Program

Florida Educational Research Association

63rd Annual Meeting

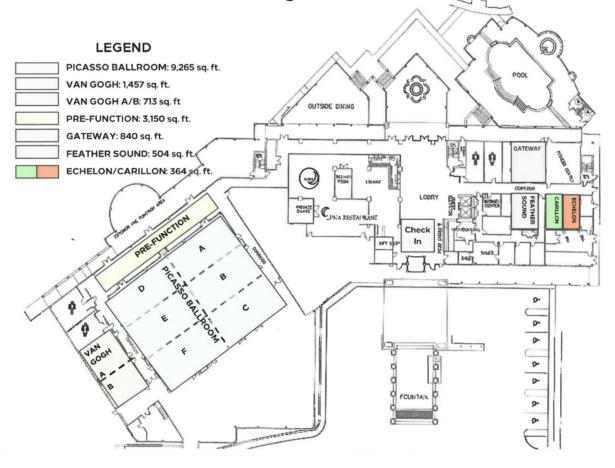


The Hilton St. Petersburg Carillon Park, St. Petersburg, FL

November 14-16, 2018

Hotel Floor Plan





This program is dedicated to Kathleen A. Dailey



IN MEMORY OF KATHLEEN ANNE DAILEY 1947 - 2018

Kathleen Anne Dailey of Fort Pierce, Florida, passed away on Sunday, May 13, 2018. Since 2010, she had served as the Director of Assessment and Accountability for St. Lucie County Schools. Prior to her position with St. Lucie County, she served as Coordinator of Program Evaluation, Title I, for Polk County Schools, and as Coordinator of Research Programs and Services in the Department of Mental Health, Law and Policy, within the Florida Mental Health Institute (FMHI) in Tampa. She took her doctoral course work in Measurement and Evaluation at the University of South Florida. While at USF, she served as an adjunct instructor for undergraduate Measurement for Teachers.

Kathy was highly active in FERA, supporting the organization in numerous ways. She could be found most every year at the FERA Annual Meeting, in the company of her loving husband, Ron Dailey. During the last decade, she enhanced FERA by her multi-year service as FERA Secretary, Chair of the Russell P. Kropp Award Committee, and Chair or Co-Chair of the Awards and Recognition Committee. Her service was always graciously given. Adding to this support for FERA were her professional presentations and her participation in various FERA functions.

Kathy was a competent and caring member of our educational community, liked and valued by all who knew her. Through her skill, hard work and diligence, she benefited the institutions she touched; and through her character, she enriched the lives of the people she touched.

Thank You to Our Sponsors!

American Institutes for Research Caveon, LLC Data Recognition Corporation Florida Atlantic University Florida State University Northwest Evaluation Association NSF-Advanced Technological Education-ATE Community QSR International University of Central Florida University of Florida University of Florida Robert F. Dedrick Albert D. Ritzhaupt A. Corinne Huggins-Manley Bruce Hall

8:00 am - 5:00 pm Pre-Function

8:30 am — 11:00 am 🛛 Van Gogh

PROFESSIONAL DEVELOPMENT SESSION

Introduction to Educational Data Mining

Workshop Facilitator:

Dr. Katerina M. Marcoulides, University of Florida

Description: This workshop is designed to provide attendees an introduction to methods used for data mining in educational research. The term *data mining* will be used in this workshop to refer to the process of selecting, exploring, and modeling large data sets to uncover previously unknown patterns and relationships. The goals of this workshop are to develop an understanding of various data mining approaches and to assess the utility of each approach.

Biography: Dr. Katerina M. Marcoulides is an Assistant Professor in the Research and Evaluation Methodology Program in the College of Education at the University of Florida. Her research focuses on the development and application of advanced data mining and modeling approaches for the analysis of complex educational data and considers ways in which the broader contexts of education can be studied through these new analytic approaches. Her substantive interests focus on the application of advanced modeling techniques to the study of developmental processes, with an emphasis on economically disadvantaged immigrant children.

REGISTRATION

11:00 am — 12:00 pm 🛛 Salon D/E

Modern Issues in Educational Program Evaluation

Speakers:

Dr. Anne E. Seraphine, University of Florida

Dr. David M. Miller, University of Florida

Description: Program evaluation plays a major role in assessing the merit and worth of educational programs at local, state, and national levels. Because the educational context is highly politicized, an effective evaluator should be aware of and responsive to current political and societal forces and trends, such as the call for greater accountability and the need to be culturally responsive in a culturally diverse society. The College of Education at UF is now offering a new online MAE major in Program Evaluation. The new major was designed to be responsive to the demands and needs of the current societal climate, particularly in terms of educational issues. In our address we will explore several approaches to evaluation that receive a heavy emphasis in our efforts to address societal needs. A few of these areas include methodological issues in assessing program outcomes, cost-benefit analysis, multicultural diversity and cultural responsiveness, and ethics.

Biography: Dr. Seraphine is a Clinical Assistant Professor in Research and Evaluation Methodology and Coordinator of an online Master's program in Program Evaluation in Educational Environments at the University of Florida. Dr. David Miller is a Professor of Research and Evaluation Methodology and Director of the School of Human Development and Organizational Studies in Education at the University of Florida. Both Dr. Seraphine and Dr. Miller have conducted a wide range of educational program evaluations in the State of Florida and beyond.

LUNCH ON YOUR OWN

12:00 pm – 1:00 pm

PSYCHOMETRIC METHODOLOGY I

1:00 pm — 2:30 pm Van Gogh A

Revisiting the unidimensional nominal response model for scoring missing responses

- A. Corinne Huggins-Manley, University of Florida
- Dee Duygu Cetin-Berber, Fresno Unified School District

Applying unidimensional models for semiordered data to scale data with neutral responses

- Sophie Cohn, Harlem Children's Zone
- A. Corinne Huggins-Manley, University of Florida

The effects of sample sizes and item types on 2pl/3pl irt estimates

- Ahmet Guven, Florida State University
- Xiaotong Yang, Florida State University
- Insu Paek, Florida State University
- Lanrong Li, Florida State University

Using inverse probability weighting in an explanatory item response model to adjust for itemlevel missingness - An illustrative study

- Sherry Zhou, University of Florida
- Walter L. Leite, University of Florida
- A. Corinne Huggins-Manley, University of Florida

Comparison of automated short form selection strategies

- Anthony W. Raborn, University of Florida
- Walter L. Leite, University of Florida
- Katerina M. Marcoulides, University of Florida

ASSESSMENT AND ACCOUNTABILITY

1:00 pm – 2:30 pm 🛛 Van Gogh B

Assessment in education: A mysterious thing

- Stephanie Green, University of South Florida
- Aimee Frier, University of South Florida
- Sujay Sabnis, University of South Florida
- Vonzell Agosto, University of South Florida
- Jennifer Wolgemuth, University of South Florida

Universal assessment of school climate

- Huibin Zhang, University of Florida
- Christopher R. Robert, University of Florida
- Diana Joyce-Beaulieu, University of Florida

Classroom formative assessment: Impact on student achievement

• Dylan Wiliam, UCL Institute of Education

Student dropout: Risk factors, impact of prevention programs, and effective strategies

• Vanessa Gonzalez Hernandez, Miami Dade County Public Schools

SYMPOSIUM

1:00 pm – 2:30 pm 🛛 Gateway

In Metrics Hell: Evaluating the Academic Department

Presenter:

Marcy P. Driscoll, Florida State University

Description: As FSU President John Thrasher is fond of saying, "We live in metrics hell," referring to the multitude of metrics to which the university system in Florida is held accountable. Among the 7 categories of USNWR metrics, 12 for Preeminence and 10 for Performance funding, there are 17 unique indicators, suggesting little unanimity on how university quality or effectiveness is assessed. This session is designed to be a conversation about metrics as they apply to college, department, and faculty productivity. What data are collected and how might it be used to promote sound, data-driven decision making?

SPONSORED PRESENTATION

1:00 pm – 2:30 pm 🛛 Feather Sound

Student Test-taking Effort: How It's Measured and Why You Should Care

Sponsored by: Northwest Evaluation Association

Presenter: Nate Jensen

Description: Student test results are used for myriad low- and high-stakes decisions, but using test results for these purposes is based on the presumption that students actually try their best on their tests. Research has shown that low

student test-taking effort in general, and rapid guessing specifically, can lead to biased student test results (for example, see Wise & DeMars, 2005), underestimating what students know and have learned. What then are the implications when these test results are used to make important decisions for students, teachers, and schools? In this session, participants will learn about how test-taking effort (i.e. rapid guessing) can be measured, and more importantly, how low test effort can impact the validity of student test scores. Further, this session will also show how low test effort could potentially affect interpretations of school or teacher performance, or impact the evaluation of local educational programs. Ongoing research has also shown that data on student test effort may provide additional insight into students' social-emotional learning (SEL) views and perceptions, and their broader engagement in school. In other words, paying attention to student test effort may provide teachers with additional insights about their students, and ensure that decisions made on the basis of student test results accurately represent the performance of students.

Biography: Dr. Jensen is a Senior Research Scientist at NWEA, where he specializes in issues related to the use of student testing data in accountability systems. He has provided consultation and support to teachers, administrators, and policymakers across the country to help establish best practices around the uses of student assessment data. Before joining NWEA, he was a Senior Research Associate in the Office for Education Policy at the University of Arkansas and a teacher at the New England Center for Children. Dr. Jensen holds a Ph.D. in Counselor Education from the University of Arkansas.

COFFEE BREAK

2:30 pm – 3:00 pm Pre-Function

Sponsored by: Data Recognition Corporation

DIVERSE STUDENT POPULATIONS

3:00 pm — 4:30 pm 🛛 Van Gogh A

Promoting I2 writing via Vygotsky's ZPD integrated with the Socratic seminar

- Zhengjie Li, University of South Florida
- Ke Cheng, University of South Florida
- Zhiyao Yi, University of South Florida

Holistic afterschool enrichment model program for underserved children in elementary grades

• Harris Ambush, University of South Florida St. Petersburg

Engaging migrant and refugee-background English learners with linguistic landscapes

• Andrea Enikő Lypka, University of South Florida

Transgender identity: Perceptions of a child and parent through transition

• Denise Donahue, University of South Florida

PSYCHOMETRIC APPLICATIONS

3:00 pm – 4:30 pm 🛛 Van Gogh B

What's the dif? Differential item functioning in a school district's 3rd grade english assessment

- Geoffrey West, University of South Florida
- Thang Nguyen, University of South Florida

Gaining a better understanding of general mattering scale: An application of classical test theory and item response theory

- Halil I. Sari, Kilis 7 Aralik University
- Mehmet Akif Karaman, Kilis 7 Aralik University
- Anthony W. Raborn, University of Florida

Latent profile analysis: Demonstration and implications of test preparation for high-stakes exams

- Abeer Alamri, University of South Florida
- Edgar Sanchez, ACT

Psychometric characteristics of the work-family conflict scale

- Lantry Brockmeier, Valdosta State University
- James L. Pate, Valdosta State University
- Rudo Tsemunhu, Valdosta State University
- Sakhavat Mammadov, Valdosta State University

An examination of cut scores and variations in classification accuracy and consistency of highstakes tests in the state of Florida

• Lissette Tolentino, University of Florida

VIRTUAL LEARNING ENVIRONMENTS

3:00 pm – 4:30 pm Gateway

Going from virtual learning environment data to educational constructs: A call for improved construct validity

- A. Corinne Huggins-Manley, University of Florida
- Carole R. Beal, University of Florida
- Sidney K. D'Mello, University of Colorado Boulder
- Walter L. Leite, University of Florida
- Dee Duygu Cetin-Berber, Fresno Unified School District

How to include learning supports in learning games without sacrificing the fun: A review of the literature

- Seyedahmad Rahimi, Florida State University
- Valerie Shute, Florida State University

Quasi-experimental evaluation of usage patterns of virtual learning environments with multilevel mixture models and propensity score weighting

- Walter L. Leite, University of Florida
- Zeyuan Jing, University of Florida
- Dee Duygu Cetin-Berber, Fresno Unified School District
- A. Corinne Huggins-Manley, University of Florida
- Zachary Collier, University of Delaware
- Carole R. Beal, University of Florida

Assessing the relationship between unsuccessful welcome call attempts and course success among ninth grade Algebra 1 students in an online learning environment

- Stephen Sutton, Florida Virtual School
- April Fleetwood, Florida Virtual School
- Gina Tovine, Florida Virtual School
- Gavin McGerald, Florida Virtual School
- Kevin Hickling, Florida Virtual School

PSYCHOMETRIC METHODOLOGY II

3:00 pm – 4:30 pm 🛛 Feather Sound

A comparison of common-item linking and common-population linking in neat design

- Jiajing Huang, Florida State University
- Salih Binici, Florida Department of Education
- Yanyun Yang, Florida State University

Robustness of parallel analysis in the presence of low-discriminating items

- Lanrong Li, Florida State University
- Insu Paek, Florida State University
- Yanyun Yang, Florida State University
- Ahmet Guven, Florida State University
- Xiaotong Yang, Florida State University

Bayesian model checking in cognitive diagnostic models

• Nan Wang, Florida State University

A conditional scaling method to detect examinees with pre-knowledge

• Dennis Maynes, Caveon, LLC

Is the semi-generalized partial credit model a good tool to handle item-level missingness? - A simulation study

- Sherry Zhou, University of Florida
- A. Corinne Huggins-Manley, University of Florida

KEYNOTE SESSION

4:30 pm – 6:00 pm 🛛 Salon D/E

How We Reached Where We Are with School Achievement Testing

Speaker: Dr. Mark Reckase, Michigan State University

Reactor: Dr. Cornelia Orr, Past President of FERA

Moderator: Vince Verges, Florida Department of Education

Description: Achievement testing is now a regular part of the educational system and educational policy. However, it is possible to lose track of how we reached the current status of achievement testing. This presentation will trace the history of achievement testing in the schools and how the current policy related to achievement testing developed. Some of the evolution of testing was related to the desire to make education into a science. Another aspect was the use of testing as a way of influencing the targets of instruction. These issues will be discussed related to the current status of achievement testing in the educational system.

Biography: Dr. Mark Reckase is a Distinguished Professor Emeritus of measurement and quantitative methods at Michigan State University. He specializes in the development of educational and psychological tests, educational policy related to testing, and the psychometric theory that supported the assessment of cognitive skills and content knowledge. In particular, he was doing research on applications of unidimensional and multidimensional item response theory (IRT) models, computerized adaptive testing (CAT), assessment using performance tasks, standard setting on educational tests, and methods for evaluating the quality of teacher education programs.

Biography: Dr. Cornelia Orr is a Past President of FERA with an extensive career that includes over 25 years of service to the State of Florida at the local, state, and university levels. In March 2015, Cornelia retired as the Executive Director of the National Assessment Governing Board (NAGB), the board that sets policy for the National Assessment of Educational Progress (NAEP). She served as Assistant Deputy Commissioner of the Department of Education from 2003 to 2009 where she directed statewide assessment programs from kindergarten readiness to teacher certification. Prior to 2003, she served for the State and the Department as Director of K–12 Assessment for five years, and preceding that she served as a program specialist on a variety of other assessment projects. In addition to her State service, she was Director of Testing and Evaluation for the Leon County School District and a national consultant on assessment and evaluation projects with Evaluation Systems Design.

RECEPTION

6:00 pm - 8:00 pm Pre-Function

Evening Reception

Please join us for the Wednesday night reception, sponsored by **Caveon, LLC** and the **Northwest Evaluation Association**. All FERA attendees are welcome to attend the Wednesday night reception. The event includes great food, a cash bar, an outside patio, access to a nature walk, and conversation with educational researchers from across the state of Florida.

Sponsored by: Northwest Evaluation Association & Caveon, LLC

COFFEE BREAK

REGISTRATION

Thursday, November 15

8:00 am — 5:00 pm Pre-Function

8:00 am — 8:30 am Pre-Function

Sponsored by: Florida Atlantic University

KEYNOTE SESSION

Expanding Assessment Literacy: The Most Cost-Effective Way to Improve our Schools

Speaker: Dr. W. James Popham, University of California Los Angeles

Description: School improvement, a significant but elusive quarry, is typically pursued by focusing on better ways to instruct students. But in this presentation, drawing on a 60+ year career split roughly between teaching and testing, the speaker will argue that, when costs are considered, the flat-out best way to boost the quality of the nation's schools is to increase the assessment acumen of concerned clienteles. In short, for the funds required, knowledge about *testing* trumps knowledge about *teaching*—and by a country mile. Implications of this contention will be explored.

Biography: Dr. W. James Popham has spent the bulk of his educational career as a teacher. Most of Dr. Popham's teaching career took place at UCLA where, for nearly 30 years, he taught courses in instructional methods for prospective teachers as well as courses in evaluation and measurement for graduate students. At UCLA he won several distinguished teaching awards. Because at UCLA he was acutely aware of the perishability of professors who failed to publish, he spent his non-teaching hours affixing words to paper. The result: more than 200 journal articles and more than 30 books. In 1978, Dr. Popham was elected to the presidency of the American Educational Research Association (AERA). He was also the founding editor of *Educational Evaluation and Policy Analysis,* a quarterly journal published by AERA. A Fellow of the Association, he has attended each

8:30 am — 10:15 am 🛛 Salon D/E

year's AERA meeting since his first in 1958. He is inordinately compulsive. In 1968, Dr. Popham established IOX Assessment Associates, an R&D group that formerly created statewide student achievement tests for a dozen states. He has personally passed all of those tests, largely because of his unlimited access to the tests' answer keys. In 2002 the National Council on Measurement in Education presented him with its Award for Career Contributions to Educational Measurement. In 2009 he was appointed to the National Assessment Governing Board by Secretary of Education, Arne Duncan. In 2014 he received an honorary doctorate of public service from his alma mater, the University of Portland in Oregon.

TEACHER INQUIRY STRAND: TEACHER RESEARCHERS AND EDUCATIONAL TECHNOLOGY

10:30 am — 12:00 pm 🛛 Van Gogh A

Positioning teachers as researchers: Lessons in empowerment, change, and growth

- Michelle Vaughan, Florida Atlantic University
- Christina Cavallaro, Florida Atlantic University
- Jessica Baker, FAU High School
- Cheri Celesti, A.D. Henderson University School
- Christopher Clever, FAU High School
- Hannah Darling, A.D. Henderson University School
- Rebecca Kasten, A.D. Henderson University School
- Maria Laing, A.D. Henderson University School
- Rachel Marbach, A.D. Henderson University School
- Agnes Timar, FAU High School
- Kelli Wilder, A.D. Henderson University School

Blast from the past: Empowerment for teacher researchers

- Amanda Taylor, University of Florida
- Tara Ferland, University of Florida
- James Rigney, University of Florida

Exploring the usability of a popular graphic design tool in the middle school classroom

- Tredina Sheppard, PK Yonge
- Harold Gertner, University of Florida
- Pavlo Antonenko, University of Florida

The flipped learning classroom model in a detracked geometry honors course

• Kristin Weller, PK Yonge

STATISTICS I

10:30 am — 12:00 pm 🛛 Salon F

Using skew t distribution to estimate generalized propensity scores for highly skewed continuous treatments

- Zeyuan Jing, University of Florida
- Walter L. Leite, University of Florida
- Huan Kuang, University of Florida

Toddler t-toys

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

Sensitivity analysis for omitted confounders in structural equation modeling

- Huan Kuang, University of Florida
- Walter L. Leite, University of Florida
- Zeyuan Jing, University of Florida

Comparing piecewise latent growth models and parallel-process piecewise latent growth models: A power analysis

- Sanaz Nazari, University of Florida
- Walter L. Leite, University of Florida

Optimization of model specification search in structural equation modeling with hybrid ant colony optimization algorithm

- Zeyuan Jing, University of Florida
- Walter L. Leite, University of Florida
- Huan Kuang, University of Florida

META-ANALYSIS

10:30 am — 12:00 pm 🛛 Salon C

The p-curve: What it tests and how it works

- Betsy Jane Becker, Florida State University
- Lanrong Li, Florida State University
- Jielin Ming, Florida State University

Assessing the performance of p-curve in detecting evidential value

- Lanrong Li, Florida State University
- Betsy Jane Becker, Florida State University
- Jielin Ming, Florida State University

How does the p-curve perform with real data?

- Jielin Ming, Florida State University
- Betsy Jane Becker, Florida State University
- Lanrong Li, Florida State University

Block-based versus text-based programming environments on novice student learning: A meta-analysis study

- Zhen Xu, University of Florida
- Albert D. Ritzhaupt, University of Florida
- Fengchun Tian, University of Florida
- Karthikeyan Umapathy, University of North Florida

Fundraising in student affairs: A meta-analysis of the literature

- Dianne Wright, Florida Atlantic University
- Michael D'Eugenio, Florida Atlantic University
- Kevin Roble, Florida Atlantic University

SPONSORED PRESENTATION

10:30 am — 12:00 pm 🛛 Van Gogh B

Technology that Empowers Districts and Enhances Test Security

Sponsored by:

Caveon, LLC

Presenters:

Walt Drane, Caveon, LLC Steve Addicott, Caveon, LLC

Description: School districts across the nation and here in Florida are being asked to do more with less. In fact, this notion has become the norm. This new norm can be challenging, especially with ever changing mandates being pushed down from the top. This session will show school district leaders how to maximize potential for less using resources, and harness new technology to enhance the security of your assessments and administration process. Presenters will provide attendees practical solutions to tackle monitoring of state assessments, managing test security incidents, guide investigations and inquiries into test security incidents, and to learn about a new technology enhanced assessment item called the Smartltem.

FERA

- Monitoring Learn strategies to harness existing human capital to conduct onsite monitoring of state assessments to evaluate ongoing testing operations in real-time.
- Incident Management When test security incidents occur, managing them can be a nightmare! Learn how an incident management system will allow you to get your arms around all those irregularities that occur during testing.
- Investigations/Inquiries Learn how to prepare for and respond to investigations and inquiries while on a limited budget.
- SmartItems The future of testing is here! Learn about an innovative new item type that can create one question that can cover an entire objective by rendering the items uniquely for each candidate. The SmartItem can cover an entire instructional objective, delivering a unique item presentation to each test taker. Come learn the benefits of this new technology enhanced item.

GRADUATE STUDENT LUNCHEON

12:00 pm — 1:00 pm 🛛 Salon A

FERA Graduate Student Business Meeting Luncheon

Sponsored by: Albert D. Ritzhaupt, University of Florida Robert F. Dedrick, University of South Florida Bruce Hall, University of South Florida Florida Educational Research Association

> Graduate Student Coordinators: Li Cheng, University of Florida Max D. Sommer, University of Florida

Description: The graduate student business luncheon aims to promote communication between graduate students and enhance graduate students' professional development. The luncheon features two events: 1) Dr. James Klein (Florida State University) will give a talk on the following topic: *What are hiring committees looking for in candidates for tenure-track positions?* and 2) Graduate students will vote for a Graduate Student Coordinator.

CREATING COLLABORATIONS LUNCHEON

12:00 pm — 1:00 pm 🛛 Salon B

Creating Collaborations for the Generation of Educational Research

Sponsored by: A. Corinne Huggins-Manley, University of Florida Florida Educational Research Association

Hosts: Peggy Jones, Pasco County Schools A. Corinne Huggins-Manley, University of Florida

Description: Join us for an interactive luncheon designed to facilitate the creation of new collaborative relationships between district, academic, and industry personnel with common educational research interests. Lunch will be available while participants are provided the opportunity to locate like-minded persons from other spaces of Florida educational research.

GRADUATE STUDENT POSTER SESSION I

1:00 pm – 3:00 pm Pre-Function

Graduate Student Poster Session I

Accessing resiliency at a north Florida freedom school: A mindful, mixed-methods approach

• A. Michael Davidson, Florida A & M University

An examination of the role of Arabian Gulf students' culture and gender on their cultural adjustment in ESL classrooms in the United States of America: A mixed method investigation

• Mais Al-Jabbawi, University of Central Florida

Putting nature of science into practice: Engaging elementary preservice teachers in nature of science

• Melanie Kinskey, University of South Florida

Knowledge sharing among academics in higher education institutions in Saudi Arabia

- Fahad Alsaadi, Nova Southeastern University
- Martha Snyder, Nova Southeastern University

Comics in classrooms: Supporting struggling readers with behavioral concerns

• Karyn Zalman, University of South Florida

Student development for CTE students: A framework for identity and career development

• Hayley Spencer, Florida State University

Young, empowered, and black: Exploring the perception of Harambee among freedom school children

• Destiny Washington, Florida State University

Culturally responsive classroom management strategies in CDF freedom schools

- James A. Hernandez, Florida State University
- Makana Craig, Florida State University
- Alysia D. Roehrig, Florida State University

Florida school district classifications and academic outcomes

- Lauren Raubaugh, University of Central Florida
- Ying Xiong, University of Central Florida

Attempting to repay the educational debt: Culturally relevant pedagogy in North Florida Freedom Schools' integrated reading curriculum for middle school students

• Daniel Gregorio, Florida State University

TEACHER INQUIRY STRAND: TEACHER PRACTICES AND ASSESSMENT

1:00 pm — 2:30 pm 🛛 Van Gogh A

Building curriculum to effectively teach technical writing skills in a heterogeneous high school science class

• Renee Andrews, PK Yonge

The impact of office hours on student learning in algebra

• Taylor Bainter, PK Yonge

Assessing within boundaries: Time flexibility with secondary science summative assessments

• Tredina Sheppard, PK Yonge

The intersection of standards based grading and universal design for learning in a sixth grade language arts classroom

• Blake Beckett, PK Yonge

Three-dimensional science learning and assessment: What is it? How do I implement it in biology?

• Mickey McDonald, PK Yonge

MATHEMATICS EDUCATION

1:00 pm – 2:30 pm 🛛 Van Gogh B

A preliminary investigation of student contacts and successful course completion of online algebra 1

- April Fleetwood, Florida Virtual School
- Gina Tovine, Florida Virtual School
- Carole R. Beal, University of Florida
- Gavin McGerald, Florida Virtual School
- Colton Tapoler, Florida Virtual School

The links between parents' encouragement and boys' and girls' perception of mathematics usefulness: an application of multilevel mimic modeling to test interaction effect

- Chunhua Cao, Polk County Public Schools
- David Bustos, Polk County Public Schools

Understanding 2017-18 Algebra 1 course taking patterns for students in ninth grade

• Ann Cisney-Booth, Orange County Public Schools

The effect of using mathematics activities based on problem-based learning on mathematical connection abilities and attitude towards mathematics learning of eighth grade students

• Nitchada Kamlue, University of South Florida

Student unpreparedness: College math remedial education

Elise A. Simmons, Florida State University

PROGRAM EVALUATION

1:00 pm — 2:30 pm 🛛 Salon F

Avid program participation: Effectiveness at three levels of exposure

• Abigail Todhunter-Reid, Palm Beach County School District

The implementation of the Botvin LifeSkills Training Curriculum in rural schools in Florida

- Flandra Ismajli, University of South Florida
- Lodi Rohrer, University of South Florida

Leadership for youth: A model leadership program for lower income elementary students

Harris Ambush, University of South Florida St. Petersburg

Fostering resilience for adults with substance use disorder

- Karol Jo Foster, Florida Atlantic University
- Mary G. Lieberman, Florida Atlantic University

STEM EDUCATION

1:00 pm — 2:30 pm 🛛 Salon C

Types of visual representations of 3D objects in mathematics textbooks

• Sofia Hatziminadakis, University of South Florida

The effects of Title I program on student achievement using propensity score weighting analysis

- HyunKi Shim, Florida State University
- Ho-Jun Lee, Seoul National University

Computational thinking integration: Curriculum design for leveraging robotics in elementary science class

- Feiya Luo, University of Florida
- Pasha Antonenko, University of Florida

Students' physics identity and performance: Mediators between creative teaching and physics career aspiration

- Haiying Long, Florida International University
- Zahra Hazari, Florida International University
- Geoffrey Potvin, Florida International University

READING, WRITING, AND LITERACY EDUCATION

1:00 pm – 2:30 pm 🛛 Gateway

Twenty-five years since the Florida consent decree: Does preparing all teachers for English learners work?

- Maria Coady, University of Florida
- Shuzhan Li, University of Florida
- Mark Lopez, University of Florida

Teachers' judgments of 2nd graders' academic competence and impacts on reading comprehension gains

• Novell Tani, Florida A & M University

Investigating the factors predicting academic writing difficulties among first-year nonnative doctoral English students

- Iman Khudhair, University of Central Florida
- David N. Boote, University of Central Florida
- Florin Mihai, University of Central Florida

Digital texts for digital times: Transforming teacher practices into stories worth sharing

- John I. Liontas, University of South Florida
- Patrick Mannion, University of South Florida

The impact of school-wide positive behavior support on third grade student achievement as indicated by standardized test scores

• Jovonni T. Farrington, Keiser University

COFFEE BREAK

2:30 pm – 3:00 pm Pre-Function

Sponsored by:

University of Central Florida

GRADUATE STUDENT POSTER SESSION II

3:00 pm – 5:00 pm Pre-Function

Graduate Student Poster Session II

Effective ways of teaching phrasal verbs: Comparing traditional with modern approaches

- Nagham Majeed, University of Central Florida
- Florin Mihai, University of Central Florida

Learning to facilitate Mathematical Practice 3 in a practice-based mathematics methods course

• Andrea Scalzo Willson, University of South Florida

APA style writing instruction for graduate students

• Melanie R. F. Law, Florida Southern College

A profile of exceptional student education (ESE) services in the Tampa bay area

- Lodi Rohrer, University of South Florida
- Alisha Braun, University of South Florida
- Jennifer Wolgemuth, University of South Florida
- Phyllis Jones, University of South Florida
- David Lamb, University of South Florida
- Karen Colluci, University of South Florida
- Vonzell Agosto, University of South Florida
- Zorka Karanxha, University of South Florida

Engaging migrant and refugee-background English learners with linguistic landscaping: A pedagogical resource to promote linguistic and cultural diversity

• Andrea Enikő Lypka, University of South Florida

Early childhood development and fourth-grade achievement

• Katherine Summers Kanupp, Florida State University

Exploring teacher-student relationships: A multiple case study of teachers' relatedness with elementary students

• Raven S. Robinson, University of South Florida

The role of gender in intergenerational perceptions of innovation as a leadership trait

• Jacob R. Hidrowoh, Florida Atlantic University

A comparative analysis of geometric concepts in mathematics textbooks

• Sofia Hatziminadakis, University of South Florida

Bridging the gap between theory and practice: A duo-ethnography

• Denise Donahue, University of South Florida

TEACHER INQUIRY STRAND: 3:00 pm - 4:30 pm Van Gogh A STUDENT ENGAGEMENT, CRITICAL THINKING, AND CULTURALLY RESPONSIVE TEACHING

What is the impact on student engagement, when an 8th grade US history course transforms from teacher-centered to student-centered?

• Clint Kovach, PK Yonge

Critical thinking through musical theatre

- Melanie Harris, PK Yonge
- Rachel Snyder, PK Yonge

Using citizen science projects to increase student perceptions of relevance in advanced placement environmental science

• Renee Andrews, PK Yonge

A reading coach's exploration of literacy engagement practices in her classroom at a rural, high poverty school

• April Fleetwood, Florida Virtual School

Facilitating culturally responsive classroom management professional development for novice teachers in an urban school

• Kim Miccichi, Pinellas County Schools

STATISTICS II

3:00 pm – 4:30 pm 🛛 Van Gogh B

Improved interpretation of regression effects using commonality analysis

• Joel Messan, Florida State University

An evaluation of effect-coding identification method under violations of longitudinal measurement invariance in the curve-of-factors model

- Yanyun Yang, Florida State University
- Yachen Luo, Florida State University
- Qian Zhang, Florida State University

Measurement invariance assessment using Bayesian information criteria

- Xinya Liang, University of Arkansas
- Yong Luo, National Center for Assessment, Saudi Arabia

Multicollinearity's effect on classification accuracy with real data structures

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

Machine learning software for classification

• Gavin McGerald, Florida Virtual School

RESEARCH IN THE UNIVERSITIES

3:00 pm — 4:30 pm 🛛 Salon F

The impact of a university research methodology course on dual enrollment students

- Tricia Meredith, Florida Atlantic University
- Maria Vasquez, Florida Atlantic University
- Leila Shatara, Florida Atlantic University

"Leadership out of the gate": Developing teacher leaders in a clinical teacher preparation program

- Steve Haberlin, University of South Florida
- Miranda Lim, University of South Florida

Collaboration among professors: A catalyst for instructor change

• Amanda Mohn, University of South Florida

Comparison of students in teacher education from China and the US: An assessment of dispositions

- W. Steve Lang, University of South Florida St. Petersburg
- Judy R. Wilkerson, Florida Gulf Coast University
- LaSonya Moore, University of South Florida St. Petersburg
- Jingshun Zhang, Florida Gulf Coast University

Empowering public institutions: Liberal arts programs in South Florida

- Badara Taal, Florida Atlantic University
- Evelyn Hall, Florida Atlantic University
- Ingrid Jones, Florida Atlantic University

EDUCATIONAL RESEARCH IN UNIQUE CONTEXTS

3:00 pm — 4:30 pm 🛛 Salon C

Effectiveness of mindfulness meditation based stress reduction using outcome questionnaire 45.2 *in undergrad college students*

- Shiva Jahani, University of Central Florida
- Suat Babayigit, University of Central Florida
- Kelsey Evans, University of Central Florida

Facilitating informal learning at work

- James D. Klein, Florida State University
- Alison Moore, Pearson

Using interpretative phenomenological analysis as a method for identifying training needs relating to the use of remote monitoring technologies among informal caregivers

• Martha Snyder, Nova Southeastern University

Changes in children's reading skills, motivation, and prosocial beliefs following a culturally relevant summer camp

- Michael P. Mesa, Florida State University
- Alysia Roehrig, Florida State University
- Corbin A. Robinson, Florida A & M University
- Cheron Davis, Florida A & M University
- Shawna Durtschi, Florida State University
- Chelsea Funari, Florida State University
- CheYeon Ha, Florida State University
- Makana Craig, Florida State University

KEYNOTE SESSION

4:30 pm – 6:00 pm 🛛 Salon D/E

What Florida Educators Are Saying: The Measure to Learn and Improve Study

Speakers:

Stephanie Cugini, University of Florida Lastinger Center Dr. Philip Poekert, University of Florida Lastinger Center

Description: The Measure to Learn and Improve study is a comprehensive research effort instigated by the Bill and Melinda Gates Foundation to assess the impact of investments in education improvement. The study examined the perceptions of teachers and administrators across the country regarding preparedness programs for their roles, professional learning opportunities, and teacher leadership structures. The symposium features a panel of Florida teachers who will respond to the findings, share their own questions and concerns, and discuss implications. The symposium will serve as a catalyst for authentic discussion, reflection, and ultimately action to improve the education system within Florida.

Biographies: Stephanie Cugini, M.Ed. serves as the Innovation Manager of the University of Florida Lastinger Center for Learning, an education innovation incubator dedicated to building equitable educational systems. Stephanie coordinates the identification of potential innovations, needs of current innovations, and the communication of the Lastinger Center's work internally and externally. Stephanie integrates her marketing and communications background with her experience in the classroom to provide strategic guidance to steward innovation development. Stephanie began her career in education as a high school mathematics teacher in Duval County, where she had the opportunity to grow her skills as a teacher leader and professional development facilitator. Stephanie's research focuses include mathematics education and the impact of professional development on teacher practice. A double graduate of the University of North Florida, Stephanie holds a B.S. in Marketing and M.Ed. in Curriculum and Instruction.

Philip E. Poekert, Ph.D., is the Director of the University of Florida Lastinger Center for Learning. Phil completed a philosophy degree at New College of Florida

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before beginning his career in education as a member of the 2001 New York City corps of Teach For America, teaching middle school English in the South Bronx and completing a Master's degree at Pace University. He also taught in Oakland, Los Angeles, and back home in West Palm Beach before completing a Ph.D. in Curriculum and Instruction, specializing in urban education and professional development, at the University of Florida. Phil manages the Lastinger Center's portfolio of research and service projects, currently totaling over \$30 million. His research focuses on the development of teacher leadership and the impact of collaborative professional development on teaching quality. He has presented at numerous state, national, and international research conferences and has published in national and international journals, such as *Teacher Education Quarterly, Educational Leadership*, and *Professional Development in Education*.

RECEPTION

6:00 pm – 8:00 pm Pre-Function

Evening Reception

Please join us for the Thursday night reception, sponsored by **American Institutes for Research.** All FERA attendees are welcome to attend the Thursday night reception. The event includes great food, a cash bar, an outside patio, access to a nature walk, and conversation with educational researchers from across the state of Florida.

> Sponsored by: American Institutes for Research

REGISTRATION

Friday, November 16

8:00 am – 11:00 am Pre-Function

COFFEE BREAK

8:00 am - 8:30 am Pre-Function

8:30 am — 10:00 am 🛛 Van Gogh A

Sponsored by: Florida State University

EDUCATIONAL TECHNOLOGY APPLICATIONS

The effects of student-generated drawing and imagination on learning a computer-based science text

- Li Cheng, University of Florida
- Carole R. Beal, University of Florida

Services motivating instructional designers in higher education to engage in professional associations

- Albert D. Ritzhaupt, University of Florida
- Jill E. Stefaniak, University of Georgia
- Sheri L. Conklin, University of North Carolina Wilmington
- Kiran S. Budhrani, University of North Carolina at Charlotte

Strengthening clinical research through use of instructional design principles

- Janet Brishke, University of Florida
- Christy Evans, University of Florida
- Elizabeth Shenkman, University of Florida

Evaluation findings from a large scale TAACCCT program for building capacity to provide specialized IT training in Florida

- Bonnie Swan, University of Central Florida
- Debbie Hahs-Vaughn, University of Central Florida
- Adreana Fidanzi, University of Central Florida
- Ana Serpa, University of Central Florida
- M. H. Clark, University of Central Florida

Integrating CALL to develop metacognitive skills in EAP classrooms

- Imelda Bangun, University of South Florida
- Patrick Mannion, University of South Florida
- Zhengjie Li, University of South Florida

STUDENTS IN HIGHER EDUCATION

8:30 am — 10:00 am 🛛 Van Gogh B

The forgotten topic: A study on the transition college experiences of former foster youth

• David Kenton, Florida International University and Kenton Education, LLC

Exploring academic self-esteem in historically black college/university (HBCU) students

• Novell Tani, Florida A & M University

Underrepresented students check agency: A case for metacognitive regulation training

- Jenay R Sermon, Florida State University
- James Klein, Florida State University

Passing college: A taxonomy for students with disabilities in postsecondary education

• Lyman Dukes III, University of South Florida St. Petersburg

Influence of accessibility services among exceptional higher education students in STEM majors: A partial least squares analysis of an institutional big dataset

- Matthew Munyon, University of Central Florida
- Shiva Jahani, University of Central Florida

RESEARCH WITH PRE-SERVICE TEACHERS

8:30 am — 10:00 am 🛛 Gateway

Pre-service teachers feel ready, set, go on day one? Comparing pre-service teachers teaching efficacy from a center of excellence teacher preparation model and a traditional model

• Kay Caster, Florida State University

A view from the inside: Doctoral students' investigation of our professors' beliefs about the nature and practice of preservice teacher education

- Stephanie A. Arthur, University of South Florida
- Samantha J. Haraf, University of South Florida
- Amber L. MacDonald, University of South Florida
- Allan Feldman, University of South Florida

Pre-service elementary teachers' views and attitudes towards social studies

• Rina Bousalis, Florida Atlantic University

"It's almost like I can't be human": Pre-service teachers of color resistance of stereotypes

• Lauren Braunstein, University of South Florida

SYMPOSIUM

8:30 am — 10:00 am 🛛 Salon F

Diversity in STEM Education: An Inquiry Into the Experiences of Under-represented Groups

Presenters:

Lakshmi Jayaram, University of South Florida Angela Estacion, WestEd Edward Fletcher, University of South Florida Will Tyson, University of South Florida Marilyn Barger, Florida Advanced Technological Education Center Danielly Orozco, Florida Advanced Technological Education Center Stephanie D'Souza, WestEd Deirdre Cobb-Roberts, University of South Florida

Description: This Symposium delves into the topic of under-represented groups in STEM education. In particular, we focus on the "T" in STEM, or technology, and present an inquiry into the experiences of women and girls, racial and ethnic minorities, non-traditional students, and first-generation students, from basic, applied, and evaluation research perspectives, and across secondary and post-secondary educational contexts. The goal of this symposium is to generate research-based discussion and dialogue relevant to various stakeholders about diversity in technology education programs.

SYMPOSIUM

8:30 am — 10:00 am 🛛 Salon C

Score Reporting Challenges and Innovative Solutions

Presenters:

Lauren White, Florida Department of Education Suleyman Olgar, Florida Department of Education Leah Kaira, Pearson Alvaro Arce, Pearson Betsy Becker, Florida State University

Description: Modern enhancements in technology have allowed for onsite, instant reporting of test results after concluding a test administration session. This coordinated session brings four papers that address critical test score reporting challenges and potential innovative solutions in ongoing educator

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certification testing programs. Each paper summarizes research findings and possible solutions for reporting measurement precision in individual reports, improving the quality of the reported scores to individuals and institutions, and the quality of the scoring process and examinee feedback for performance assessments.

CULTURE, IDENTITY, AND EDUCATION

10:15 am — 11:45 am 🛛 Salon F

An investigation on anti-Semitism

• Jared Bucker, Nova Southeastern University

Being black in white spaces: Identity development of black female graduate students at a public white institution

• Keturah Young, Florida State University

Same for all? The interplay among engagement, self-efficacy, achievement and career choices across races and genders

• Julieth Diaz Benitez, Florida State University

Emotional laboring and educating to coexist: Images of "taking a knee"

- Ashley White, University of South Florida
- Vonzell Agosto, University of South Florida
- Jennifer Wolgemuth, University of South Florida
- Deirdre Cobb-Roberts, University of South Florida
- Phyllis Jones, University of South Florida
- Allan Feldman, University of South Florida

RESEARCH WITH FLORIDA TEACHERS AND SCHOOLS

10:15 am — 11:45 am 🛛 Van Gogh A

Visualizing school curricular structures and student distributions using social network analysis

- Geoffrey West, University of South Florida
- Siyu Liu, University of South Florida

The effect of leadership teams on student achievement

- Shernette Grant, Florida Atlantic University
- Daniel Reyes Guerra, Florida Atlantic University
- Mary G. Lieberman, Florida Atlantic University
- John D. Morris, Florida Atlantic University

Teacher shortage in Florida: University-school district partnership

• Rangasamy Ramasamy, Florida Atlantic University

An analysis of the readiness and confidence of high school administrators to provide instructional leadership in digital school environments

- Andrew Shepherd, University of Central Florida
- Harold Border, Orange County Public School District

ONLINE AND BLENDED LEARNING ENVIRONMENTS

10:15 am — 11:45 am 🛛 Van Gogh B

A case study investigating student perceptions of K-12 blended learning communities

- Gina Tovine, Florida Virtual School
- April Fleetwood, Florida Virtual School
- Richard Hartshorne, University of Central Florida
- Gavin McGerald, Florida Virtual School
- Andrew Shepherd, Florida Virtual School

Transformation of a face-to-face workshop into a massive open online course (MOOC): A design and development case

- Max Sommer, University of Florida
- Albert D. Ritzhaupt, University of Florida
- Keith E. Muller, University of Florida
- Debra H. Glueck, University of Colorado Denver

Pre-service teachers' experience with online collaborative learning

• Alia Hadid, University of South Florida

Creating "real" ationships with students: The struggle for authentic connection in an online medium

• Michelle Vaughan, Florida Atlantic University

Using flipped classrooms to teach mathematics to elementary students in Saudi Arabia: A pilot study

- Fawaz Alrouqi, University of South Florida
- Sarah van Ingen, University of South Florida

SYMPOSIUM

10:15 am — 11:45 am 🛛 Salon C

Physics Playground: A Learning Game Demo with Posters

Presenters:

Russell Almond, Florida State University Valerie J. Shute, Florida State University Ginny Smith, Florida State University Seyedahmad Rahimi, Florida State University Fengfeng Ke, Florida State University Zichun (Lukas) Liu, Florida State University Xi Lu, Florida State University Chen Sun, Florida State University Seyfullah Tingir, Florida State University Dylan Wiliam, UCL Institute of Education

Description: *Physics Playground* is a game designed to teach conceptual physics to middle school students. The game includes both an adaptive stealth assessment and learning supports. This is an interactive poster session including an overview talk followed by a poster session then a wrap-up discussion. Poster topics include:

- A live demonstration of the game;
- Technical underpinnings of Physics Playground;
- Designing game-based learning experience: Game level design and testing in *Physics Playground*;
- Envisioning, creating and refining in-game learning supports for conceptual physics understanding;
- *Physics Playground* scoring and activity selection algorithms; and
- The impact of in-game support on learning: A pilot test for *Physics Playground*.

FERA LUNCHEON

12:00 pm — 1:30 pm 🛛 Salon D/E

Annual Business Meeting and Award Luncheon

Sponsored by: QSR International University of South Florida Florida Advanced Technological Education Center Florida Educational Research Association

Please join us for our annual business meeting and awards luncheon. The luncheon is sponsored by **QSR International, University of South Florida,** the **Florida Advanced Technological Education Center**, and the **Florida Educational Research Association**. During the luncheon, we announce the winner of each award; summarize the annual report of business activities; acknowledge the contributions of sponsors, volunteers, and active FERA members; and hold nominations and elections for leadership positions. Additionally, we will honor Kathleen A. Dailey.

FERA BOARD MEETING

2:00 pm – 4:00 pm 🛛 Van Gogh A

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Paper Proposal Review	Maria Vasquez	Florida Atlantic University			
Chair of Teacher Inquiry Strand	Alyson Adams	University of Florida			
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	Robert Dedrick	University of South Florida			
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Educational Researcher of the Year	Yanyun Yang	Florida State University			
Program	A. Corinne Huggins-Manley	University of Florida			
Evaluation	Eun-sook Kim	University of South Florida			
	Insu Paek	Florida State University			
Webmaster	Albert Ritzhaupt	University of Florida			

Paper Proposal Reviewers

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

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Bill Myers	1985	Sam Whitten	2017