM – 10:15 AM**

**Sea Oats**

**Evidence Centered Design for Licensing: A Participatory Tutorial**

**Russell Almond, Florida State University**

Moderator: Akihito Kamata, Southern Methodist University

Russell Almond is associate professor in Measurement and Statistics in the College of Education at Florida State University. Before coming to Florida State he was Research Scientist at Educational Testing Service. He received his doctorate in Statistics from Harvard University. His pioneering work with Robert Mislevy and Linda Steinberg on Evidence Centered Design (ECD) is featured in a book to be published at the end of this year.

**Description:** Evidence-centered assessment design (ECD) provides a language for talking about assessments and a design process that encourages users to think about aspects of validity during the earliest stages of the design process. In particular, ECD encourages assessment designers to think beyond traditional item formats and purposes to incorporate performance tasks, simulations and diagnostic models. In ECD, the assessment design is divided into a number of components called models. Models are assembled into a conceptual assessment framework (CAF), which forms a means of documenting the assessment design. This talk goes over the basic models of the CAF and provides examples of their use. It also includes an interactive small-group activity where the participants will sketch out an assessment design for a driver's examination.

**Student Achievement and Advocacy**

**8:30 AM – 10:15 AM**

**Dunes 1**

***Validation of a Progress Monitoring Assessment System for Improving Student Performance***

- Peter L. Zsiga, St. Lucie County Schools
- Kathleen Dailey, St. Lucie County Schools

***Classroom Discourse: Becoming an Advocate for All Student Voices***

- Todd A. McCardle, University of Florida

***Medical Pipeline Program - Building a Sustainable Diverse Learning Community***

- Lisa Barkley, University of Central Florida
- Bobby Jeanpierre, University of Central Florida
- Carolyn Hopp, University of Central Florida
- Jennifer Dames, Lead Teacher, Coquina Elementary

***Charter Systems in Georgia***

- Mark A. Partridge, Florida State University
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**Sponsored Presentation**

**8:30 AM – 9:15 AM**

**Sandcastle I**

***Key Factors to Consider When Developing High Quality Assessments***

- Laura Ann Kump, Director of Content Services, Scantron
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**Sponsored Presentation**

**9:20 AM – 10:10 AM**

**Sandcastle I**

***Efficacy Through Assessment***

- Heleyna Graham, Business Development Manager, CTB/McGraw-Hill Education



**Educational Leadership**

**8:30 AM – 10:15 AM**

**Sandcastle II**

***Revision of Initial and Continued Approval Standard Guidelines for Educational Leadership Programs***

- Lee Baldwin, University of Central Florida
- Rosemarye Taylor, University of Central Florida
- Bonnie Swan, University of Central Florida

***Multiple Pathways to the Principalship: A 10-year Retrospective Cohort Analysis of the Principal Workforce in Florida***

- Jessica Sidler Folsom, Florida State University
- La'Tara Osborne-Lampkin, Florida State University
- Carolyn Herrington, Florida State University

***A Statewide Analysis of Florida Districts' Principal Training Programs***

- La'Tara Osborne-Lampkin, Ph.D. Florida State University
  - Jessica Sidler Folsom, Florida State University
  - Carolyn Herrington, Florida State University
  - Stephan Cooley, Florida State University
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**Coffee Break**

**10:15 AM – 10:30 AM**

**Seagrapes**

**Coffee Break**

***Sponsored by:***

**Mark Esstman, SE Region Business Development Manager**

**Heleyna Graham, Business Development Manager**

**Stephanie Seemann, Senior Assessment Sales Representative**

**CTB/McGraw-Hill Education**

Poster presenters will be available for discussion during this break.

**Keynote Speaker**

**10:30 AM – 12:00 PM**

**Sea Oats**

**The Meta-Analytic Big Bang**

**William Shadish, University of California, Merced**

Moderator: Betsy Jane Becker, Florida State University

William Shadish is Professor and Founding Faculty at the University of California, Merced. He received his bachelor's degree in sociology from Santa Clara University in 1972, and his M.S. (1975) and Ph.D. (1978) degrees from Purdue University in clinical psychology, then completed a postdoctoral fellowship in methodology and program evaluation at Northwestern University. His research interests include experimental and quasi-experimental design, the empirical study of methodological issues, and the methodology and practice of meta-analysis. He is a founding member and 2014 President of the Society for Research Synthesis Methodology. He has received many awards, including the 2009 Frederick Mosteller Award for Lifetime Contributions to Systematic Reviews from the Campbell Collaboration, and the 2011 Ingram Olkin Award for Lifetime Contributions to Systematic Reviews from the Society for Research Synthesis Methodology.

**Description:** In 1976, Gene Glass coined the term meta-analysis, defining it as the analysis of statistical summaries from published studies. The growth of meta-analysis since then has been nothing short of explosive—in early 2014, a Google search of the phrase “meta-anal” yielded about 15,800,000 hits. This talk will review some of the factors that gave rise to modern meta-analysis in the 1970s, especially as recounted by Glass, Robert Rosenthal and Frank Schmidt. Shadish will also use citation network analysis to paint a picture of this meta-analytic big bang from its origins to its current contexts and structure.

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**LUNCH ON YOUR OWN**

**12:00 PM – 1:00 PM**

(Except for Graduate Students!!)

**Graduate Student Luncheon**

**12:00 PM – 1:00 PM**

**Horizon**

**FERA Graduate Student Business Meeting Luncheon**

**Sponsor: Bruce Hall, Professor Emeritus, University of South Florida**

**Graduate Student Coordinators:**

Sungur Gurel, University of Florida

Ahmet Serhat Gozutok, Florida State University

**Invited Speakers:**

Ariel Aloe, Assistant Professor of Educational Psychology and Foundations in the College of Education, University of Northern Iowa

Russell Almond, Associate Professor of Measurement and Quantitative Methods in the College of Education, Florida State University

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**Featured Address**

**1:00 PM – 2:30 PM**

**Sea Oats**

**The New IBTP Item Bank and Testing Platform**

**Sally Sanders, Florida Department of Education**

Moderator: Ina Helmick, Hillsborough County Public Schools

Sally Sanders serves as the Project Manager for the Item Bank and Test Platform with the Florida Department of Education. She holds a B.S. degree from the University of Florida and an M.S. degree from Montana State University. She has 20 years of experience as a Chemistry teacher in Florida and nine years of experience in state-level curriculum and assessment development and administration.

**Description:** Sally Sanders will be discussing the new Item Bank and Testing Platform (IBTP) that just opened this year for all districts to use to build EOC assessments.

**Quantitative Research “Grab Bag”**

**1:00 PM – 2:30 PM**

**Dunes 1**

***Using Decision Theory to Allocate Educational Resources***

- Russell G. Almond, Florida State University

***STEM and ICT Coursetaking Experiences of Florida High School Students in Career Academies***

- Shetay Ashford, University of South Florida
- Reginald Lee, University of South Florida

***Development and Validation of the Abbreviated Technology Anxiety Scale (ATAS)***

- Albert D. Ritzhaupt, University of Florida
- Savannah Madley, University of Florida
- Anne Corrine Huggins, University of Florida
- Matthew Wilson, University of Florida
- Krista Ruggles, University of Florida

***A Meta-analysis: Relation between Automated and Human Scoring in Writing Assessment***

- Ji Yeo Yun, Florida State University
- Abdullah Alghamdi, Florida State University
- Seyfullah Tingir, Florida State University

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**Structural Equation Modeling**

**1:00 PM – 2:30 PM**

**Sandcastle I**

***Comparison of Three Bi-factor Models: A Simulation Study***

- Ahmet Serhat Gozutok, Florida State University
- Seyfullah Tingir, Florida State University
- Yanyun Yang, Florida State University

***Evaluating Pearson and Tetrachoric Correlations in Exploratory Factor Analysis with Dichotomous Variables: A Monte Carlo Simulation***

- Sungur Gurel, University of Florida
- Hakan Atilgan, Ege University

***Alternative Approaches to Exploratory Factor Analysis with Covariates***

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

***Evaluation of Model-data Fit Statistics in MIRT and SEM for Binary Data***

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

***Investigating the Saturated Model Method for Data with Missingness Due to Latent Variables***

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

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**Prediction and Identification**

**1:00 PM – 2:30 PM**

**Sandcastle II**

***Predicting Student Achievement and Behavioral Outcomes through HSGI Program Intervening Factors: A Hierarchical Modeling Technique for Estimating Teacher Effectiveness***

- Bidya Raj Subedi, The School District of Palm Beach County
- Randy Powell, The School District of Palm Beach County
- Nancy Reese, The School District of Palm Beach County

***Identifying the Teaching, Learning, and Motivation Misconceptions of Graduate Students in Education***

- Morgan A. McAfee, University of Central Florida
- Bobby Hoffman, University of Central Florida

***Using Evidence-Based Decision Trees Instead of Formulas to Identify At-Risk Readers***

- Sharon Koon, Florida Center for Reading Research, Florida State University
- Yaacov Petscher, Florida Center for Reading Research, Florida State University
- Barbara R. Foorman, Florida Center for Reading Research, Florida State University

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**Coffee Break**

**2:30 PM – 2:45 PM**

**Seagrapes**

**Coffee Break**

***Sponsored by:***

**Amplify**

**Lisa Carter, Vice President, Education Partnerships**

**Visual displays for mixed methods applications**

**Wendy B. Dickinson, Manatee County Schools**

Moderator: Betsy Jane Becker, Florida State University

Wendy B. Dickinson (Ph.D., University of South Florida) is the VAM Specialist/Statistician for Manatee County Schools, Florida. Dr. Dickinson has a B.A. in Business Administration, a Master's degree in Art Education, and a doctorate degree in Curriculum and Instruction with emphasis in Educational Measurement and Research and a Cognate in Fine Arts. Dr. Dickinson served as President of the Florida Educational Research Association (2008-2009) and currently is the Chairperson for Professional Development and Training for FERA. She recently developed and presented a *Careers in the Arts* webinar for the Florida Department of Education and Florida Association of Arts Educators.

Dr. Dickinson has made more than 80 refereed presentations at regional, national, and international research conferences on research and statistical methodology, authentic assessment, psychometrics and instrumentation development, program evaluation, graphical display, and computer programming. She has also been an external evaluator for federal agencies such as the National Science Foundation and National Aeronautics and Space Administration. As a practicing studio artist, she has exhibited her 2- and 3-dimensional prints and book arts in numerous regional, state, and national venues.

**Description:** Data display is a powerful tool for researchers; enabling the visual investigation of how variables behave. Creating visual graphics aids in identification of these behavioral patterns, exposing variable relationships, and the underlying phenomena. Pictorial images provide a story without relying on words or numbers, analogous to a visual shorthand process. By creating narrative content with imagery, we make visual messages readily available to observers from multiple cultures and experiences. Elements of color, composition, and content thus transcend mere words or numbers to richly describe research phenomena. Using the power inherent in visual imagery, we can examine and incorporate research results for better educational decision-making.

This presentation will showcase historical and contemporary examples of iconic imagery and graphical display, with regard to message, aesthetics, and impact of the underlying information. For example, the Pioneer 10 diagram, with its simple engraved line quality and minimal text, provides a rich narrative of humans and intergalactic travel. Examples from such researchers as Playfair, Tukey, Tufte, and Wainer will be shared, culminating with the presentation of recent graphing applications in the field of mixed methods educational research. SAS/graph applications and coding are used to demonstrate contemporary graphical display procedures and outputs.

**Sponsored Presentation**

**2:45 PM – 3:30 PM**

**Dunes 1**

***Creating a Manageable Framework for Using Assessment Data Effectively: Tying Instruction to Assessment to Instruction***

- Michael Sell, Education Solutions Strategist, Amplify

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**Psychometric Studies**

**2:45 PM – 4:15 PM**

**Dunes 2**

***Evaluating Approximate Fit Indexes of Measurement Invariance Testing Across Multiple Groups with Binary Data***

- Anh Kellermann, University of South Florida

***Examining the Type I Error and False Discovery Rates for Pairwise and Composite Group DIF Comparisons***

- Ibrahim H. Sari, University of Florida
- Anne Corinne Huggins-Manley, University of Florida

***Evaluating the Sampling Performance of Exploratory and Cross-Validated DETECT Procedure with Imperfect Models***

- Cengiz Zopluoglu, University of Miami

***Applied DIF Detection Using MIMIC Models: Comparing Scale Purification and Pure Short Anchor Procedures Using Real Data***

- Brandon Craig, University of South Florida

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**Symposium**

**4:15 PM – 5:45 PM**

**Sea Oats**

***Florida Educator Certification Assessments (FTCE and FELE): Before and After Race to the Top***

- Phil Canto, Bureau Chief of Postsecondary Assessment, Florida Department of Education
- Süleyman Olgar, Psychometric, Scoring & Reporting Director, Florida Department of Education
- Önder Köklu, Ph.D., Scoring and Reporting Coordinator, Florida Department of Education

**Research with Qualitative Techniques**

**4:15 PM - 5:45 PM**

**Dunes 1**

***Chinese Immigrant Parents' Perspectives of Linguistic Transactions in Florida K-12 Schooling Communities***

- Soria Colomer, University of South Florida
- Linyu Yu, University of South Florida

***Cultural Traditions and Curriculum Development: A Comparison between the East and West***

- Mingquan Yang/杨明全, University of Central Florida
- Shichun Song, Rollins College

***Parent Language Input to Young Children: Role of Communicational Context***

- Galiya Tabulda, Florida State University
- Beth M. Phillips, Florida State University

***Effects of Captions and Time-Compressed Video on Learner Performance and Satisfaction***

- Albert D. Ritzhaupt, University of Florida
- Robert Davis, University of Florida
- Raymond Pastore, University of North Carolina Wilmington

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**Reception**

**7:00 PM – 8:30 PM**

**Pool Deck A**

## **Evening Reception**

***Sponsored by:***

**Michael Keeton, Measurement Specialist,  
Florida and Puerto Rico Learning Assessments  
Andy Messenger, State Services**

## **Pearson**



**REGISTRATION**

**8:30 AM – 10:00 AM    Registration Desk**

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**Coffee Break**

**8:00 AM – 8:30 AM    Seagrapes**

**Coffee Break**

*Sponsored by:*

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**Crises in Education**

**8:30 AM – 10:15 AM    Sea Oats**

***Florida's 100 Lowest Performing Elementary Schools***

- Janet Mahowski, Pinellas County School District
- Julie McLeod, Hillsborough County School District
- Alice Blanco, Indian River School District
- Courtney Zmach, Collier County School District
- Naomi VanAmburg, Lake County School District
- Alan Peltz, Volusia County School District
- Tina Ruybalid, St. Lucie County School District

***New School Grades: Will They Again Just Be a Measure of Poverty?***

- Ronald Dailey, Hillsborough County School District
- Kathleen Dailey, St. Lucie Public Schools

***Project "Safety NET": Networking Educational Teams to Meet the Needs of All Learners***

- Mary E. Little, University of Central Florida
- Taylar Wenzel, University of Central Florida
- Debbie Hahs-Vaughn, University of Central Florida
- Lauren Patrusky, University of Central Florida
- Lourdes Smith, University of Central Florida

***Boys in Crisis: The Impact of a Voluntary Mentorship Program on Student Outcomes among High-Risk Males***

- Samantha Hooper, Hillsborough County School District
- Kimberly Lent, College of Public Health, University of South Florida

***Exceeding Expectations – How are Title I Schools Beating the Odds?***

- Julie McLeod, Hillsborough County School District
- Jan Mahowski, Pinellas County Schools
- Kathi Harmon, Seminole County Public Schools

---

**Research on Teachers**

**8:30 AM – 10:15 AM**

**Dunes 1**

***Geometry Professional Development Series for Teachers: Impact on Mathematical Knowledge for Teaching Geometry***

- Erhan Selcuk Haciomeroglu, University of Central Florida
- Janet B. Andreasen, University of Central Florida

***An Investigation of Turkish Pre-Service Teachers' Knowledge of Technology, Pedagogy And Content***

- Duygu Cetin-Berber, University of Florida
- Ali Riza Erdem, Pamukkale University, Turkey

***Growing Our Own: Florida Male and Minority Elementary Teachers' Perceptions of Project PRIDE***

- Soria Colomer, University of South Florida
- Jhon Cuesta, University of South Florida
- John Lontas, University of South Florida
- Tom Freijo, Polk State College

***Factors Affecting Teacher Turnover in Florida Charter Schools***

- Wei Xu, University of Florida
- M. David Miller, University of Florida
- Nancy Thornqvist, University of Florida

---

**Meta-analysis of Complex Studies**

**8:30 AM – 10:15 AM**

**Dunes 2**

***Organizing Effect Sizes***

- Ariel Aloe, University of Northern Iowa

***Assessing Meta-Analysis Results from Regression Models of Different Sizes***

- Christopher G. Thompson, Florida State University
- Ariel Aloe, University of Northern Iowa

***Reporting of Complex Models***

- Ahmet Serhat Gozutok, Florida State University
- Abdullah Alghamdi, Florida State University
- Betsy Jane Becker, Florida State University

***Post hoc Effect Sizes for Continuous Predictors in Multi-Level Models***

- Betsy Jane Becker, Florida State University

***Summaries of Dependent Regression Slopes***

- Tracey D. Gunter, Florida State University

---

**Modern Measurement Issues**

**10:15 AM – 11:45 AM**

**Sandcastle I**

***An Item-Level Instructional Sensitivity Study of an Angle Measurement Test***

- Barbara King, Florida International University
- Kyle Perkins, Florida International University
- Carmen Petrick Smith, University of Vermont

***Testing the Importance of Individual Growth Curves in Predicting Performance on a High-Stakes Reading Comprehension Test in Florida***

- Yaacov Petscher, Florida Center for Reading Research, Florida State University
- Sarah Kershaw, Florida Center for Reading Research, Florida State University
- Sharon Koon, Florida Center for Reading Research, Florida State University
- Barbara R. Foorman, Florida Center for Reading Research, Florida State University

***Performance of Answer Copying Indices with Different Types of Response Outcomes and IRT Models***

- Cengiz Zopluoglu, University of Miami

***Absolute Fit and Relative Fit of Cognitive Diagnosis Models***

- Jinxiang Hu, University of Florida
- M. David Miller, University of Florida
- Anne Corinne Huggins-Manley, University of Florida

***Evidence from a Simulation Study and Randomized Controlled Trial on the Impact of Item Dependency in a Computer Adaptive Test of Reading in Florida***

- Yaacov Petscher, Florida Center for Reading Research, Florida State University
- Chengfu Zhou, Florida Center for Reading Research, Florida State University
- Barbara R. Foorman, Florida Center for Reading Research, Florida State University

---

**Statistical Methods**

**10:15 AM – 11:45 AM**

**Sandcastle II**

***The Interplay Between Visual Analysis and Multilevel Models in the Synthesis of Single-Case Studies***

- Eunkyeng Baek, University of South Florida

***Partial Least Squares Structural Equation Modeling (PLS\_SEM): Assessment Differences between Formative and Reflective Constructs***

- E. Lea Witta, University of Central Florida

***A Comparison of Three Approaches to Confidence Interval Estimation for Coefficient Omega***

- Jie Xu, Florida State University
- Yanyun Yang, Florida State University

***Multicollinearity Revisited***

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

FERA Luncheon

12:00 PM – 1:00 PM

Horizons

**Annual  
Business Meeting  
and  
Awards Luncheon**

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**Thanks to all of our  
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**We look forward to  
seeing you again next year.**

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FERA Board Meeting

2:00 PM– 4:00 PM

Executive Board Room

**In Memory**  
**of**  
**Russell P. Kropp**  
**1927 – 2012**

Russell P. Kropp was born in Tamaqua, Pennsylvania on July 11, 1927. He served in the U. S. Navy during World War II and later served in the U. S. Air Force. He received a research doctorate from the University of Illinois in 1953, and came to Tallahassee that year to accept a faculty position at Florida State University. During the next 42 years he served in a variety of faculty and administrative positions at FSU, spending many of those years associated with the Department of Educational Research and Testing within the College of Education. Professor Kropp retired from the university in 1995. He died on April 18, 2012.

He is credited with having conceptualized the purpose and function of FERA, and was a leader in the effort to establish FERA as a state-wide professional organization, circa 1956. Under his guidance, FERA was instituted on the premise that the myriad concerns facing schools are amendable to orderly, systematic inquiry, and that such inquiry can be nurtured and sustained through the collegial association of state and district-based educators, university professors and personnel in private and non-profit educational agencies. Dr. Kropp was the first editor of the *Florida Journal of Educational Research*, serving in that capacity from 1959 to 1964. He was one of only three individuals ever to serve twice as President of FERA, leading the organization as its first President in 1958-59 and again in 1982-83. Dr. Kropp has been an honorary member of the Florida Educational Research Association (FERA) since 1985.

FERA honored him by bestowing an annual award in his name. According to FERA By-Laws, the Russell P. Kropp Award is given “to recognize a policy maker or administrator engaged in education in the State of Florida who has demonstrated in an exemplary fashion the use of educational research or evaluation in educational decision making.” Asked in 1999 about the role he played in the development of FERA, he replied “. . . it enriched my life. . . . I always thought it was a noble and good work.”

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Newsletter Editors	Donna Buckner, Our Children's Charter Schools and Rehab Clinic Albert Ritzhaupt, University of Florida
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\*Don Lambert was installed in January 1980. Annie Ward was installed in November 1980.

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