CONTENTS

Welcome ......................................................................................................................... 1
Schedule ......................................................................................................................... 2
Keynotes .......................................................................................................................... 12
Invited Speakers ............................................................................................................. 14
State of the Art Talks .................................................................................................... 17
Sessions ............................................................................................................................ 20
Evening & Special Events ............................................................................................... 32
  Memorial Union Terrace Gathering ............................................................................. 32
  UW-Madison Campus Walking Tour ........................................................................... 32
  Welcome to Wisconsin Reception ................................................................................ 33
  Poster Session & Reception ....................................................................................... 36
  Closing Reception & Banquet Dinner .......................................................................... 36
  Dane County Farmers’ Market ................................................................................... 39
General Conference Information .................................................................................. 40
  Conference Shuttles ................................................................................................. 41
  Information for Presenters ......................................................................................... 42
  Internet Access .......................................................................................................... 44
Committees ..................................................................................................................... 51
Walking Map .................................................................................................................. 53
Floor Plans of Conference Facilities ............................................................................ 54
Notes ............................................................................................................................... 56
Dear IMPS Attendee and Guests:

As local organizers of this year’s International Meeting of the Psychometric Society (IMPS), it is our pleasure to welcome you to Madison, WI and the campus of the University of Wisconsin - Madison.

The city of Madison is alive with activity in the summer months, owing in large part to the beautiful Lakes Mendota, Monona, and Wingra, and the many outdoor recreational opportunities afforded by the city. We think you’ll agree that it provides an excellent setting for our annual meeting.

The conference will occur at two facilities on campus: The Pyle Center, which will be the site of most conference meetings and the location for conference registration; and The Lowell Center (also a hotel lodging site), which will host our plenary sessions.

The conference will begin at 9am on Tuesday July 22 in The Lowell Center, with an opening ceremony and keynote address. It will end with a banquet on Friday evening, July 25, on the rooftop of the Monona Terrace, which is located near the State Capitol building and overlooks Lake Monona. Conference sessions will take place through the day on Tuesday, Wednesday, Thursday, and Friday. There will also be a Wednesday afternoon/evening social excursion to “Over the Vines” in Edgerton, WI, featuring local food and drinks.

The conference will be preceded on July 21 with a number of both full-day and half-day workshops covering a wide range of topics of relevance to the field of psychometrics.

While you’re in Madison, we hope you will take time to enjoy the city’s various lakefronts and attractions. Housing accommodations are near the shore of Lake Mendota and the Library Mall of the University of Wisconsin - Madison, and within short walking distance to the State of Wisconsin Capitol building, the unique restaurants and shops of State Street, the recently renovated and expanded Chazen Museum of Art, the Overture Center for the Arts, the Howard Temin Lakeside path, and the Memorial Union Terrace. The many and diverse recreational opportunities in Madison help make it consistently ranked near the top of lists of “America’s most livable cites.”

Enjoy the meeting and your stay in Wisconsin!

Dan Bolt       David Kaplan       Jim Wollack
Co-Local Organizers for the 2014 IMPS Meeting
Monday, July 21

6:30-8:30am  Breakfast for The Lowell Center Guests  
           Dining Room, The Lowell Center

7:45am-5:00pm  Conference Registration Open  
                Main Lobby, The Pyle Center

7:45am-5:00pm  Speaker Practice Room Open  
                Room 317, The Pyle Center

8:00-10:00am  Coffee Service

8:30am-5:00pm  Pre-Conference Workshops

     Advances in Latent Variable Modeling using Mplus  
           Room 313, The Pyle Center

     flexMIRT®: Flexible Multilevel Multidimensional Item  
           Analysis and Test Scoring  
           Room 213, The Pyle Center

     An Introduction to Multi-way Analysis (am only)  
           Room 309, The Pyle Center

     Social Networks in Education Research (pm only)  
           Room 309, The Pyle Center

     Propensity Score Methods for Causal Inference (am only)  
           Room 226, The Pyle Center

10:00am  Beverage Break

12:00-1:30pm  Lunch On Your Own

12:00-1:30pm  Graduate Student Luncheon  
                Lee Lounge, The Pyle Center

12:00-2:00pm  Editorial Council Lunch & Meeting  
                Room 320, The Pyle Center

1:30-5:00pm  Pre-Conference Workshops Resume

Monday, July 21 (continued)

3:00pm  Beverage Break

3:00-5:00pm  Board of Trustees Meeting  
                Room 320, The Pyle Center

5:00pm  Dinner On Your Own

7:00pm  Evening Social at Memorial Union  
           Memorial Union Terrace

Tuesday, July 22

6:30-8:30am  Breakfast for The Lowell Center Guests  
                Room 118, The Lowell Center

7:30-10:30am  Registration & Information  
                Lower Lounge, The Lowell Center

7:45am-5:00pm  Speaker Practice Room  
                Room 317, The Pyle Center

8:00-8:15am  Session Chair/ Moderator & Volunteers Training  
                Dining Room, The Lowell Center
### Tuesday, July 22 (continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30-9:00am</td>
<td><strong>IMPS Continental Breakfast</strong></td>
<td>Dining Room Lobby, The Lowell Center</td>
</tr>
<tr>
<td>9:00-9:15am</td>
<td><strong>Welcome &amp; Opening: Local Organizer &amp; UW-Madison School of Education Dean</strong></td>
<td>Dining Room, The Lowell Center</td>
</tr>
<tr>
<td>9:15-10:15am</td>
<td><strong>Keynote: Bengt Muthen</strong></td>
<td>Dining Room, The Lowell Center</td>
</tr>
<tr>
<td>10:15-10:35</td>
<td><strong>Beverage Break</strong></td>
<td>Dining Room Lobby, The Lowell Center</td>
</tr>
<tr>
<td>10:15-10:35</td>
<td><strong>Registration &amp; Information</strong></td>
<td>Main Lobby, The Pyle Center</td>
</tr>
<tr>
<td>10:35am-12:15pm</td>
<td><strong>Concurrent Session A</strong></td>
<td>Various Rooms, The Pyle Center</td>
</tr>
<tr>
<td>12:15-1:15pm</td>
<td><strong>Lunch</strong></td>
<td>Alumni Lounge, The Pyle Center</td>
</tr>
<tr>
<td>1:15-2:55pm</td>
<td><strong>Concurrent Session B</strong></td>
<td>Various Rooms, The Pyle Center</td>
</tr>
<tr>
<td>2:55-3:15pm</td>
<td><strong>Beverage Break</strong></td>
<td>Room 313 &amp; 325/326, The Pyle Center</td>
</tr>
<tr>
<td>3:15-4:00pm</td>
<td><strong>Invited Talk: Sy-Miin Chow</strong></td>
<td>Room 325/326, The Pyle Center</td>
</tr>
<tr>
<td>3:15-4:00pm</td>
<td><strong>Invited Talk: Michael Edwards</strong></td>
<td>Room 313, The Pyle Center</td>
</tr>
<tr>
<td>4:00-5:20pm</td>
<td><strong>Concurrent Session C</strong></td>
<td>Various Rooms, The Pyle Center</td>
</tr>
<tr>
<td>5:30-7:15pm</td>
<td><strong>Campus Walking Tour (optional)</strong></td>
<td>Departs from The Pyle Center Main Lobby</td>
</tr>
<tr>
<td>5:30pm</td>
<td><strong>Dinner and Evening On Your Own</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Wednesday, July 23

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30-8:30am</td>
<td><strong>Breakfast for The Lowell Center Guests</strong></td>
<td>Dining Room, The Lowell Center</td>
</tr>
<tr>
<td>7:30am-5:00pm</td>
<td><strong>Registration &amp; Information</strong></td>
<td>Room 305, The Pyle Center</td>
</tr>
<tr>
<td>7:30am-5:00pm</td>
<td><strong>Speaker Practice Room</strong></td>
<td>Room 317, The Pyle Center</td>
</tr>
<tr>
<td>8:30-10:10am</td>
<td><strong>Concurrent Session D</strong></td>
<td>Various Rooms, The Pyle Center</td>
</tr>
<tr>
<td>10:10-10:30am</td>
<td><strong>Beverage Break</strong></td>
<td>Room 325/326, The Pyle Center</td>
</tr>
<tr>
<td>10:30-11:15am</td>
<td><strong>State of the Art Talk: Hao Wu</strong></td>
<td>Room 325/326, The Pyle Center</td>
</tr>
<tr>
<td>10:30-11:15am</td>
<td><strong>State of the Art Talk: Myrsini Katsikatsou</strong></td>
<td>Room 313, The Pyle Center</td>
</tr>
<tr>
<td>11:20-11:40am</td>
<td><strong>Group Photo</strong></td>
<td>Rooftop Terrace, The Pyle Center</td>
</tr>
<tr>
<td>11:45am-12:45pm</td>
<td><strong>Lunch</strong></td>
<td>Alumni Lounge, The Pyle Center</td>
</tr>
<tr>
<td>12:50-2:30pm</td>
<td><strong>Concurrent Session E</strong></td>
<td>Various Rooms, The Pyle Center</td>
</tr>
<tr>
<td>2:30-2:50pm</td>
<td><strong>Beverage Break</strong></td>
<td>Dining Room Lobby, The Lowell Center</td>
</tr>
<tr>
<td>2:50-3:50pm</td>
<td><strong>Keynote: Peter Bentler</strong></td>
<td>Dining Room, The Lowell Center</td>
</tr>
<tr>
<td>3:50-4:50pm</td>
<td><strong>Keynote: Fritz Drasgow</strong></td>
<td>Dining Room, The Lowell Center</td>
</tr>
<tr>
<td>4:50-5:15pm</td>
<td><strong>On Your Own</strong></td>
<td></td>
</tr>
</tbody>
</table>
Wednesday, July 23 (continued)

5:00, 5:15, 5:30, 5:45, 6:10, 7:00pm  
Shuttle Bus Departs from Conference Lodging Facilities for Over the Vines Vineyard and Wine Barn  
(see Evening Events for details)

6:15-9:30pm  
Welcome to Wisconsin Reception  
Over the Vines Vineyard and Wine Barn  
(remember to bring your drink ticket)

8:30, 8:45, 9:00, 9:15, 9:30pm  
Shuttle Bus Departs from Over the Vines Vineyard and Wine Barn for Conference Lodging Facilities  
(see Evening Events for details)

Thursday, July 24 (continued)

8:30-10:10am  
Concurrent Session F  
Various Rooms, The Pyle Center

10:10-10:30am  
Beverage Break  
Room 313 & 325/326, The Pyle Center

10:30am-12:10pm  
Concurrent Session G  
Various Rooms, The Pyle Center

12:10-1:30pm  
Lunch  
Alumni Lounge, The Pyle Center

1:30-2:30pm  
Keynote: Howard Wainer  
Dining Room, The Lowell Center

2:30-3:25pm  
Business Meeting  
Dining Room, The Lowell Center

3:25-3:45pm  
Beverage Break  
Room 313 & 325/326, The Pyle Center

3:15-4:30pm  
Poster Session Preparation  
AT&T & Lee Lounges, The Pyle Center

3:45-4:30pm  
Invited Talk: Gitta Lubke  
Room 325/326, The Pyle Center

3:45-4:30pm  
Invited Talk: Jonathan Templin  
Room 313, The Pyle Center

4:30-6:30pm  
Poster Session & Reception  
AT&T & Lee Lounges, The Pyle Center

6:30pm  
Evening On Your Own
Friday, July 25

6:30-8:30am  Breakfast for The Lowell Center Guests  
Dining Room, The Lowell Center

7:30am-12:00pm  Speaker Practice Room  
Room 317, The Pyle Center

7:30am-1:00pm  Registration & Information  
Room 305, The Pyle Center

8:30-10:10am  Concurrent Session H  
Various Rooms, The Pyle Center

10:10-10:30am  Beverage Break  
Room 313 & 325/326, The Pyle Center

10:30-11:15am  State of the Art Talk: Peter Steiner  
Room 325/326, The Pyle Center

10:30-11:15am  State of the Art Talk: Sonya Sterba  
Room 313, The Pyle Center

11:20 am -12:30pm  Lunch  
Alumni Lounge, The Pyle Center

12:30-6:00pm  Registration & Information  
Main Lobby, The Lowell Center

12:45-1:30pm  Dissertation Award Address: Hye Won Suk  
Dining Room, The Lowell Center

1:30-2:30pm  Presidential Address  
Dining Room, The Lowell Center

2:30-2:50pm  Beverage Break  
Dining Room, The Lowell Center

2:50-3:50pm  Keynote: Judea Pearl  
Dining Room, The Lowell Center

3:50-5:00pm  Awards Ceremony & IMPS 2015 Presentation  
Dining Room, The Lowell Center

Friday, July 25 (continued)

5:00-5:30pm  On Your Own

5:30, 6:30pm  Shuttle Bus Departs for Monona Terrace  
(see Evening Events for details)

6:30pm  Closing Reception & Banquet Dinner  
Monona Terrace Community and Convention Center

7:30pm  Plated Dinner Served  
(remember to bring your name tag and dinner ticket)  
Monona Terrace Community and Convention Center

9:00, 9:50pm  Shuttle Bus Departs for Lodging Facilities  
(see Evening Events for details)

10:00pm  Evening Event Concludes  
Monona Terrace Community and Convention Center

Conference Concludes

Saturday, July 26

7:00, 8:30am  Shuttle Bus Departs for Dane County Airport  
(see General Conference Information for details)

7:30-9:30am  Breakfast for The Lowell Center Guests  
Dining Room, The Lowell Center

8:00am  Walking Group to Dane County Farmers’ Market  
Main Lobby, The Lowell Center

6:00am-2:00pm  Dane County Farmers’ Market  
Wisconsin State Capitol Square

8:30-10:10am  Concurrent Session H  
Various Rooms, The Pyle Center

10:30-11:15am  State of the Art Talk: Peter Steiner  
Room 325/326, The Pyle Center

10:30-11:15am  State of the Art Talk: Sonya Sterba  
Room 313, The Pyle Center

11:20 am -12:30pm  Lunch  
Alumni Lounge, The Pyle Center

12:30-6:00pm  Registration & Information  
Main Lobby, The Lowell Center

12:45-1:30pm  Dissertation Award Address: Hye Won Suk  
Dining Room, The Lowell Center

1:30-2:30pm  Presidential Address  
Dining Room, The Lowell Center

2:30-2:50pm  Beverage Break  
Dining Room, The Lowell Center

2:50-3:50pm  Keynote: Judea Pearl  
Dining Room, The Lowell Center

3:50-5:00pm  Awards Ceremony & IMPS 2015 Presentation  
Dining Room, The Lowell Center
After a brief overview of the many uses of finite mixture modeling, applications of new mixture modeling developments are discussed. One major development goes beyond the conventional mixture of normal distributions to allow mixtures with flexible non-normal distributions. This has interesting applications to cluster analysis, factor analysis, SEM, and growth modeling. The talk focuses on applications of Growth Mixture Modeling for continuous outcomes that are skewed. Examples are drawn from national longitudinal surveys of BMI as well as twin studies. Extensions of this modeling to the joint study of survival and non-ignorable dropout are also discussed.

Classical test theory contains parameters such as reliability coefficients that can be population specific, but methods for judging the degree of invariance of such quantities across contexts are not well developed. When a given scale has scores that are described as having a given reliability, it is hard to know how generalizable or subject to conditions such a result may be. Reliability generalization meta-analysis has provided the main methodology for addressing this issue (e.g., Vacha-Haase & Thompson, 2011). A single-sample methodology is proposed here for evaluating the effects of covariates on reliability. Coefficient alpha, 1-factor reliability, model-based reliability, the greatest lower bound, and quantile lambda-4 reliability are partitioned into additive covariate-free and covariate-dependent reliability coefficients whose sum is the defined reliability measure. In this setting, high reliability generalization occurs when, for a meaningful selection of possibly confounding covariates, covariate-based reliability is trivially small.
Measurement of Traits Obtained Via Self-Report
Fritz Drasgow, University of Illinois at Urbana-Champaign

Many important psychological constructs are assessed by self-report measures: examples include attitudes, values, job satisfaction, personality, and vocational interests. Since the time of Likert, the vast majority of instruments measuring such traits have assumed a dominance process underlies responses. A growing body of evidence challenges the assumption of a dominance process and instead indicates that ideal point models are required for an adequate characterization of the response process. The fit of dominance and ideal point models to personality and vocational interest instruments will be summarized. The Tailored Adaptive Personality Assessment System (TAPAS), a personality assessment instrument based on an ideal point model, will be described.

The Science of Cause and Effects
Judea Pearl, UCLA

The enormous progress in the science of causation in the past two decades has hardly impacted psychometric practices and education.

To close this gap, I will reduce the science to just two fundamental principles: (1) How counterfactuals are to be computed from an assumed data-generating process, and (2) How dependencies in the observed data can be inferred from the structure of the process.

I will then describe how these two principles alone lead to remarkably powerful techniques of answering practical, yet non-trivial questions in psychometric research. These include: policy evaluation, confounding control, external validity, sample selection bias, heterogeneity, mediation, causes-of-effects and missing data.

Three Examples of how Mistreating Missing Data Yields Misguided Educational Policy
Howard Wainer, National Board of Medical Examiners
2013 Career Award Recipient

In this talk I will describe three educational proposals that only make sense if you say them fast. In each case, their validity relies strongly on the data that are missing to have a particular structure, and in each case, that assumed missing-data structure can be dismissed. The three proposals that will be examined are: 1) make college entrance exams optional, 2) allow students to choose which test items they will answer, and 3) evaluate teachers on the gains their students show in test scores.
From difference scores to confirmatory dynamic/longitudinal models, the study of change remains a central question of interest to researchers in the social and behavioral sciences. In the realm of dynamical systems modeling, the last decades have evidenced a gradual shift from heavy reliance on exploratory techniques to confirmatory approaches of studying dynamic processes via model fitting. Differential equation models provide a direct representation of change processes while allowing the data to be irregularly spaced—a common feature of data collected from ecological momentary assessment studies. In this talk, several existing approaches for fitting ordinary linear and nonlinear differential equation models with random effects to irregularly spaced data are considered. The use of functional data analysis approaches for model explorations, derivative estimation, and model-fitting in a multi-step approach will be illustrated and compared with other single-step approaches for fitting ordinary differential equations.

**Some Thoughts on Validity and Model Fit**
Michael Edwards, Ohio State University

Although there are many definitions offered for validity (and validation), my favorite is still Messick’s 1989 (p.13, emphasis in original), “Validity is an integrated evaluative judgment of the degree to which empirical evidence and theoretical rationales support the adequacy and appropriateness of inferences and actions based on test scores or other modes of assessment.” While recently reading the (very excellent) Frontiers of Test Validity Theory (Markus & Borsboom, 2013) it struck me that just as scores from a test require validity evidence to support their use, so too do various model fit indexes used in psychometrics. In this talk, I will review some similarities in the problem of validity found in testing and the evaluation of model fit. I will highlight some progress that we have made as well as some areas I believe more work is needed to be done. I conclude with some general conclusions and suggested future directions.
AbNormal Psychometrics: Measurement of Rare, Skewed, and Otherwise Irregular Latent Variables
Jonathan Templin, University of Kansas

When measuring psychological or biological disorders, it is often the case that a sizeable portion of a sample may exhibit no evidence of a given disorder. This type of heterogeneity is at odds with customary psychometric analyses for the development of screening instruments. More specifically, these samples do not follow the often-assumed symmetric normal or Gaussian distributions for latent variables and also do not follow a simple structure of items measuring such variables. In this talk I discuss models with non-normal latent variables, beginning with a comparison of classical normal latent variable-based psychometric models, such as factor analytic or item response models, to a newer class of non-normal latent variable diagnostic classification models. Framing the comparison as portions of a larger set of “doubly-generalized” linear models, I draw from disparate literatures: statistical mixed modeling and artificial intelligence/machine learning to show how such models have been anticipated but not widely used in psychometric research. To highlight the potential such doubly-generalized models have for informing research and clinical practice, I demonstrate the utility of differing distributions of latent variables in the analysis of a psychiatric screening instrument. I conclude the talk with a discussion of unresolved issues for psychometric analyses with doubly-generalized models.

Pairwise Maximum Likelihood for Structural Equation Models: Estimation and Testing
Myrsini Katsikatsou, London School of Economics and Political Science

Latent variable modelling is a well established framework within Social Sciences where the variables of interest are constructs, such as attitudes, beliefs, skills, etc. When the latent variables are taken to be continuous there are two approaches to latent variable modelling, the Underlying Variable approach used in Structural Equation Modelling (SEM) and the response function approach used in Item Response Theory. In both approaches, when the data are ordinal or of mixed type (ordinal and continuous), full information maximum likelihood (FIML) estimation is not feasible for large models. Within the SEM approach, limited information stepwise estimation methods have been developed and implemented in commercial software. In this talk, we propose an alternative estimation method of likelihood type, the pairwise maximum likelihood (PML). The advantage of the method is that the whole machinery of FIML for inference can be extended to the case of PML. We develop: a) a pairwise likelihood ratio test (PLRT) for testing nested structural equation models and overall goodness-of-fit of a model; and b) model selection criteria of AIC and BIC type under the pairwise likelihood framework. The latter are not possible to be estimated under the current three-stage limited information estimation methods. Simulation results will be presented to show the performance of PML estimation and the related test statistics under different simulation scenarios. Moreover, a comparison with existing methods of estimation and testing will be presented.
STATE OF THE ART TALKS

Model Error as a Random Effect
Hao Wu, Boston College

Models are rarely exactly correct in the population, and the consequence of an incorrect model is misspecification. This misspecification is usually considered as a fixed value in the population and estimated as an effect size measure of model fit. This talk will present an alternative approach where model error is assumed to arise as a random quantity and modeled with a distribution. The dispersion of this random effect serves as a measure of the size of model error. Parameters are estimated through maximum marginal likelihood and its sampling distribution accounts for the effects of both sampling error and model error. Other recent developments in the evaluation of model error will also be surveyed.

Propensity Score Designs for Causal Inference: Challenges in Practice
Peter Steiner, University of Wisconsin- Madison

The popularity of propensity score (PS) methods for estimating causal treatment effects from observational studies has been strongly increasing during the past decade. However, the success of PS designs in removing selection bias rests on strong assumptions for identifying and estimating causal effects—particularly the strong ignorability assumption that requires that all confounding covariates are reliably measured. After an introduction to the design and analysis of different PS methods (matching, stratification, weighting, and regression), the talk mainly focuses on practical challenges in implementing a valid PS design: (i) The selection of baseline covariates for removing confounding bias; (ii) the influence of covariate measurement error on bias reduction; (iii) the choice of a specific PS design; (iv) the assessment of hidden bias due to unobserved confounders. All these issues will be illustrated and discussed using evidence from simulation studies, meta-analyses, and within-study comparisons from the social and behavioral sciences.

Structural Equation Modeling Approaches for Analyzing Partially Nested Data
Sonya Sterba, Vanderbilt University

Study designs involving clustering in some study arms, but not all study arms, are common in clinical treatment-outcome and educational settings. For instance, in a treatment arm, persons may be nested in therapy groups, whereas a control arm may have no groups. Methodological approaches for handling such partially nested designs have previously been developed in a multilevel modeling framework (MLM-PN, e.g. Bauer, Sterba & Hallfors, 2008). Recently, two alternative structural equation modeling (SEM) approaches for analyzing partially nested data were introduced: a multivariate single-level SEM (SSEM-PN) and a multiple-arm multilevel SEM (MSEM-PN) (Sterba, Preacher, Forehand, Hardcastle, Cole & Compas, in press). In this talk, I compare and contrast these approaches and show how SSEM-PN and MSEM-PN can produce results equivalent to existing MLM-PNs. I also describe how they can be extended to flexibly accommodate several modeling features that are difficult or impossible to incorporate in MLM-PN. Importantly, implementation of such features for partially nested designs differs from fully nested designs. An empirical example involving a partially nested depression intervention combines several of these features in an analysis of interest for treatment-outcome studies.
### SESSIONS

**Symposium: Different Perspectives on Equating using IRT Models**  
**Chair:** Bjoern Andersson  
**Pye:** Jorge Gonzalez, Marie Wiberg, Mengyao Zhang, Alina von Davier

**IRT Model Fit & Aberrant Responding**  
**Chair:** Holmes Finch  
**Pye:** Seo Young Lee, Joseph Betts, Ji Hoon Ryoo, Chun Wang

**Longitudinal Data**  
**Chair:** Chun Wang

**Reliability**  
**Chair:** Andrew Maul

**Computerized Testing**  
**Chair:** David Torres

**Missing Data**  
**Chair:** Bryan Keller

**Scoring**  
**Chair:** Youngsuk Suh

---

**MONDAY, JULY 21**

- **Breakfast for The Lowell Center Guests** - Dining Room, The Lowell Center  
  6:30-8:30am

- **Conference Registration Open** - Main Lobby, The Pyle Center  
  7:45am-5:00pm

- **Speaker Practice Room** - Room 317, The Pyle Center  
  7:45am-5:00pm

- **Coffee Service**  
  8:00-10:00am

- **Pre-Conference Workshops** - Various Rooms, The Pyle Center  
  8:30am-5:00pm

- **Beverage Break**  
  10:00am

- **Lunch On Your Own**  
  12:00-1:30pm

- **Graduate Student Luncheon** - Lee Lounge, The Pyle Center  
  12:00-1:30pm

- **Editorial Council Lunch & Meeting** - Room 320, The Pyle Center  
  12:00-2:00pm

- **Pre-Conference Workshops Resume** - Various Rooms, The Pyle Center  
  1:30pm

- **Beverage Break**  
  3:00

- **Board of Trustees Meeting** - Room 320, The Pyle Center  
  3:00-5:00pm

- **Dinner On Your Own**  
  5:00pm

- **Evening Social at Memorial Union**  
  7:00pm

---

**TUESDAY, JULY 22**

- **Breakfast for The Lowell Center Guests** - Room 118, The Lowell Center  
  6:30-8:30am

- **Registration & Information** - Lower Lounge, The Lowell Center  
  7:30-10:30am

- **Session Chair/ Moderator & Volunteers Training** - Dining Room, The Lowell Center  
  8:00-8:15am

- **IMPS Continental Breakfast** - Dining Room Lobby, The Lowell Center  
  8:30-9:00am

- **Welcome & Opening** - Conference Chairperson, UW-Madison Dean  
  9:00-9:15am

- **Keynote** - Bengt Muthen - Dining Room, The Lowell Center  
  9:15-10:15am

- **Beverage Break** - Dining Room Lobby, The Lowell Center  
  10:15-10:35am

- **Registration & Information** - Main Lobby, The Pyle Center  
  10:15-5:30pm

---

### The Pyle Center

<table>
<thead>
<tr>
<th>Room</th>
<th>Schedule</th>
<th>Location</th>
</tr>
</thead>
</table>
| Room 313 | Symposium: Different Perspectives on Equating using IRT Models  
Chair: Bjoern Andersson |
| Room 309 | IRT Model Fit & Aberrant Responding  
Chair: Holmes Finch  
Seo Young Lee, Joseph Betts, Ji Hoon Ryoo, Chun Wang |
| Room 226 | Longitudinal Data  
Chair: Chun Wang |
| Room 225 | Reliability  
Chair: Andrew Maul  
Pieter Oosterwijk, L. Andries vanderArk, Cees Glas, Jay Verkuilen, Tenko Raykov |
| Room 213 | Computerized Testing  
Chair: David Torres  
Emre Gonulates, Bernard Veldkamp, David Shin, Chanjin Zheng |
| Room 220 | Missing Data  
Chair: Bryan Keller  
Joost van Ginkel, Ashley Lawrence, Qian Zhang, Irini Moustaki |
| Room 325/326 | Scoring  
Chair: Youngsuk Suh  
Diane Losardo, Jing Chen, Minji Lee, Edward Ip, Youngkoug Kim |

### Concurrent Session A

- **10:35am - 12:15pm**
  - **Lunch** - Alumni Lounge, The Pyle Center  
  12:15-1:15pm
<table>
<thead>
<tr>
<th>Time</th>
<th>Session A</th>
<th>Session B</th>
<th>Session C</th>
<th>Session D</th>
</tr>
</thead>
</table>
| 1:15 - 2:55pm | Symposium: Designing Simulation & Game-Based Assessments  
Chair: Alina von Davier  
Alina von Davier  
Saad Khan  
Michelle LaMar  
Deirdre Kerr  |Diagnostic Models  
Chair: Steven Culpepper  
Mark Hansen  
Youn Seon Lim  
Chia-Yi Chiu  
Yunxiao Chen  
Yeongyu Lim  |Applications  
Chair: Hallemichael Worku  
Daeseok Kim  
Hanjoe Kim  
Po-Hsi Chen  
Kazuya Ikehara  |FMRI and Related Methods  
Chair: Heungsun Hwang  
Guangjian Zhang  
Kwanghee Jung  
Warren Bilker  
Fei Gu  |
| 3:15 - 4:00pm | Symposium: Educational Data Mining: Characterizing Students' Process in Scenario-Based Tasks  
Chair: Mengxiao Zhu  
Mengxiao Zhu  
Zhan Shu  
Jiangang Hao  
Yoav Berger  |Mediation  
Chair: Peter Halpin  
Charlotte Cunningham  
Kaylee Linson  
Yuyu Fan  
Zhiyong Zhang  |Scaling and Clustering  
Chair: Anne Thissen-Roe  
Willem Heiser  
Yutaka Nishida  
Stella Bollmann  
Ji Yeh Choi  |IRT Modeling  
Chair: L. Andries vanderArk  
Burhanettin Ozdemir  
Yang Liu  
Henk Keldermer  
Wen-Chung Wang  |
| 4:00 - 5:20pm | Symposium: Educational Data Mining: Characterizing Students' Process in Scenario-Based Tasks  
Chair: Mengxiao Zhu  
Mengxiao Zhu  
Zhan Shu  
Jiangang Hao  
Yoav Berger  |Mediation  
Chair: Peter Halpin  
Charlotte Cunningham  
Kaylee Linson  
Yuyu Fan  
Zhiyong Zhang  |Scaling and Clustering  
Chair: Anne Thissen-Roe  
Willem Heiser  
Yutaka Nishida  
Stella Bollmann  
Ji Yeh Choi  |IRT Modeling  
Chair: L. Andries vanderArk  
Burhanettin Ozdemir  
Yang Liu  
Henk Keldermer  
Wen-Chung Wang  |
<p>| 3:15 - 4:00pm | Invited Talk: Sy-Miin Chow - Room 325/326, The Pyle Center |Invited Talk: Michael Edwards - Room 313, The Pyle Center |  |  |
| 5:30 - 7:15pm | Campus Walking Tour - Departing from The Pyle Center Lobby |Dinner and Evening On Your Own |  |  |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Concurrent Session D</th>
<th>Room 313</th>
<th>Room 309</th>
<th>Room 226</th>
<th>Room 225</th>
<th>Room 213</th>
<th>Room 220</th>
<th>Room 325/326</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 -10:10am</td>
<td>Symposium: Metrological and Philosophical Considerations in Measurement</td>
<td>Chair: Andrew Maul Andrew Maul David Torres Iribarreta Luca Mari Mark Wilson</td>
<td>Chair: Bernard Veldkamp Computer-based Testing Darrin Grelle Ya-Hui Su Qiwei He</td>
<td>Chair: Carl Falk Model Comparison Sara Steegen Joseph F. Lucke Euijin Kim Meereem Kim Annelies Bartlema</td>
<td>Chair: David Kaplan Resampling and Simulation Techniques Albert Satorra Merijn Mestdagh Todd Christopher Headrick Michael Harwell Ru Lu</td>
<td>Chair: Bonnie J.H. Zijlstra Network-Related Methods Qiwen Zheng Laura Bringmann Tracy Sweet An-Shun Tai Johnny Lin</td>
<td>Chair: Won-chan Lee Item Location/ Difficulty Studies Dries Debeer Can Shao Eren Halil Ozberk Rebecca Freund Michael Walker</td>
<td>Chair: David Magis DIF</td>
</tr>
<tr>
<td></td>
<td>Beverage Break - Room 313 &amp; 325/326, The Pyle Center</td>
<td>10:00-10:30am</td>
<td>10:00 -10:30am</td>
<td>10:10 -10:40am</td>
<td>10:10 -10:40am</td>
<td>10:10 -10:40am</td>
<td>10:10 -10:40am</td>
<td>10:10 -10:40am</td>
</tr>
<tr>
<td></td>
<td>Lunch - Alumni Lounge, The Pyle Center</td>
<td>11:45am-12:15pm</td>
<td>11:45am-12:15pm</td>
<td>11:45am-12:15pm</td>
<td>11:45am-12:15pm</td>
<td>11:45am-12:15pm</td>
<td>11:45am-12:15pm</td>
<td>11:45am-12:15pm</td>
</tr>
<tr>
<td>Time</td>
<td>Concurrent Session E</td>
<td>Room 313</td>
<td>Room 309</td>
<td>Room 226</td>
<td>Room 225</td>
<td>Room 213</td>
<td>Room 325/326</td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>----------------------</td>
<td>--------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Applications Chair: April Galvardt</td>
<td>2:30-2:50pm</td>
<td>2:30 -2:50pm</td>
<td>2:30 -2:50pm</td>
<td>2:30 -2:50pm</td>
<td>2:30 -2:50pm</td>
<td>2:30 -2:50pm</td>
<td>2:30 -2:50pm</td>
</tr>
<tr>
<td></td>
<td>Keynote: Peter Bentler - Dining Room, The Lowell Center</td>
<td>2:50-3:50pm</td>
<td>2:50 -3:50pm</td>
<td>2:50 -3:50pm</td>
<td>2:50 -3:50pm</td>
<td>2:50 -3:50pm</td>
<td>2:50 -3:50pm</td>
<td>2:50 -3:50pm</td>
</tr>
<tr>
<td></td>
<td>- Over the Vines Vineyard and Wine Barn (see Evening Events for details)</td>
<td>6:15-9:30pm</td>
<td>6:15 -9:30pm</td>
<td>6:15 -9:30pm</td>
<td>6:15 -9:30pm</td>
<td>6:15 -9:30pm</td>
<td>6:15 -9:30pm</td>
<td>6:15 -9:30pm</td>
</tr>
</tbody>
</table>

**Wednesday, July 23**
### Concurrent Session F

**8:30 - 10:10am**

**Symposium:** Modeling Response Styles with Multidimensional IRT Approaches  
Chair: Albert Maydeu-Olivares  
Ulf Bockenholt  
Clas Carstensen  
Thorsten Meiser  
Lale Khorramdel  
Adam Sales  
Jianshen Chen  
Ling Ning  
Han Du

**Design and Analysis Issues**  
Chair: Chris Swoboda  
Jue Wang  
Ronli Diakow  
Ji Seung Yang  
Bonne J.H. Zijlstra  
Kevin Raczynski

**Multilevel and Mixed Models**  
Chair: Stephen France  
Scott Monroe  
Karl Schweizer  
Hao Luo  
Christine DiStefano  
Megan Kuhfeld

**Symposium:** The Use of Plausible Values in Predictive Inference  
Chair: Lynne Steuerle Schoffeld  
Jean-Paul Fox  
David Kaplan  
Matthias von Davier  
Lynne Steuerle Schoffeld  
Brian Junker  
Haiyan Liu  
Trevor Park  
Shaobo Jin  
Fan Wallentin  
Hailiemichael Metiku Worku  
Yanming Jiang  
Bradley Smith  
Wim van der Linden  
Michelle D. Barrett  
Zhongmin Cui

**Factor Analysis Models**  
Chair: Jay Verkuilen  
Scott Monroe  
Karl Schweizer  
Hao Luo  
Christine DiStefano  
Megan Kuhfeld  
Gunther Schauberger  
Brooke Magnus  
David Magis  
Heather Jeffers  
Mei Ling Ong

**DIF**  
Chair: Carol Woods  
Gunther Schauberger  
Brooke Magnus  
David Magis  
Heather Jeffers  
Mei Ling Ong

**IRT Estimation**  
Chair: Dries DeBeer  
Rongchun Zhu  
Sunil Lamsal  
Kyung Yong Kim  
Seock-Ho Kim  
No Sessions Scheduled

---

### Concurrent Session G

**10:30am - 12:10pm**

**Symposium:** The Use of Plausible Values in Predictive Inference  
Chair: Lynne Steuerle Schoffeld  
Jean-Paul Fox  
David Kaplan  
Matthias von Davier  
Lynne Steuerle Schoffeld  
Brian Junker  
Haiyan Liu  
Trevor Park  
Shaobo Jin  
Fan Wallentin  
Hailiemichael Metiku Worku  
Yanming Jiang  
Bradley Smith  
Wim van der Linden  
Michelle D. Barrett  
Zhongmin Cui

**Analysis of Covariance Structures**  
Chair: Zhiyong Zhang

**Linking/Equating**  
Chair: Alina von Davier  
Mario Luzardo  
Pilar Rodriguez  
Klaas Sijtsma  
Renske E. Kuijpers  
Fan Wallentin  
Artur Pokropek

**Nonparametric IRT**  
Chair: Pieter Oosterwijk  
Fredrik Coomans  
Usama Ali  
Gongjun Xu  
Xiangzi Ouyang

**Response Times/Speed**  
Chair: Ken Fujimoto  
Xiangzi Ouyang  
Michel Philipp  
Abdullah Alsadaawi  
Likun Hou

**Differential Item Functioning**  
Chair: Carolin Strobl  
No Sessions Scheduled

---

### Thursday, July 24

- **Lunch** - Alumni Lounge, The Pyle Center  
  12:10-1:30pm
- **Keynote:** Howard Wainer - Dining Room, The Lowell Center  
  1:30-2:30pm
- **Business Meeting** - Dining Room, The Lowell Center  
  2:30-3:25pm
- **Beverage Break** - Room 313 & 325/326, The Pyle Center  
  3:25-3:45pm
- **Poster Session Preparation** - AT&T & Lee Lounges, The Pyle Center  
  3:15-4:30pm
- **Poster Session Preparation** - Room 313 & 325/326, The Pyle Center  
  10:10-10:30am
THURSDAY, JULY 24

The Pyle Center, AT&T Lounge

1. Aiden Loe  
2. EunYoung Lim  
3. Sooyoun Lee  
4. Su-Young Kim  
5. Patrick J. Rosopa  
6. Holmes Finch  
7. David Woodruff  
8. Yinhao Sun  
9. Qian Cao  
10. Nicole Kaminski-Öztürk  
11. Hansjörg Plieninger  
12. Jehanzeb  
13. Mina M. Lee  
14. EunHee Keum  
15. Kevin A. Kupzyk  
16. Sora Lee  
17. Lu Liang  
18. R. Philip Chalmers  
19. Shan Lin  
20. Jinah Choi  
21. Veronica T. Cole  
22. Seul Ki Koo  
23. Ching Lin  
24. Doyoung Park  
25. Divyanshu Vats  
26. Sayaka Arai  
27. Zhe Lin  
28. SunEun Kim  
29. Hyun Joo Jung  
30. Yachen Luo  
31. Jung-A Han  
32. Takashi Akiyama  
33. Soochel Yon  
34. Tomoya Okubo  
35. Sien Deng  
36. Eliana Montero-Rojas  
37. Andrew Lan  
38. William Muntean  
39. Shu-Ping Chen  
40. Tiffany Hogan  
41. Yanyan Sheng  
42. Yen Lee  
43. Houston F. Lester  
44. Dan Su  
45. Yiran Gao  
46. Wei Xu  
47. Saori Kubo  
48. Qing Zhang  
49. Melanie Wall  
50. Shuwen Tang  
51. Kelli Samonte  
52. Allison Ames  
53. Caio Lucidius Naberezny Azevedo  
54. Seulki Koo  
55. Eun-Hee Noh  
56. Dong Liu

Dinner and Evening On Your Own 6:30pm

THURSDAY, JULY 24

The Pyle Center, Lee Lounge

Breakfast for The Lowell Center Guests - Dining Room, The Lowell Center 6:30-8:30am
Registration & Information - Room 305, The Pyle Center 7:30am-1:00pm
Speaker Practice Room - Room 317, The Pyle Center 7:30am-12:00pm

FRIDAY, JULY 25

The Pyle Center  
Room 313  
Room 309  
Room 226

Symposium: New Directions in Personality Assessment Chair: Susan Embretson
Susan Embretson  
Jonas P. Bertling  
Dan Smith  
Patrick C. Kyllonen  
Heather Hayes

Rasch Modeling Chair: Wen-Chung Wang
Clemens Draxler  
Can Guerer  
Kuan-Yu Jin  
Ken Fujimoto

Measurement Modeling Chair: Usama Ali
April Galayrdt  
Won-chan Lee  
Stephen L. France  
Kotaro Ohashi

Measurement Invariance Chair: Ed Merkle
Xin Xin  
Justin L. Kern  
Ting Wang  
Pieter Kroonenberg

IRT and IRT Applications Chair: Claus Carstensen
Katherine Grace  
Jonas Carl F. Falk  
Cedric Taverne  
Xiaou Li  
Steven Culpepper

Diagnosis Applications Chair: Yanyan Sheng
Ehsan Bokhari  
HeeKyoung Kim  
Chanho Park  
Wenchao Ma

No Sessions Scheduled

H1  
H2  
H3  
H4  
H5  
H6  
H7

Beverage Break - Room 313 & Room 325/326, The Pyle Center 10:10-10:30am
State of the Art Talk: Peter Steiner - Room 325/326, The Pyle Center 10:30-11:15am
State of the Art Talk: Sonya Sterba - Room 313, The Pyle Center 10:30-11:15am

FRIDAY, JULY 25

IMPS July 21-25, 2014 Madison, Wisconsin, USA
### SESSIONS

**Lunch** - Alumni Lounge, The Pyle Center  
11:20am-12:30pm

**Registration & Information** - Main Lobby, The Lowell Center  
12:30-6:00pm

**Dissertation Award Address: Hye Won Suk**  
12:45-1:30pm

- Dining Room, The Lowell Center

**Presidential Address** - Dining Room, The Lowell Center  
1:30-2:30pm

**Beverage Break** - Dining Room Lobby, The Lowell Center  
2:30-2:50pm

**Keynote: Judea Pearl** - Dining Room, The Lowell Center  
2:50-3:50pm

**Awards Ceremony & IMPS 2015 Introduction**  
3:50-5:00pm

- Dining Room, The Lowell Center

**On Your Own**  
5:00-5:30pm

**Closing Reception & Banquet Dinner**  
6:30-10:00pm

- Monona Terrace Community and Convention Center,  
  (see Evening Events for details)

---

**FRIDAY, JULY 25**

- **Conference Shuttles to Dane County Airport**  
  See Shuttles, Pg. #41  
  7:00-9:20am

- **Breakfast for The Lowell Center Guests** - Dining Room, The Lowell Center  
  7:30-9:30am

- **Dane County Farmers’ Market** - Wisconsin State Capitol Square  
  6:00am-2:00pm

- **Walking Group to Dane County Farmers’ Market**  
  Main Lobby, The Lowell Center  
  8:00am

---

**SATURDAY, JULY 26**

---

Dane County Farmers’ Market - Photo Credit Bill Lubing
**EVENING & SPECIAL EVENTS**

**Memorial Union Terrace Gathering (optional)**  
Monday, July 21: 7:00pm

Join your colleagues at the Memorial Union Terrace along the beautiful shores of Lake Mendota.

The historic Memorial Union Terrace is the crown jewel of the UW-Madison campus and offers a stunning lakeshore setting and lively people watching--this event is a Madison, WI favorite. A cash bar will be open and burgers, brats, and other items will be for sale.

Memorial Union is two doors down from The Pyle Center, an easy walk from your lodging following a beverage and a burger. Look for the Psychometric Society signage to mark where the group is gathered. Come join us!

**UW-Madison Campus Walking Tour (optional)**  
Tuesday, July 22: 5:30–7:15pm  
*Departing from and returning to the front of The Pyle Center*

This is an optional guided campus walking tour exploring the University of Wisconsin-Madison. These 100-minute tours of campus are led by experienced student tour guides and highlight campus life, academics and the history of the university. This is a great way to kick off the week of the conference by orienting yourself to Madison, WI and the campus community. Following the tour, head up to State Street for some dinner on your own or with your colleagues.

**Welcome to Wisconsin Reception**  
Wednesday, July 23: 6:15-9:30pm  
*Over the Vines Vineyard and Wine Barn*

Join us for a wonderful social excursion of great food, cash bar, live music, and conversation at Over the Vines Vineyard and Wine Barn. Over the Vines is located in the scenic pastures of Edgerton, Wisconsin, only minutes from Madison. The barn was built in 1888 and guests will enjoy all the rustic charm of the local Wisconsin countryside and an operating vineyard. The event includes a heavy hors d’oeuvres reception featuring “Wisconsin-esque” flair and locally-made Wisconsin beers and wines. The excursion is open to Psychometric Society meeting attendees and their registered guests. You can purchase a guest ticket at the registration desk.

Live music by the local band and Madison’s 2013 Country/Bluegrass Performer of the Year, The Dang-Its, will be featured, giving the event just the right country feel. Their style of music dives into Honky Tonk, Western Swing, Bluegrass, Cajun, and Country, emphasizing tight arrangements with clear, soaring vocal harmonies. The Dang-Its are the band of choice to feature our Wisconsin and USA Americana.

Live music by the local band and Madison’s 2013 Country/Bluegrass Performer of the Year, The Dang-Its, will be featured, giving the event just the right country feel. Their style of music dives into Honky Tonk, Western Swing, Bluegrass, Cajun, and Country, emphasizing tight arrangements with clear, soaring vocal harmonies. The Dang-Its are the band of choice to feature our Wisconsin and USA Americana.

This is an outdoor event located in a historic Wisconsin barn and vineyard. Casual clothing, sturdy shoes and a sweater or jacket are recommended. The event will occur rain or shine, as we have the barn and tents as shelter.

After the conference day concludes, attendees will have time to return to their hotels for a brief period before the first shuttle departs from The Lowell Center at 5:15pm (see Shuttle Schedule on next page). Shuttle buses will remain at Over the Vines and will begin shuttling guests back to The Lowell Center and other conference lodging sites at 8:30pm in a staggered format.
Welcome to Wisconsin Reception (continued)
Schedule for the Evening:
5:00pm  Shuttles depart for Over the Vines Vineyard and Wine Barn
6:15pm  Cash Bar Reception and food with live bluegrass music by local band, The Dang-Its
8:30pm  Shuttles start a staggered departure back to conference lodging sites
9:30pm  Last shuttle leaves Over the Vines and the evening concludes
10:45pm  Last drop off at the DoubleTree Hotel

Shuttle Schedule to Over the Vines Vineyard and Wine Barn from Conference Lodging Facilities
5:00pm  Loading Bus #1 at The Lowell Center and Campus Inn on the corner of Frances and Langdon Streets
5:15pm  Bus #1 with 55 people departs
6:15pm  Bus #1 arrives at Over the Vines Vineyard and Wine Barn
5:15pm  Loading Bus #2 at The Lowell Center and Campus Inn on the corner of Frances and Langdon Streets
5:30pm  Bus #2 with 55 people departs
6:30pm  Bus #2 arrives at Over the Vines Vineyard and Wine Barn
5:30pm  Loading Bus #3 at The Lowell Center and Campus Inn on the corner of Frances and Langdon Streets
5:45pm  Bus #3 with 55 people departs
6:45pm  Bus #3 arrives at Over the Vines Vineyard and Wine Barn
5:45pm  Loading Bus #4 at Sellery Residence Hall on Johnson Street
6:00pm  Bus #4 with 55 people departs
7:00pm  Bus #4 arrives at Over the Vines Vineyard and Wine Barn
5:45pm  Loading Bus #5 at DoubleTree Hotel on Johnson Street
5:55pm  Bus #5 departs
6:10pm  Loading Bus #5 at Sellery Residence Hall on Johnson Street
6:20pm  Bus #5 with 55 people departs
7:20pm  Bus #5 arrives at Over the Vines Vineyard and Wine Barn
7:00pm  Loading Bus #1 at The Lowell Center and Campus Inn on the corner of Frances and Langdon Streets (last pick up of the night)
7:15pm  Bus #1 with 55 people departs
8:00pm  Bus #1 arrives at Over the Vines Vineyard and Wine Barn

Note: Local attendees are welcome to drive themselves to the event. Stop by the Registration & Information Desk for directions.
EVENING & SPECIAL EVENTS

Poster Session & Reception
Thursday, July 24: 4:30-6:30pm
AT&T and Lee Lounges, The Pyle Center

Explore a diverse collection of research at the poster session. Discuss topics that are sure to pique your interest with your peers in a casual, informal setting. Authors will be standing by their posters between 4:30 and 6:30pm.

Closing Reception & Banquet Dinner
Friday, July 25: 6:30-10:00pm
Monona Terrace Community and Convention Center Rooftop Terrace

Join us on the rooftop of the Monona Terrace Community and Convention Center for a final elegant dinner, cash bar, closing remarks and a beautiful sunset. The Monona Terrace rooftop boasts one of Madison’s most spectacular views with the State Capitol to the west and features the other lake, Lake Monona, to the east. The Frank Lloyd Wright-designed Monona Terrace Community and Convention Center is located to the eastern side of Madison’s vibrant downtown on the shore of Lake Monona, just off the Capitol Square. This spectacular multilevel structure features public promenades, meeting, and banquet rooms with striking lake views. Gracing the rooftop are 68,000 square feet of gardens.

Your guest is welcome to the banquet for an additional fee. Stop by the registration desk to inquire.

Bring a sweater or jacket because after the sun sets, it can get chilly. The inclement weather location will be inside the Monona Terrace in the Ballroom.

Schedule for the Evening:
5:30, 6:30pm  Banquet trolley shuttle runs in loops to Monona Terrace
6:30pm  Cocktails and sunset on the Monona Terrace Rooftop
7:30pm  Plated Sit Down Dinner (bring your meal ticket!)
8:30pm  Closing Remarks
9:00, 9:50pm  Banquet trolley shuttle runs in loops back to lodging sites
10:00pm  Evening Event Concludes

Closing Reception & Banquet Dinner (continued)
Getting to the Banquet

Walking
The walk to Monona Terrace is easy and safe along the bustling State Street and up to the Wisconsin State Capitol; the Monona Terrace is just on the other side of the Capitol at the end of Martin Luther King Jr. Blvd. It takes approximately 20 minutes from The Lowell Center. Attendees may also walk back to their lodging site at the end of the evening. State Street is well lit and many businesses are open for after-hours cocktails and coffee.

Trolley Shuttle
A 45-person trolley and two 31-person mini shuttle buses have been reserved to transport guests in 2 loops to the Monona Terrace. It is on a first come/first serve basis. We encourage you to enjoy the lovely walk up State Street to the Monona Terrace.

Note: The Trolley is not wheelchair accessible, so if attendees in wheelchairs require an accessible taxi, please let the staff at the Conference Registration & Information desk know where you are staying and what time you would like the van to pick you up.
EVENING & SPECIAL EVENTS

Closing Reception & Banquet Dinner (continued)

Shuttle Schedule to Monona Terrace from Conference Lodging Facilities

5:30pm  
5:45pm  
5:55pm  
6:15pm  
6:30pm  
6:45pm  
6:55pm  
7:15pm
Pick up at The Lowell Center and Campus Inn on the corner of Frances and Langdon Streets
Pick up at Sellery Residence Hall on Johnson Street
Pick up at the DoubleTree Hotel on Johnson Street
Drop at Monona Terrace front doors, level 4 at the main entrance
2nd pick up at The Lowell Center and Campus Inn on the corner of Frances and Langdon Street
2nd pick up at Sellery Residence Hall on Johnson Street
2nd pick up at the DoubleTree Hotel on Johnson Street
2nd drop at Monona Terrace front doors, level 4 at the main entrance

Shuttle Schedule from Monona Terrace to Conference Lodging Facilities

9:00pm  
9:15pm  
9:25pm  
9:35pm  
9:50pm  
10:10pm  
10:20pm  
10:30pm
1st return departure from Monona Terrace
Drop at The Lowell Center and Campus Inn on the corner of Frances and Langdon Streets
Drop at Sellery Residence Hall on Johnson Street
Drop at the DoubleTree Hotel on Johnson Street
2nd return departure from Monona Terrace
2nd drop at The Lowell Center and Campus Inn on the corner of Frances and Langdon Streets
2nd drop at Sellery Residence Hall on Johnson Street
2nd drop at the DoubleTree Hotel on Johnson Street

Note: The times above are approximate. Depending on traffic, road construction, weather and other related issues, shuttles will attempt to stay as close to this schedule as possible, but we please ask your patience if there are unexpected delays.

Dane County Farmers’ Market
Saturday, July 26: 8:00am

If you would like some company for this wonderful Saturday morning activity, meet in the The Lowell Center Main Lobby promptly at 8:00am to walk with your colleagues up State Street to the Wisconsin State Capitol.

The Dane County Farmer’s Market is the largest producer-only outdoor market in the U.S.A.

Located around the Wisconsin Capitol building, it features seasonal fare, artisan cheeses, flowers, bakery items, art, crafts, jewelry, local musicians, and a dose of Madison, Wisconsin’s local scene and community. Enjoy a snack on the Capitol lawn watching passers-by or just simply relax after the busy conference. Be sure to stop inside the Wisconsin State Capitol for a look at the dome art and beautiful granite designs. Restrooms are also available in the Wisconsin State Capitol building for public use.

Free and open to the public, market hours are 6:00am-1:30pm-ish, rain or shine!

Stroll back down State Street for some lunch, coffee, or souvenir shopping.

Dane County Farmers’ Market - Photo Credit Bill Lubing
GENERAL CONFERENCE INFORMATION

Name Badge Policy
Conference name badges are required for entrance to all Conference events.

Registration & Information Desk
Conference Registration will be available in the main lobby of The Pyle Center on Monday and Tuesday and also at The Lowell Center on Tuesday morning. An Information Desk is also available to offer assistance during the conference to make your visit to Madison more comfortable. The location of the Information Desk is in The Pyle Center, Room 305.

Hours of Operation:
Monday, July 21 7:45am-5:00pm – The Pyle Center, Main Lobby
Tuesday, July 22 7:30–10:30am - The Lowell Center, Main Lobby
           10:15am-5:30pm - The Pyle Center, Main Lobby
Wednesday, July 23 7:30am-5:00pm - The Pyle Center, Room 305
Thursday, July 24 7:30am-4:45pm - The Pyle Center, Room 305
Friday, July 25 7:30am-1:00pm - The Pyle Center, Room 305
           12:30-6:00pm - The Lowell Center, Main Lobby

Psychometric Society Membership Desk
An information desk will be available in The Pyle Center located on the Third Floor outside of Room 305. A representative from the National Office is available to offer assistance during the Conference to answer questions, renew memberships, or assist those interested in joining the Psychometric Society. To join online go to: https://psychometricsociety.org/user/register.

Hours of Operation:
Tuesday, July 22 12:00-3:30pm – The Pyle Center, Third Floor
Wednesday, July 23 9:30am-1:00pm - The Pyle Center, Third Floor
Thursday, July 24 9:30am-1:30pm - The Pyle Center, Third Floor
Friday, July 25 9:45am-12:45pm - The Pyle Center, Third Floor

Conference Sponsored Shuttle Buses
See the individual event pages for specific information and times of operation of conference sponsored buses. When shuttle buses are scheduled, they will pick up/drop off in front of The Lowell Center, Sellery Residence Hall, and DoubleTree Hotel. An IMPS conference sign will be displayed in the bus window.

Monday, July 21  No Shuttle
Tuesday, July 22  No Shuttle
Wednesday, July 23  Shuttle to Over the Vines Vineyard and Wine Barn
Thursday, July 24  No Shuttle
Friday, July 25  Shuttle to Monona Terrace
Saturday, July 26  Shuttle to Dane County Regional Airport

Airport Shuttle Service
Shuttle Schedule to Airport from Conference Lodging Facilities:
7:00am  Shuttle departs from The Lowell Center at the corner of Frances Street and Langdon Streets
7:15am  Shuttle pick up at Sellery Residence Hall on Johnson Street
7:30am  Shuttle pick up at the DoubleTree on Johnson Street
8:00am  Drop at the Dane County Airport
8:30am  Shuttle departs from The Lowell Center at the corner of Frances Street and Langdon Streets
8:45am  Shuttle pick up at Sellery Residence Hall on Johnson Street
9:00am  Shuttle pick up at the DoubleTree on Johnson Street
9:20am  Drop at the Dane County Airport

Additionally, the Campus Inn and the DoubleTree Hotel provide complimentary airport shuttle service. Please make arrangements directly with the hotel concierge for a shuttle to take you to the airport.

Taxi service is also available. Call a taxi service directly to make an appointment. It is best to call two hours in advance.

Badger Cab 608-256-5566
Union Cab 608-242-2000
Madison Taxi 608-255-8294
Green Cab 608-255-1234
GENERAL CONFERENCE INFORMATION

Information for Presenters
Copies
If you plan to hand out paper copies during your presentation, you are responsible for copying and providing them at the Conference. There are NO Conference-sponsored copy machines for your use at The Pyle Center or The Lowell Center. You are welcome to pay The Pyle Center or The Lowell Center directly if you have their administrative office make copies at $0.10 per copy.

Session Rooms
All session rooms will be equipped with an LCD video projector, PC/Mac computer with DVD drive, USB hub, Internet connection, audio for the computer, a projection screen, wireless lavaliere microphone, wireless mouse and slide advancer, laser pointer, podium and a microphone. You are welcome to bring your own laptop and connect with the session room LCD video projector. The conference center will be providing one computer in each presentation room with the following software:

Windows 7: Office 2010, IE 10, Firefox, Chrome, Acrobat Reader XI, iTunes 11, QuickTime 7.7.5, Media Site Desktop Recorder 1.4.520, Camtasia Relay 4.3.1, VLC 2.0.6, Jabber 4.6
Mac OS X 10.8.4: Office 2011, Firefox, Chrome, Safari 6.0.5, iTunes 11, Jabber 4.6, VLC 2.0.5

If you need assistance during a presentation, use the house phone located in the session room to call the Audio Visual Technicians at The Pyle Center to assist you. You may also request assistance from the volunteers wearing the red IMPS Volunteer T-shirts.

Speaker and Presenter Testing and Practice Room
Speakers may test their presentations using one of The Pyle Center computer systems between 7:30am-5:00pm in Room 317. A PC/Mac with an LCD video projector will be available for your use Monday-Friday to test and practice your presentation. First come, first served. A sign-up sheet for a practice time slot is available on the door.

Poster Session
Presenters will put up posters on Thursday, July 24, from 3:15-4:30pm and authors must stand with their poster from 4:30-6:30pm.

Posters should be removed by authors following the session by 7:00pm. Any posters not removed after the session will be kept at the Conference Registration & Information Desk until Friday, July 25 at 4:30pm and then will be recycled.

Session Chair/Moderator & Volunteers Training
Tuesday, July 22: 8:00–8:15am
Dining Room, The Lowell Center
If you have volunteered to moderate a session, or are a chairperson of a session, please attend a short training to learn about your responsibility and how to troubleshoot the audio visual equipment. You will be running the sessions, so understanding the equipment and how the sessions will flow consistently between all sessions and rooms will help ease your mind. This is also an opportunity for the conference organizers to discuss their vision of the flow for the presentations.

Conference Meals & Receptions
The conference will be providing morning and afternoon beverage service during the session breaks, and a buffet lunch will be served at The Pyle Center over the lunch hour. Wednesday and Thursday nights will feature reception foods showcasing local Wisconsin fare. On Friday, an elegant banquet on the Monona Terrace rooftop will tantalize and entertain you with one of the best views in Madison, WI. See your Conference Schedule for specific times and locations. Water and cups are provided in coolers located in each session room. Water fountains are also available throughout the Pyle Center. We encourage you to reuse your water bottle to conserve resources and to help us cut costs to keep the conference registration fee reasonably priced.

Luggage Storage on your Departure Day
Attendees who check out of their hotel rooms in the morning are encouraged to store their luggage at their hotel front desk. Those checking out of the Sellery Hall dorm rooms on Friday can bring their luggage to store at the Conference Registration and Information Desk until Friday at 5:00pm.

Conference Message Board
The Conference Message Board is located near the Registration and Information Desk on Level 3. Feel free to post job vacancies, messages for colleagues, announcements, or other items of interest.

Reservable Small Group Meeting Space
A small board room has been reserved for unexpected meetings when you would like to take advantage of having your colleagues in one place and to meet face-to-face. The Pyle Center’s Room 320 is available Tuesday through Friday on a first come/first served basis with a sign-up sheet posted outside the room in 30 minute increments. We encourage you to take advantage of the unique opportunity of gathering together.
The Pyle Center and The Lowell Center Disability Access
The Pyle Center and The Lowell Center are fully accessible. If you require a specific accommodation, please visit the Registration & Information Desk.

Conference Attire
Business casual attire is suggested for the Conference. We recommend bringing a sweater or jacket to the Conference, which is kept quite cool inside the building. Madison is a walking city, so we highly recommend bringing comfortable walking shoes, layers and an umbrella. The night of the banquet on the rooftop, depending on the weather, can become chilly after the sun sets. Bring a jacket or a sweater for your comfort.

Photography Disclosure
Portions of this event may be videotaped and photographed by the Conference and/or the media. By attending this Conference, you accept the possibility that you may be videotaped or photographed.

Promptly at 11:20am on July 23, a Conference-sponsored group photo will be taken. Please meet on the rooftop of The Pyle Center. To access the rooftop, take the stairs or elevator near room 325/326.

The Pyle Center & The Lowell Center Wireless Internet Access
Wireless Internet Options at UW-Extension Conference Centers
1. Enable your connection to the UWNet wireless network. Open your web browser. You will see two login screens: “Log in with NetID” and “Request Guest Access.”

2. If you are visiting The Pyle Center and The Lowell Center, you can use the “Request Guest Access.” Complete the fields with your full name, email address and the reason for your visit. Make sure you use the drop-down box for “Reason for Visiting.” You will have to re-login every day.

3. If you have a UW-Madison campus NetID already, you can login with the “Log In with your NetID.” You will not have to re-login in some campus buildings.

If you have any problems logging in, you may contact the DoIT Help Desk at 608-264-HELP (4357) or help@doit.wisc.edu

Internet Kiosk Computers
Free Internet Kiosk computers are located on each floor of The Pyle Center and in the main lobby of The Lowell Center. Guests of the IMPS 2014 conference are welcome to use these computers for items such as checking email and looking up flight information.

Smoking Policy
Smoking is not allowed inside The Pyle Center, The Lowell Center, or any other buildings in the City of Madison.

Local Taxi Services
Badger Cab 608-256-5566
Union Cab 608-242-2000
Madison Taxi 608-255-8294
Green Cab 608-255-1234

Lost and Found
Items found during the Conference may be turned in at the Registration and Information Desk, Level 3. You may retrieve lost items from one of the following places: the Registration and Information Desk, Level 3, or The Pyle Center or The Lowell Center Greeter Desks in the main lobbies, Level 1. Any lost and found items left after the conference will be left at The Pyle Center or The Lowell Center front desks. If unclaimed, items will be donated to charity after 3 months.

Automated Teller Machines (ATMs)
There are several banks along the Capitol Square and State Street with accessible ATMs. Additional ATMs are located in the Memorial Union, UW Credit Union on State Street, inside Walgreens on the corner of Lake and State Street, and at US Bank at East Campus Mall.

Currency Exchange
U.S. Bank
1 South Pinckney Street 608-252-4000
(on the Capitol Square)

Chase Bank
22 East Mifflin Street 608-282-6020
(on the Capitol Square)

Check Cashing for International Visitors
Checks drawn on U.S. banks may only be cashed at the bank (or a branch of the bank) on which the check was drawn. You will need your passport for identification.

United States Post Office
411 Lake Street (One block from The Pyle Center) 608-251-6949
Monday - Friday 8:00am-5:00pm, Saturday 9:30am-4:00pm
Pharmacies
Community Pharmacy
341 State Street (entrance on Gorham Street around corner from State Street)
Community Pharmacy sells conventional and alternative health products and provides full prescription services. Locally owned and operated.
http://communitypharmacy.coop/
Prescription line 608-251-4454
Non-prescription line 608-251-3242

Walgreens, East Campus Mall
311 East Campus Mall (Across the street from Sellery Residence Hall)
605-251-0042

Emergencies
For local Fire, Police and Rescue/Ambulance call 9-1-1

Local Immediate Care Non-Emergency Clinics
Group Health Capitol Clinic Urgent Care
675 West Washington Avenue 608-257-9700
(at Regent Street)

Dean Urgent Care
752 North High Point Road 608-250-1525
1821 South Stoughton Road 608-250-1525

UW Health Immediate Care
7102 Mineral Point Road 608-828-7603
4122 East Towne Boulevard 608-242-6855

Local Hospitals
Meriter Hospital
202 South Park Street
General 608-417-6000
24 Hour Emergency 608-417-6206

St. Mary’s Hospital Medical Center
700 South Part Street
General 608-251-6100
24 Hour Emergency 608-258-6800

UW Hospital and Clinics (On Campus)
600 Highland Avenue
General 608-263-6400
24 Hour Emergency 608-262-2398

Bicycle Rentals
Madison B-Cycle
Madison B-Cycle is an urban bike sharing program with over 35 active stations throughout the Madison area. You can sign in and purchase time at any B-Cycle station. Grab your bike and go. You can park your bike at any B-station. There are two B-Cycle stations on Lake Street. One is at the corner of Lake Street and Langdon Street, 633 Langdon Street, and other is at Lake and University Avenue, 381 N. Lake Street.

If you are interested in renting a B-cycle, visit their website for station locations and information at http://madison.bcycle.com.

Machinery Row
Machinery Row Bicycles rents bicycles and gear and is just one short block east of the Monona Terrace along the Lakeshore Path.

For details call 608-442-5974 or visit www.machineryrowbicycles.com/index.php/rentals.

A bike trail rides along Lake Mendota starting at The Pyle Center and riding to Picnic Point. This 1.5 mile ride will bring you to the beautiful Picnic Point Peninsula and nature preserve. You can bike, walk or run along the Lakeshore Path at any time during your visit in Madison!

For additional information about cycling in Madison, visit www.cityofmadison.com/bikeMadison.

Boat Rentals (canoes, kayaks, paddleboards, windsurfers, rowboats, etc...)
Memorial Union Boathouse
Two doors down from The Pyle Center is the Memorial Union Boathouse where you can rent any type of boat to enjoy Lake Mendota up close and personal.

Fees are $16-$18 for the first hour, $12 for each additional hour. Be sure to bring your photo I.D. and your conference name badge for your “guest admission”.

To get to the Boathouse from The Pyle Center, walk towards the Memorial Union along the lakeshore sidewalk, pass the Red Gym and the Memorial Union Terrace and at the concession stand, turn left and enter at the first door on your left. Look for Outdoor UW or Hoofers.

For details, call 608-262-1630 or visit http://www.union.wisc.edu/outdooruw-paddling-rentals.htm.
Exercise, Sport, & Recreational Facilities
Check with your hotel concierge for fitness amenities within your hotel.

University of Wisconsin Recreational Sports Facilities
The University of Wisconsin-Madison campus welcomes Conference visitors to use its recreational facilities. To use the facilities you will need to show a photo I.D., be 18 years of age, and pay a guest fee of $7.00. See the following website for details: http://recsports.wisc.edu/memberservices-other.html

Two facilities are available:

The UW Southeast Recreational Facility (SERF) is located at 715 West Dayton Street, 608-262-8244, and includes a three lane 1/10 mile indoor track, 4 gymnasiums, 10 racquetball courts (courts 1 and 2 are wheelchair accessible), 63 meter pool, weight room, cardio center, fitness training room, group fitness studio and group cycle/spinning class room.

The UW Natatorium (NAT) at 2000 Observatory Drive, 608-262-3742, features a 25 yard 8 lane pool with diving well, 4 gymnasiums, 5 racquetball courts, weight room, cardio center, fitness training room, group cycle room and a Parcourse Fitness Circuit.

Madison and Campus Life
Madison is a city of over 250,000 people situated in the midst of a series of lakes formed by the advance and retreat of ice during the Ice Age. It was chosen as the site of the State Capitol of Wisconsin, as well as of the first and foremost campus of the University of Wisconsin, in part because of its favorable physical setting, which continues to delight visitors.

All IMPS conference events take place on the grounds of the University of Wisconsin close by the shore of Lake Mendota. The Pyle Center, The Lowell Center, the Memorial Union, the Campus Inn, Monona Terrace, and student dormitories are all located within a short distance of one another, so that it is an easy walk between them during session days, as can be seen from the map included in this booklet.

A number of local buses link the various parts of the city. The free “#80” Madison Metro bus stops directly in front of The Pyle Center and travels around the campus perimeter stopping at various points. Hop on and take a ride around campus to see the sites! Information about bus services, as well as about the University of Wisconsin campus and its various attractions, is available through Visitor & Information Programs (VIP), located in the Red Gym, right between the Memorial Union and The Pyle Center.

Farther away, but still within reach of the central campus area by car, bus, or taxi, are Olbrich Botanical Gardens, on the east side of the city, and the Arboretum, on the west side, two places of outstanding horticultural interest that offer pleasant walks. Also not far away is Vilas Zoo, a favorite visiting spot for people of all ages. The Zoo directly adjoins a small beach on Lake Wingra where swimming is available with lifeguard supervision.
Madison and Campus Life (continued)

One favorite local activity is having a cold beer or soda with friends on the lakeside Terrace of Memorial Union, where open-air concerts and movies are often held on summer nights. The Rathskeller offers a variety of good beers in a remarkable interior whose murals, dating from the 1920s, make comic allusions to German university life in the Old World. Another local “must” is sampling the flavors of the premier locally-made ice cream served at the Daily Scoop, in the front lobby of the Student Union. If you want a quiet local walk, you might try heading west from the Student Union, where a pleasant lakeside walking, jogging, and cycling path extends in a broad curve as far as Picnic Point, several miles away.

Close by Library Mall, just south of the University Club, is the Chazen Museum, the University art museum.

For daily special events, music, art shows and other attractions, visit the Local Event Listings Pages at:
www.visitmadison.com and www.thedailypage.com/theguide/

We sincerely hope you have a wonderful visit to Madison, Wisconsin and to the University of Wisconsin-Madison!
COMMITTEES

Local Conference Planning Services Provided by the University of Wisconsin – Extension Conference Planning Services
Patti Thompson
Conference Planning Services Manager

Alex Goke
Graphic Artist

Angela Chopp
Registration Supervisor

Kristina Crapp
Registration Associate

Sarah Moisan-Thomas
Conference Planning Services Associate

Lauren Flood
Conference Planning Services Associate

Tammy Blankenheim
Conference Planning Services Associate

WALKING MAP

The Lowell Center Inn
610 Langdon Street
Madison, WI 53703
(608) 256-2621

Dahlmann Campus Inn
601 Langdon Street
Madison, WI 53703
(608) 257-4391

Sellery Residence Hall
821 W Johnson Street
Madison, WI 53706
(608) 262-1076

DoubleTree Hotel
525 W Johnson Street
Madison, WI 53703
(608) 251-5511

The Pyle Center
702 Langdon Street
Madison, WI 53706
(608) 262-1122

Memorial Union
800 Langdon Street
Madison, WI 53706
(608) 265-3000

Monona Terrace Community & Convention Center
1 John Nolen Drive
Madison, WI 53703
(608) 261-4000

Shuttle Bus Pickup/Dropoff