

# IMPS 2014 Madison Wisconsin

## CONFERENCE PROGRAM



## SPONSORS



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# WELCOME

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 cities."

Enjoy the meeting and your stay in Wisconsin!

Dan Bolt      David Kaplan      Jim Wollack  
Co-Local Organizers for the 2014 IMPS Meeting



In Remembrance of Roger Millsap  
1954 - 2014

# SCHEDULE

## 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*



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*

# SCHEDULE

## Tuesday, July 22 (continued)

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

## Wednesday, July 23

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

# SCHEDULE

## 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)*



Over the Vines Wine Barn and Vineyard

## Thursday, July 24

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

7:30am-4:45pm Registration & Information  
*Room 305, The Pyle Center*

7:30am-5:00pm Speaker Practice Room  
*Room 317, The Pyle Center*

## 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

# SCHEDULE

## 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*
- 11:20am-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*

Monona Terrace  
Community and Convention Center

## KEYNOTES



### ***Advances in Mixture Modeling***

Bengt Muthen, UCLA

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.

### ***Covariate-free and Covariate-based Reliability***

Peter Bentler, UCLA



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.

### ***Three Examples of how Mistreating Missing Data Yields Misguided Educational Policy***

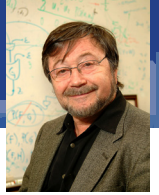
Howard Wainer, National Board of Medical Examiners  
2013 Career Award Recipient



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.

### ***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.



## ***Dynamical Systems Modeling in the Social and Behavioral Sciences***

Sy-Miin Chow, Pennsylvania State University

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.



## ***From Tukey to Statistical Learning: Gaining New Insights from Big Data***

Gitta Lubke, University of Notre Dame

The topic of “big data” has attracted so much attention recently that it makes you wonder whether this is just another hype. Large data sets are, however, a reality, and this presentation focuses on methods designed to explore and analyze large data sets in the absence of knowledge concerning the structural relations between the measured constructs. The emphasis is on gaining new insights rather than on confirmation, similar to the exploratory data analysis methods described by Tukey. The development of statistical learning algorithms has increased the feasibility of exploring extremely large data sets, including data where the number of observed variables is much larger than the number of subjects. The challenge is to integrate psychometric knowledge and methodology in the field of statistical learning.



Sailboats on Lake Mendota

## ***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

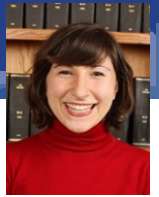
Latent variable modelling is a well established framework within Social Sciences where the variables of interest are constructs, such as attitudes, beliefs, skills, etc. When the latent variables are taken to be continuous there are two approaches to latent variable modelling, the Underlying Variable 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.



## ***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.



## ***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.

## ***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.

# SESSIONS

Breakfast for The Lowell Center Guests - <i>Dining Room, The Lowell Center</i>	6:30-8:30am
Conference Registration Open - <i>Main Lobby, The Pyle Center</i>	7:45am-5:00pm
Speaker Practice Room - <i>Room 317, The Pyle Center</i>	7:45am-5:00pm
Coffee Service	8:00-10:00am
Pre-Conference Workshops - <i>Various Rooms, The Pyle Center</i>	8:30am-5:00pm
Beverage Break	10:00am
Lunch On Your Own	12:00-1:30pm
Graduate Student Luncheon - <i>Lee Lounge, The Pyle Center</i>	12:00-1:30pm
Editorial Council Lunch & Meeting - <i>Room 320, The Pyle Center</i>	12:00-2:00pm
Pre-Conference Workshops Resume - <i>Various Rooms, The Pyle Center</i>	1:30pm
Beverage Break	3:00
Board of Trustees Meeting - <i>Room 320, The Pyle Center</i>	3:00-5:00pm
Dinner On Your Own	5:00pm
Evening Social at Memorial Union - <i>Memorial Union Terrace</i>	7:00pm

## MONDAY, JULY 21

Breakfast for The Lowell Center Guests - <i>Room 118, The Lowell Center</i>	6:30-8:30am
Registration & Information - <i>Lower Lounge, The Lowell Center</i>	7:30-10:30am
Session Chair/ Moderator & Volunteers Training - <i>Dining Room, The Lowell Center</i>	8:00-8:15am
IMPS Continental Breakfast - <i>Dining Room Lobby, The Lowell Center</i>	8:30-9:00am
Welcome & Opening: Conference Chairperson, UW-Madison Dean - <i>Dining Room, The Lowell Center</i>	9:00-9:15am
Keynote: Bengt Muthen - <i>Dining Room, The Lowell Center</i>	9:15-10:15am
Beverage Break - <i>Dining Room Lobby, The Lowell Center</i>	10:15-10:35am
Registration & Information - <i>Main Lobby, The Pyle Center</i>	10:15-5:30pm

## TUESDAY, JULY 22

The Pyle Center	Room 313	Room 309	Room 226		Room 225	Room 213	Room 220	Room 325/326
Concurrent Session A	Symposium: Different Perspectives on Equating using IRT Models Chair: Bjoern Andersson	IRT Model Fit & Aberrant Responding Chair: Holmes Finch	Longitudinal Data Chair: Chun Wang		Reliability Chair: Andrew Maul  Pieter Oosterwijk L Andries vanderArk	Computerized Testing Chair: David Torres Iribarra  Emre Gonulates Bernard Veldkamp David Shin Chanjin Zheng	Missing Data Chair: Bryan Keller  Joost van Ginkel Ashley Lawrence Qian Zhang Irin Moustaki	Scoring Chair: Youngsuk Suh  Diane Losardo Jing Chen Minji Lee Edward Ip Youngkoug Kim
10:35am-12:15pm	Bjoern Andersson Jorge Gonzalez Marie Wiberg Mengyao Zhang Alina von Davier	Seo Young Lee Anne Thissen-Roe Mo Zhang Yanlou Liu	Hsiu-Ting Yu Joseph Betts Ji Hoon Ryoo Chun Wang		Cees Glas Jay Verkuilen Tenko Raykov			
	A1	A2	A3		A4	A5	A6	A7

Lunch - *Alumni Lounge, The Pyle Center* 12:15-1:15pm

## TUESDAY, JULY 22

Madison, Wisconsin, USA

# SESSIONS

The Pyle Center	Room 313	Room 309	Room 226		Room 225	Room 213	Room 220	Room 325/326
Concurrent Session B  1:15 -2:55pm	Symposium: Designing Simulation & Game-Based Assessments Chair: Alina von Davier	Diagnostic Models Chair: Steven Culpepper	Applications Chair: Hailemichael Worku		FMRI and Related Methods Chair: Heungsun Hwang	Mixture Modeling Chair: Tracy Sweet	Latent Variable Models Chair: Carolyn Anderson	Measurement of Learning/Change Chair: Christian Geiser
	Alina von Davier Saad Khan Michelle LaMar Deirdre Kerr	Mark Hansen Youn Seon Lim Chia-Yi Chiu Yunxiao Chen Yeongyu Lim	Daeseok Kim Hanjo Kim Po-Hsi Chen Kazuya Ikehara		Guangjian Zhang Kwanghee Jung Warren Bilker Fei Gu	Robert Hillen Youn-Jeng Choi Sedat Sen Nidhi Kohli	Joachim Vandekerckhove Hyesuk Jang Jacob Bishop Walter Kacetow	Ethan Arenson Gunter Maris Jodi Casabianca Dereje W. Gudicha Josine Verhagen
	B1	B2	B3		B4	B5	B6	B7

Beverage Break - Room 313 & 325/326, The Pyle Center 2:55-3:15pm  
 Invited Talk: Sy-Miin Chow - Room 325/326, The Pyle Center 3:15-4:00pm  
 Invited Talk: Michael Edwards - Room 313, The Pyle Center 3:15-4:00pm

## TUESDAY, JULY 22

The Pyle Center	Room 313	Room 309	Room 226		Room 225	Room 213	Room 220	Room 325/326
Concurrent Session C  4:00 -5:20pm	Symposium: Educational Data Mining: Characterizing Students' Process Data in Scenario-Based Tasks Chair: Mengxiao Zhu	Mediation Chair: Peter Halpin	Scaling and Clustering Chair: Anne Thissen-Roe		IRT Modeling Chair: L. Andries vanderArk	Regression Models and Related Techniques Chair: Joseph Lucke	Cognitive Diagnosis Chair: Jared Harpole	Longitudinal Measurement Chair: Jee-Seon Kim
	Mengxiao Zhu Zhan Shu Jiangang Hao Yoav Bergner	Charlotte Cunningham Kaylee Litson Yuyu Fan Zhiyong Zhang	Willem Heiser Yutaka Nishida Stella Bollmann Ji Yeh Choi		Burhanettin Ozdemir Yang Liu Henk Kelderman Wen-Chung Wang	Yong Luo Marjolein Fokkema Meiling Le	Ning Yan John H. Kim Lou DiBello Susan Embretson	Lijuan Wang Lu Ou Jieun Lee Ruslan Jabrayilov
	C1	C2	C3		C4	C5	C6	C7

Campus Walking Tour - Departing from The Pyle Center Lobby 5:30-7:15pm  
 Dinner and Evening On Your Own 5:30pm

## TUESDAY, JULY 22

Breakfast for The Lowell Center Guests - Dining Room, The Lowell Center 6:30-8:30am  
 Registration & Information - Room 305, The Pyle Center 7:30am-5:00pm  
 Speaker Practice Room - Room 317, The Pyle Center 7:30am-5:00pm

## WEDNESDAY, JULY 23

# SESSIONS

The Pyle Center	Room 313	Room 309	Room 226		Room 225	Room 213	Room 220	Room 325/326
Concurrent Session D  8:30 -10:10am	Symposium: Metrological and Philosophical Considerations in Measurement Chair: Andrew Maul	Computer-based Testing Chair: Bernard Veldkamp	Model Comparison Chair: Carl Falk		Resampling and Simulation Techniques Chair: David Kaplan	Network-Related Methods Chair: Bonne J.H. Zijlstra	Item Location/ Difficulty Studies Chair: Won-chan Lee	DIF Chair: David Magis
	Andrew Maul David Torres Iribarra Luca Mari Mark Wilson	Darrin Grelle Ya-Hui Su Qiwei He	Sara Steegen Joseph F. Lucke Euijin Lim Meereem Kim Annelies Bartlema		Albert Satorra Merijn Mestdagh Todd Christopher Headrick Michael Harwell Ru Lu	Qiwen Zheng Laura Bringmann Tracy Sweet An-Shun Tai Johnny Lin	Dries Debeer Can Shao Eren Halil Ozberk Rebecca Freund Michael Walker	Carolin Strobl Carol Woods Jared K. Harpole Yujin Kang
	D1	D2	D3		D4	D5	D6	D7

Beverage Break - Room 313 & 325/326, The Pyle Center 10:10-10:30am  
 State of the Art Talk: Hao Wu - Room 325/326, The Pyle Center 10:30-11:15am  
 State of the Art Talk: Myrsini Katsikatsou - Room 313, The Pyle Center 10:30-11:15am  
 Group Photo - Rooftop Terrace, The Pyle Center 11:20-11:40am  
 Lunch - Alumni Lounge, The Pyle Center 11:45am-12:45pm

## WEDNESDAY, JULY 23

The Pyle Center	Room 313	Room 309	Room 226		Room 225	Room 213	Room 325/326	Room 220
Concurrent Session E  12:50 -2:30pm	Symposium: Contemporary Issues in Estimating Causal Effects Using Propensity Score Methods Chair: Jee-Seon Kim	Applications Chair: April Galyardt	Structural Equation Modeling Chair: Guangjian Zhang		Longitudinal Data Chair: Lijuan Wang	Model-Based Classification Chair: Jianshen Chen	Multidimensional IRT Chair: Jean-Paul Fox	No Sessions Scheduled
	Jee-Seon Kim Christopher Swoboda Courtney Hall Yongnam Kim Bryan Keller	Eric Loken Yoon Ah Song Inga Schwabe Jiaxuan Du	Edgar Merkle Heungsun Hwang Yiu-Fai Yung Dingjing Shi Jolynn Pek		Christian Geiser Zhenqiu Lu Lawrence L. Lo Brenden Bishop Satoshi Usami	Peter Halpin Maaik M. van Groen Shiyu Wang Yuehmei Chien	Kensuke Okada Carolyn Anderson David Thissen Sakine Gocer Sahin	
	E1	E2	E3		E4	E5	E6	E7

Beverage Break - Dining Room Lobby, The Lowell Center 2:30-2:50pm  
 Keynote: Peter Bentler - Dining Room, The Lowell Center 2:50-3:50pm  
 Keynote: Fritz Drasgow - Dining Room, The Lowell Center 3:50-4:50pm  
 On Your Own 4:50-5:15pm  
 Welcome to Wisconsin Reception 6:15-9:30pm  
 - Over the Vines Vineyard and Wine Barn  
 (see Evening Events for details)

## WEDNESDAY, JULY 23

Breakfast for The Lowell Center Guests - *Dining Room, The Lowell Center* 6:30-8:30am  
 Registration & Information - *Room 305, The Pyle Center* 7:30am-4:45pm  
 Speaker Practice Room - *Room 317, The Pyle Center* 7:30am-5:00pm

## THURSDAY, JULY 24

The Pyle Center	Room 313	Room 309	Room 226		Room 225	Room 213	Room 325/326	Room 220
Concurrent Session F  8:30-10:10am	Symposium: Modeling Response Styles with Multidimensional IRT Approaches Chair: Albert Maydeu-Olivares  Ulf Bockenholt Claus Carstensen Thorsten Meiser Lale Khorramdel	Design and Analysis Issues Chair: Chris Swoboda  Adam Sales Jianshen Chen Ling Ning Han Du	Multilevel and Mixed Models Chair: Stephen France  Jue Wang Ronli Diakow Ji Seung Yang Bonne J.H. Zijlstra Kevin Raczynski		Factor Analysis Models Chair: Jay Verkuilen  Scott Monroe Karl Schweizer Hao Luo Christine DiStefano Megan Kuhfeld	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
	F1	F2	F3		F4	F5	F6	F7

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

## THURSDAY, JULY 24

The Pyle Center	Room 313	Room 309	Room 226		Room 225	Room 213	Room 325/326	Room 220
Concurrent Session G  10:30am-12:10pm	Symposium: The Use of Plausible Values in Predictive Inference Chair: Lynne Steuerle Schofield  Jean-Paul Fox David Kaplan Matthias von Davier Lynne Steuerle Schofield Brian Junker	Analysis of Covariance Structures Chair: Zhiyong Zhang  Haiyan Liu Trevor Park Shaobo Jin Fan Wallentin Hailemichael Metiku Worku	Linking/Equating Chair: Alina von Davier  Yanming Jiang Bradley Smith Wim van der Linden Michelle D. Barrett Zhongmin Cui		Nonparametric IRT Chair: Pieter Oosterwijk  Mario Luzardo Pilar Rodriguez Klaas Sijtsma Renske E. Kuijpers	Response Times/Speed Chair: Ken Fujimoto  Fredrik Coomans Usama Ali Gongjun Xu Artur Pokropek	Differential Item Functioning Chair: Carolin Strobl  Xiangzi Ouyang Michel Philipp Abdullah Alsadaawi Likun Hou	No Sessions Scheduled
	G1	G2	G3		G4	G5	G6	G7

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

## THURSDAY, JULY 24



# SESSIONS

Invited Talk: Gitta Lubke - Room 325/326, The Pyle Center 3:45-4:30pm  
 Invited Talk: Jonathan Templin - Room 313, The Pyle Center 3:45-4:30pm  
 Poster Session & Reception - AT&T & Lee Lounges, The Pyle Center 4:30-6:30pm

## THURSDAY, JULY 24

### The Pyle Center, AT&T Lounge

### The Pyle Center, Lee Lounge

Poster Session & Reception

4:30  
-6:30pm

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

Dinner and Evening On Your Own 6:30pm

## THURSDAY, JULY 24

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	Room 225	Room 213	Room 325/326	Room 220
Concurrent Session H	Symposium: New Directions in Personality Assessment Chair: Susan Embretson	Rasch Modeling Chair: Wen-Chung Wang	Measurement Modeling Chair: Usama Ali	Measurement Invariance Chair: Ed Merkle	IRT and IRT Applications Chair: Claus Carstensen	Diagnosis Applications Chair: Yanyan Sheng	No Sessions Scheduled
8:30 -10:10am	Susan Embretson Jonas P. Bertling Dan Smith Patrick C. Kyllonen Heather Hayes	Clemens Draxler Can Guerer Kuan-Yu Jin Ken Fujimoto	April Galyardt Won-chan Lee Stephen L. France Kotaro Ohashi	Xin Xin Justin L. Kern Ting Wang Pieter Kroonenberg	Katherine Grace Jonas Carl F. Falk Cedric Taverne Xiaouu Li Steven Culpepper	Ehsan Bokhari Heekyoung Kim Chanho Park Wenchao Ma	
	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

## SESSIONS

Lunch - <i>Alumni Lounge, The Pyle Center</i>	11:20am-12:30pm
Registration & Information - <i>Main Lobby, The Lowell Center</i>	12:30-6:00pm
Dissertation Award Address: Hye Won Suk - <i>Dining Room, The Lowell Center</i>	12:45-1:30pm
Presidential Address - <i>Dining Room, The Lowell Center</i>	1:30-2:30pm
Beverage Break - <i>Dining Room Lobby, The Lowell Center</i>	2:30-2:50pm
Keynote: Judea Pearl - <i>Dining Room, The Lowell Center</i>	2:50-3:50pm
Awards Ceremony & IMPS 2015 Introduction - <i>Dining Room, The Lowell Center</i>	3:50-5:00pm
On Your Own	5:00-5:30pm
Closing Reception & Banquet Dinner - <i>Monona Terrace Community and Convention Center,</i> <i>(see Evening Events for details)</i>	6:30-10:00pm

# FRIDAY, JULY 25

Conference Shuttles to Dane County Airport - <i>See Shuttles, Pg. #41</i>	7:00-9:20am
Breakfast for The Lowell Center Guests - <i>Dining Room, The Lowell Center</i>	7:30-9:30am
Dane County Farmers' Market - <i>Wisconsin State Capitol Square</i>	6:00am-2:00pm
Walking Group to Dane County Farmers' Market - <i>Main Lobby, The Lowell Center</i>	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.



Camp Randall Stadium, home of the UW Badgers Football Team

### 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.



The Dang-Its

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.

## EVENING & SPECIAL EVENTS

### 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

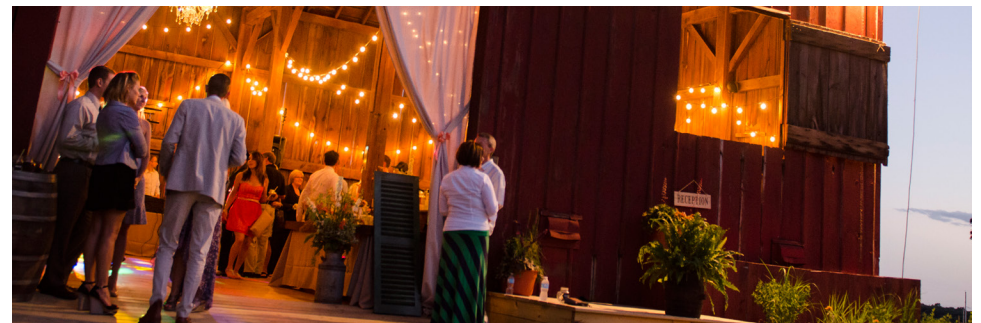
5:00pm	Loading Bus #1 at The Lowell Center and Campus Inn on the corner of Frances and Langdon Streets
5:15pm	Bus #1 with 55 people departs
6:15pm	Bus #1 arrives at Over the Vines Vineyard and Wine Barn
5:15pm	Loading Bus #2 at The Lowell Center and Campus Inn on the corner of Frances and Langdon Streets
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.

### Welcome to Wisconsin Reception (continued)

Shuttle Schedule from Over the Vines Vineyard and Wine Barn from Conference Lodging Facilities

8:30pm	1st return departure to lodging
9:15pm	Drop at The Lowell Center and Campus Inn on the corner of Frances and Langdon Street
9:30pm	Drop at Sellery Residence Hall on Johnson Street
9:45pm	Drop at the DoubleTree Hotel on Johnson Street
8:45pm	2nd return departure to lodging
9:30pm	Drop at The Lowell Center and Campus Inn on the corner of Frances and Langdon Street
9:45pm	Drop at Sellery Residence Hall on Johnson Street
10:00pm	Drop at the DoubleTree Hotel on Johnson Street
9:00pm	3rd return departure to lodging
9:45pm	Drop at The Lowell Center and Campus Inn on the corner of Frances and Langdon Street
10:00pm	Drop at Sellery Residence Hall on Johnson Street
10:15pm	Drop at the DoubleTree Hotel on Johnson Street
9:15pm	4th return departure to lodging
10:00pm	Drop at The Lowell Center and Campus Inn on the corner of Frances and Langdon Street
10:15pm	Drop at Sellery Residence Hall on Johnson Street
10:30pm	Drop at the DoubleTree Hotel on Johnson Street
9:30pm	5th return departure to lodging
10:15pm	Drop at The Lowell Center and Campus Inn on the corner of Frances and Langdon Street
10:30pm	Drop at Sellery Residence Hall on Johnson Street
10:45pm	Drop at the DoubleTree Hotel on Johnson Street



Over the Vines Vineyard and Wine Barn

## 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



Monona Terrace Community & Convention Center

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

Shuttle Schedule from Monona Terrace to Conference Lodging Facilities

9:00pm	1st return departure from Monona Terrace
9:15pm	Drop at The Lowell Center and Campus Inn on the corner of Frances and Langdon Streets
9:25pm	Drop at Sellery Residence Hall on Johnson Street
9:35pm	Drop at the DoubleTree Hotel on Johnson Street
9:50pm	2nd return departure from Monona Terrace
10:10pm	2nd drop at The Lowell Center and Campus Inn on the corner of Frances and Langdon Streets
10:20pm	2nd drop at Sellery Residence Hall on Johnson Street
10:30pm	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 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 – <i>The Pyle Center, Main Lobby</i>
Tuesday, July 22	7:30–10:30am - <i>The Lowell Center, Main Lobby</i> 10:15am-5:30pm - <i>The Pyle Center, Main Lobby</i>
Wednesday, July 23	7:30am-5:00pm - <i>The Pyle Center, Room 305</i>
Thursday, July 24	7:30am-4:45pm - <i>The Pyle Center, Room 305</i>
Friday, July 25	7:30am-1:00pm - <i>The Pyle Center, Room 305</i> 12:30-6:00pm - <i>The Lowell Center, Main Lobby</i>

## 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 – <i>The Pyle Center, Third Floor</i>
Wednesday, July 23	9:30am-1:00pm - <i>The Pyle Center, Third Floor</i>
Thursday, July 24	9:30am-1:30pm - <i>The Pyle Center, Third Floor</i>
Friday, July 25	9:45am-12:45pm - <i>The Pyle Center, Third Floor</i>

## 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 lavalier 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.



# GENERAL CONFERENCE INFORMATION

## 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 Greeters 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

# GENERAL CONFERENCE INFORMATION

## 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](http://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](http://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>.

# GENERAL CONFERENCE INFORMATION

## 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.

## Madison and Campus Life (continued)

Many visitors to Madison enjoy strolling up and down State Street to explore the restaurants, coffee shops, and stores located there. At the east end of State Street, less than one mile (1.4 km) away from Library Square, is Capitol Square, the city’s hub and the center of the downtown business area. The state rooms inside the Capitol building are well worth a visit, and guided tours are available most days of the week. Fronting Capitol Square are several museums, including the State Historical Museum. One block west of the Capitol, occupying a whole city block on State Street, is the Overture Center, a world-class venue for the performing arts as well as the home of the Madison Museum of Contemporary Art. Two blocks beyond the Capitol fronting Lake Monona is Monona Terrace, a major civic and convention center based on Frank Lloyd Wright’s original plans.



Wisconsin State Capitol

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.

## GENERAL CONFERENCE INFORMATION

### 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](http://www.visitmadison.com) and [www.thedaily.com/theguide/](http://www.thedaily.com/theguide/)

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



## COMMITTEES

### IMPS 2014 Local Organizing Committee

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### Psychometric Society Association Management

Brooke Miller, Meeting Planner  
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608-268-4712

### IMPS Program Committee

Albert Maydeu-Olivares (Chair)  
Daniel Bolt  
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Sophia Rabe-Hesketh  
Terry Ackerman  
Luz Bay  
Jeffrey Douglas  
Hong Jiao  
Li Cai  
Chun Wang

### Student Volunteers

Jianshen (Cassie) Chen  
Sien Deng  
Courtney Hall  
Yongnam Kim  
Chansoon (Danielle) Lee  
Sora Lee  
Yen Lee  
Dan Su  
Cory Tracy  
Seo Young Lee

For more information about the Psychometric Society or membership, contact [info@psychometricsociety.org](mailto:info@psychometricsociety.org) or call 608-268-4712.

# 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

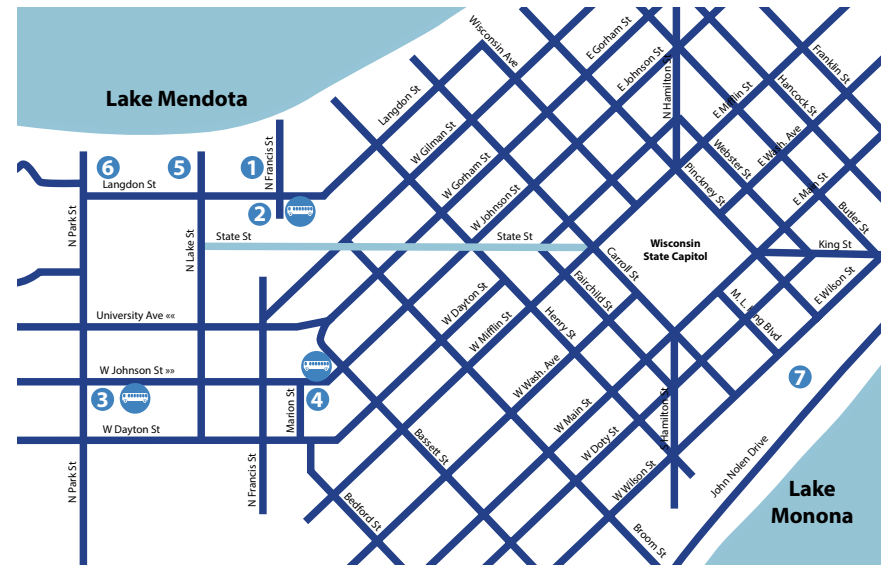
Sarah Moisan-Thomas  
Conference Planning Services Associate

Lauren Flood  
Conference Planning Services Associate

Tammy Blankenheim  
Conference Planning Services Associate

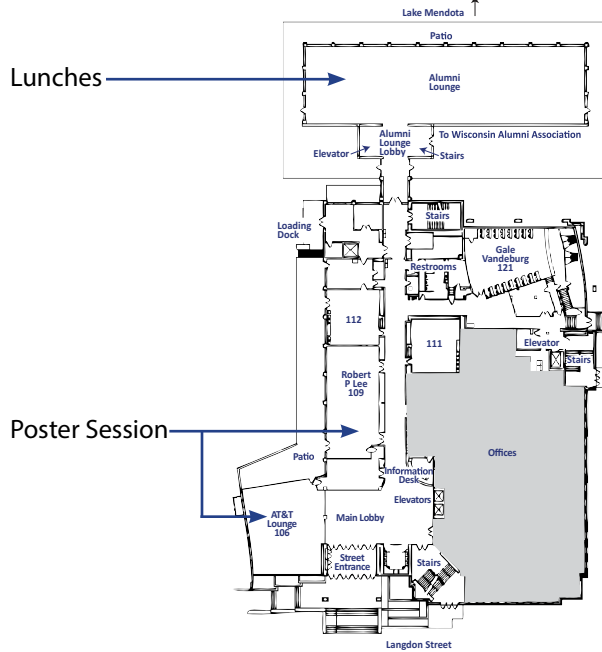
# WALKING MAP

- 1** The Lowell Center Inn  
610 Langdon Street  
Madison, WI 53703  
(608) 256-2621
  - 2** Dahlmann Campus Inn  
601 Langdon Street  
Madison, WI 53703  
(608) 257-4391
  - 3** Sellery Residence Hall  
821 W Johnson Street  
Madison, WI 53706  
(608) 262-1076
  - 4** DoubleTree Hotel  
525 W Johnson Street  
Madison, WI 53703  
(608) 251-5511
  - 5** The Pyle Center  
702 Langdon Street  
Madison, WI 53706  
(608) 262-1122
  - 6** Memorial Union  
800 Langdon Street  
Madison, WI 53706  
(608) 265-3000
  - 7** Monona Terrace Community & Convention Center  
1 John Nolen Drive  
Madison, WI 53703  
(608) 261-4000
-  Shuttle Bus Pickup/Dropoff

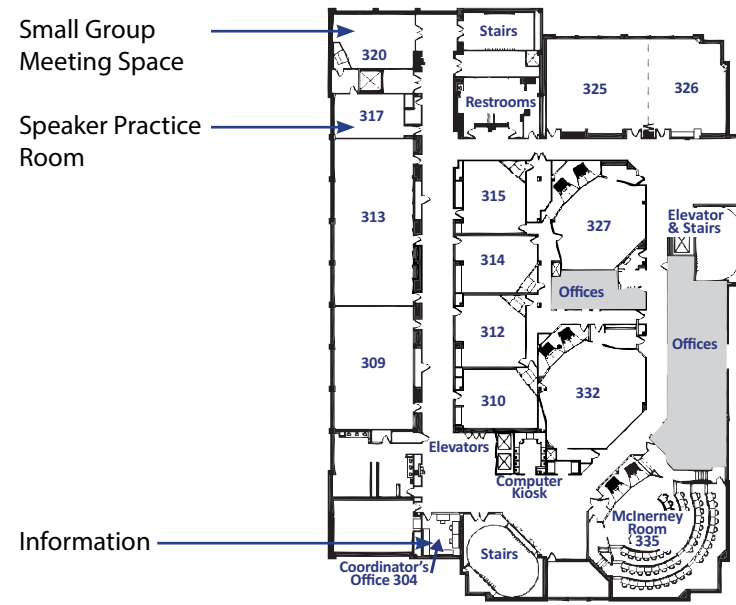


# FLOOR PLANS

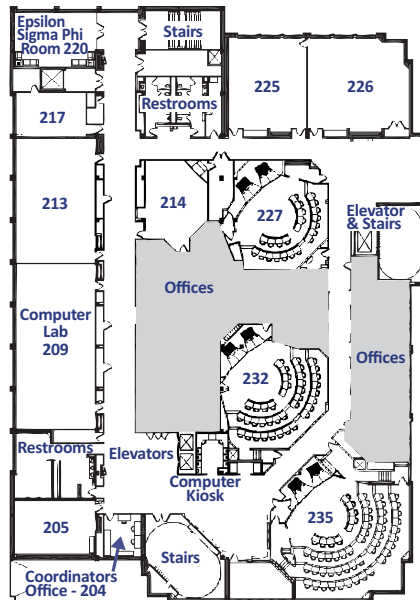
## The Pyle Center, Level 1



## The Pyle Center, Level 3



## The Pyle Center, Level 2



## The Lowell Center, Lower Level

