WORKSHOP DESCRIPTION

The purpose of this training session is to introduce participants to the theory and applications of Rasch measurement. This session will provide participants with the necessary tools to become effective consumers of research employing Rasch measurement and the skills necessary to solve practical measurement problems. Instructional material will be based on four Rasch measurement models: dichotomous, rating scale, partial credit, and many-facet data. Participants will have the opportunity to use current Rasch software.

The format will consist of eight self-contained units. The units are: Introduction to Rasch Measurement; Item and Person Calibration; Dichotomous and Polytomous Data; Performance and Judged Data; Applications of Rasch Measurement I and II; Examples of Rasch Analyses; and Analysis of Participants Data. The material covered is these units are an overview of material that would normally be covered in approximately two to three graduate level measurement courses. The co-directors will divide the topics in each session to maximize individual strengths.

Registration includes the full 2-day workshop, a continental breakfast each morning, lunch each afternoon, over 550 pages of handouts and tutorial material, a copy of Introduction to Rasch Measurement (698 pages), Rasch Measurement: Advanced and Specialized Applications (470 pages), Criterion-Reference Testing: Practice Analysis to Score Reporting using Rasch Measurement Models (560 pages), and a one-year subscription to the Journal of Applied Measurement. See www.jampress.org for more details on these publications.

Audience: Anyone interested in learning about the practical aspects of Rasch measurement. Previous training in measurement is recommended, but not necessary.

Directors Names: Everett V. Smith Jr. and Richard M. Smith

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AGENDA
Friday, October 8, 2010
8:00 am  Registration and Coffee/Juice/Danishes/Muffins/Bagels

Session I – Introduction to Rasch Measurement
8:30  Welcome
Richard M. Smith, PhD

8:35  What is Measurement
Richard M. Smith, PhD

9:00  Rasch Measurement Models
Everett V. Smith, Jr., PhD

9:30  True Score vs. Rasch Measurement Models
Everett V. Smith, Jr., PhD

10:00  Q&A

10:15  Break

Session II – Item and Person Calibration
10:30  Testing the Fit of Data
Richard M. Smith, PhD

11:00  Dimensionality and PC Analysis of Residuals
Everett V. Smith, Jr., PhD

11:30  Q&A

11:45  Lunch - hotel restaurant
Session III – Dichotomous and Polytomous Data
1:00 Example of dichotomous data analysis
   Richard M. Smith, PhD

1:30 Example of polytomous data analysis
   Everett V. Smith, Jr., PhD

2:15 Example of multidimensional data analysis
   Everett V. Smith, Jr., PhD

3:00 Q&A

3:15 Break

Session IV – Performance and Judged Data
3:30 FACETS Control Language & example of facets analysis with nested
data (ratings of conference proposals)
   Richard M. Smith, PhD

4:15 Example of facets analysis and G-Theory (ratings of student
   performance)
   Everett V. Smith, Jr., PhD

5:00 Q&A

5:15 End of Day One
Saturday, October 9, 2010
8:00 am Coffee/Juice/Danishes/Muffins/Bagels

Session V – Applications of Rasch Measurement
8:30 Score Reporting
Everett V. Smith, Jr., PhD

9:00 Rasch and latent class analysis
Everett V. Smith, Jr., PhD

9:30 Item Bias
Richard M. Smith, PhD

10:00 Q&A

10:15 Break

Session VI – Applications of Rasch Measurement
10:30 Test Equating and Item Banking
Richard M. Smith, PhD

11:00 Computer Adaptive Testing
Richard M. Smith, PhD

11:30 Rasch vs. Multi-Parameter IRT Models
Everett V. Smith, Jr., PhD

12:00 Q&A

12:15 Lunch - hotel restaurant
**Session VII – Examples of Rasch Analyses**

1:30  Rating Scale Data  
Everett V. Smith, Jr., PhD

2:00  Partial Credit Data  
Richard M. Smith, PhD

2:30  Q&A

2:45  Break

**Session VIII – Analysis of Participants Data**

3:00  Running WINSTEPS  
Everett V. Smith, Jr., PhD  
Richard M. Smith, PhD

3:45  Q&A

4:00  Your turn to analyze data

Participants interested in analyzing their own data should bring a laptop with Windows 95 (or newer), 8 MB RAM (min), and Wordpad or Notepad.

5:00  End of Workshop
REGISTRATION FORM

AN INTRODUCTION TO RASCH MEASUREMENT: THEORY AND APPLICATIONS
October 8-9, 2010 (Friday and Saturday)

Deadline: October 1, 2010
Please complete this entire registration form and mail or fax this registration form with payment to:
JAM Press, P.O. Box 1283, Maple Grove, MN 55311 USA or fax to 763-268-2782

Name ________________________________________________________ Prof. Initials ____________
First                     Last

Work Address ____________________________________________________________

City/State/Country _____________________________________ Zip ______________

Home Address __________________________________________________________

City/State/Country _____________________________________ Zip ______________

Work Phone ( ) _________________________ Home Phone ( ) __________________________

E-Mail (required as we will be sending you material) ________________________________

[ ] Home [ ] Work

I would like to have: [ ] Certificate of completion [ ] Receipt for payment

Payment Amount : [ ] U.S. $485 Professional [ ] $360 with proof of student status – no post-docs

Payment Type: [ ] Check enclosed [ ] Money Order enclosed [ ] Credit Card – provide information below

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Once your registration material is received, an e-mail confirmation will be sent.

Please note: If an insufficient number of participants register this session may be canceled. Your registration funds will be reimbursed minus the cost of Introduction to Rasch Measurement ($51), Rasch Measurement: Advanced and Specialized Applications ($55), and Criterion-Reference Testing: Practice Analysis to Score Reporting using Rasch Measurement Models ($61). You will be notified by the registration deadline (October 1, 2010) if this session will be canceled.

Introduction to Rasch Measurement, Rasch Measurement: Advanced and Specialized Applications, and Criterion-Reference Testing: Practice Analysis to Score Reporting using Rasch Measurement Models will be mailed immediately after payment is received. The subscription to the Journal of Applied Measurement will commence after the workshop. Cancellations more than 2 weeks prior to the workshop will receive a full refund minus the cost of Introduction to Rasch Measurement ($51), Rasch Measurement: Advanced and Specialized Applications ($55), and Criterion-Reference Testing: Practice Analysis to Score Reporting using Rasch Measurement Models ($61). Cancellations within 2 weeks of the workshop will receive a refund minus the cost of Introduction to Rasch Measurement ($51), Rasch Measurement: Advanced and Specialized Applications ($55), Criterion-Reference Testing: Practice Analysis to Score Reporting using Rasch Measurement Models ($61), and the associated costs to cover the ordered food and refreshments.

For accommodations, here are the phone numbers and web links for two hotels. The first (Hilton Garden Inn) is the site of the workshop. Please ask for the Rasch Measurement Workshop room block for the reduced rate ($109 per night). The second is about three blocks away, across the interstate. Both hotels are accessible from the MSP airport through the airport shuttle service (Super Shuttle). You can make shuttle reservations online.

**Hilton Garden Inn**
6350 Vinewood Lane North
Maple Grove, MN 55311
(763) 509-9500

**Extended Stay America**
12970 63rd Ave. N.
Maple Grove, MN 55369
(763) 694-9747
mgv@extendedstay.com

IMPORTANT: Please add our email addresses (rsmith@jampress.org and evsmith@uic.edu) to your email lists as soon as possible so our emails to you are not directed to SPAM boxes.