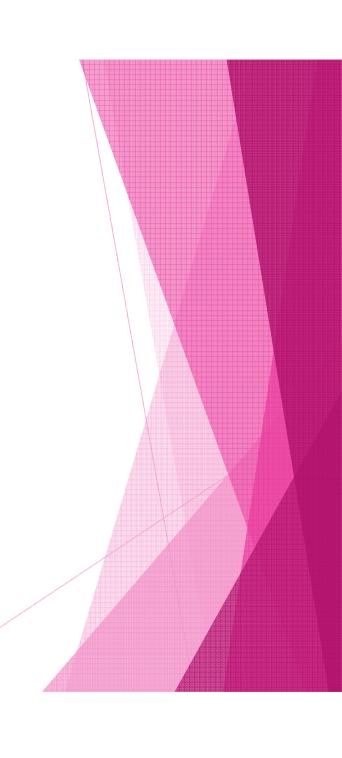


American Educational Research Association
2017 Meeting
San Antonio, TX

# Purpose of Mini-course

- Improve quality of research through application of AERA/APA/NCME/Standards
- ▶ We will focus on three chapters of 2014 Standards
  - ► Reliability/Precision and Errors of Measurement
  - Validity
  - ► Fairness in Testing



# Agenda

	Introduction and Overview	1:00-1:30
•	The Reliability/Precision Standards	1:30-2:30
	Discussion	
	Activity	
•	Break	2:30-2:45
•	The Validity Standards	2:45-3:45
	Discussion	
	Activity	
•	The Fairness in Testing Standards	3:45-4:45
	Discussion	
	Activity	
•	Wrap Up	4:45-5:00

### Overview of the Standards

- ▶ 1954, APA issued Technical Recommendations for Psychological Tests And Diagnostic Techniques
- ► 1955, AERA and NCME published Technical Recommendations for Achievement Tests
- ▶ 1966, joint committee of APA, AERA, and NCME consolidated and modified the two separate documents into a single set of *Joint Standards for Educational* and Psychological Tests and Manuals
- ► The 1966 volume followed by a series of revisions in 1974, 1985, and 1999, referred to as the Standards for Educational and Psychological Tests
- ► The 2014 revision is the sixth version of the *Standards* and the fifth revision of the *Joint Standards*

## Purpose of the Standards

- "...is to provide criteria for the development and evaluation of tests and testing practices and to provide guidelines for assessing the validity of interpretations of test scores for the intended test uses."
  - ► AERA, APA, NCME (2014). Standards for Educational and Psychological Testing

### Standards Influence and Citations

- Not established in response to any governmental or regulatory organization
- Not established as a result of legislation or judicial decisions
- Cited frequently in Supreme Court and Lower Court decisions regarding assessment practices
  - ► Albemarle Paper v. Moody, Washington v. Davis, Watson v. Ft. Worth Bank and Trust
- ► Today, all state assessments cite the *Standards* in both the development and uses of their educational programs
  - ► ESEA, PL-103-227

#### 2014 Standards Joint Management Committee

Barbara Plake, PhD, Co-Chair Distinguished Professor Emeritus University of Nebraska Lauress (Laurie) Wise, PhD, Co-Chair Human Resources Research Organization

Linda Cook, EdD Educational Testing Service

Fritz Drasgow, PhD University of Illinois- Urbana-Champaign Dept. Of Psychology

Brian Gong, PhD
The Nat'l Ctr. for the Improvement of Ed. Assessment, Inc.

Laura Hamilton, PhD RAND Corporation

Jo Ida Hansen, PhD University of Minnesota Dept. of Psychology

Joan Herman, EdD University of California-Los Angeles Educ-CSE Michael Kane, PhD National Conference of Bar Examiners

Michael Kolen, PhD University of Iowa

Antonio E. Puente, PhD University of North Carolina-Wilmington Dept. of Psychology

Paul Sackett, PhD University of Minnesota Dept. of Psychology

Nancy Tippins, PhD Valtera Corporation

Walter (Denny) Way, PhD Pearson

Frank C. Worrell, PhD University of California-Berkeley

#### The 2014 Joint Standards

- Gathering standards into topical clusters
- Consolidation of fairness topics into a single chapter
- Fairness chapter placed in foundational section with validity and reliability chapters
- Addressed topics related to new and emerging technologies
- Discussion of accountability testing expanded
- Focus was shifted from reliability alone to reliability and precision
- Validity chapter had only minimal changes but connection between validity concerns and standards in other chapters was clarified