

## ATTENDEE INFORMATION

First Name \_\_\_\_\_ Middle \_\_\_\_\_ Last Name \_\_\_\_\_ Name as you would like it to appear on your name badge \_\_\_\_\_

APS Member ID \_\_\_\_\_ Affiliation (University or business you are affiliated with) \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_ Postal/Zip Code \_\_\_\_\_ Country \_\_\_\_\_

E-mail Address \_\_\_\_\_ Telephone \_\_\_\_\_ Fax \_\_\_\_\_

*If you have a specific accessibility requirement, please specify here \_\_\_\_\_*

## REGISTRATION INFORMATION

CONVENTION		<i>Current APS membership is required for the APS Member rates.</i>			Member Price	Student Member Price	Non-member	
	<b>Convention</b>				\$320	\$195	\$550	\$
	<b>Teaching Institute</b>				\$225	\$140	\$250	\$
	<b>Convention &amp; Teaching Institute</b>				\$425	\$255	\$725	\$

	Member	Retired	Retired-no journals	Member-Spouse Rate	First-Year PhD	Postdoc	Graduate Student	Undergraduate Student	
<b>APS MEMBERSHIP</b>	\$194	\$109	\$37	\$94	\$109	\$109	\$76	\$37	\$

For information about APS Membership visit [www.psychologicalscience.org/join](http://www.psychologicalscience.org/join), or call +1 202.293.9300

<b>WORKSHOPS</b> (please check the boxes of the events you plan to attend) All workshops take place on Thursday, May 24, 2012 Please see the next page for additional workshop information.	Member Price	Student Price	
<input type="checkbox"/> <b>Integrating Qualitative and Quantitative Methods: Mixed Methods Designs for Psychological Research*</b> (9:00 AM-10:50 AM)	\$55	\$30	\$
<input type="checkbox"/> <b>Introduction to R Statistical System*</b> (9:00 AM-10:50 AM)	\$55	\$30	\$
<input type="checkbox"/> <b>Treating Couples Struggling With Infidelity: An Integrative Approach</b> (9:00 AM-11:50 AM); CE Program - 3 Credits	\$55	\$30	\$
<input type="checkbox"/> <b>Introduction to Structural Equation Modeling*</b> (9:00 AM-12:50 PM)	\$55	\$30	\$
<input type="checkbox"/> <b>Estimation for Better Research: Effect Sizes, Confidence Intervals, and Meta-analysis*</b> (9:00 AM-12:50 PM)	\$55	\$30	\$
<input type="checkbox"/> <b>Studying Emotions in the Laboratory</b> (11:00 AM-12:50 PM)	\$55	\$30	\$
<input type="checkbox"/> <b>Randomization Tests for Single-Case Experiments Using R*</b> (11:30 AM-3:20 PM)	\$55	\$30	\$
<input type="checkbox"/> <b>Integrative Data Analysis: Applications Across Different Data Types</b> (1:30 PM-5:20 PM)	\$55	\$30	\$
<input type="checkbox"/> <b>Introduction to Multilevel Modeling*</b> (1:30 PM-5:20 PM)	\$55	\$30	\$
<input type="checkbox"/> <b>Doing Bayesian Data Analysis*</b> (2:00 PM-4:50 PM)	\$55	\$30	\$
<input type="checkbox"/> <b>Introduction to Structural Modeling Using OpenMx</b> (2:00 PM-5:50 PM)	\$55	\$30	\$
<b>Total Fees</b>			<b>\$</b>

\*Co-sponsored by the Association for Psychological Science (APS) and the Society of Multivariate Experimental Psychology (SMEP).

## FREE SPECIAL EVENTS (Thursday, May 24, 2012)

- Workshop - Federal Funding for Basic Psychological Science** (10:30 AM-12:20 PM)
- Clinical Science Forum** (1:30 PM-4:50 PM)

## PAYMENT INFORMATION

- Visa       MasterCard       American Express

Credit Card No. \_\_\_\_\_ Expiration Date \_\_\_\_\_ Security Code-CCV \_\_\_\_\_

- Check/Money Order (payable to APS, U.S. Funds, drawn from a U.S. bank)

Name as it appears on credit card \_\_\_\_\_

Signature \_\_\_\_\_

Checks that are returned by the bank as "uncollected" will be charged a non-refundable processing fee of \$40.

All requests for registration refunds must be submitted on or before Monday, April 16, 2012. All refunds will be charged a \$40 processing fee.

**Send form to:**  
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**Questions?** Call +1 202.293.9300 or e-mail [convention@psychologicalscience.org](mailto:convention@psychologicalscience.org)

## WORKSHOP INFORMATION All workshops take place on Thursday, May 24, 2012

### **Integrating Qualitative and Quantitative Methods: Mixed Methods Designs for Psychological Research\***

(9:00 AM-10:50 AM) Rebecca Campbell, *Michigan State University*

Mixed methods research designs are often celebrated as having the best of both worlds—quantitative numerical findings as well as qualitative contextual detail. However, planning, implementing, analyzing, and presenting mixed methods projects can be challenging. This workshop will break down this complex process into a series of decision trees researchers can use to create mixed methods studies. This workshop will provide an overview of the key epistemological and methodological debates in the mixed methods literatures. Then, we will focus on specific mixed methods designs and their utility across different types of psychological research. Participants will work on developing a feasible mixed methods design for a research topic in their own substantive areas.

### **Introduction to R Statistical System\*** (9:00 AM-10:50 AM) William Revelle, *Northwestern University*

R is an integrated suite of software facilities for data manipulation, calculation, and graphical display that is particularly useful for psychological scientists. This workshop will assume no prior knowledge of R and will emphasize standard functions for analysis and display of experimental and correlational data for classroom and research.

### **Treating Couples Struggling With Infidelity: An Integrative Approach** (9:00 AM- 11:50 AM) Douglas K. Snyder, *Texas A&M University*

This workshop will describe an integrative approach to working with couples struggling to recover from infidelity. Participants will acquire skills for assessing couples recovering from an affair, contain the emotional turmoil following discovery of an affair, formulate a model articulating factors contributing to an affair, and assist couples in reaching an informed decision about how to move forward.

Note: This workshop offers 3 Credits as part of the CE Program at the APS Annual Convention. See website for more information.

### **Introduction to Structural Equation Modeling\*** (9:00 AM-12:50 PM) Gregory R. Hancock, *University of Maryland*

This workshop will introduce the use of the OpenMx Structural Equation Modeling (SEM) package. The workshop will begin with a very brief introduction to the calculation of the covariances of linear combinations and the notions of path analysis. Next will be an introduction to specifying structural models in OpenMx. In contrast to traditional SEM modeling software, OpenMx uses a functional approach to model specification.

Next, we will specify and fit a wide variety of models that will include multiple and multivariate regression, confirmatory factor models, latent growth curves, latent differential equations, moderation models, and multigroup models.

The workshop will be hands-on. It will be assumed that participants that participants are at least somewhat familiar with R and know the basics of SEM. Please bring a laptop with the latest versions of R, "psych", and "OpenMx" packages installed. OpenMx can be installed for free from the OpenMx website <http://openmx.psyc.virginia.edu>.

### **Estimation for Better Research: Effect Sizes, Confidence Intervals, and Meta-analysis\*** (9:00 AM-12:50 PM) Geoff Cumming, *La Trobe University, Australia*

The APA Publication Manual states "wherever possible, base discussion and interpretation of results on point and interval estimates." This workshop will explain why an estimation approach is better than null hypothesis significance testing, and describe how to calculate and interpret effect sizes and confidence intervals for a range of measures and designs.

It will also introduce meta-analysis, and the use of precision for research planning. The emphasis will be on understanding, and practical strategies. Much use will be made of the interactive simulations of ESCI (Exploratory Software for Confidence Intervals). There is more information about ESCI, and the book that includes the material in the workshop, at: [www.thenewstatistics.com](http://www.thenewstatistics.com)

### **Studying Emotions in the Laboratory** (11:00 AM-12:50 PM) Iris Mauss, *University of California, Berkeley*

This workshop will provide a brief and practical introduction to studying emotion in the laboratory. Studying emotion in the lab requires two things. First, one needs to be able to evoke emotions in laboratory settings. We will cover various approaches to doing so, including pictures, film clips, and naturalistic interactions, with a focus on advantages and disadvantages of each one. Second, one needs to be able to measure participants' emotional responses. We will cover three common approaches to measuring emotion: experience, facial behavior, and autonomic physiology. Discussion will focus on advantages and disadvantages of each one as well as their relationship to one another. Participants should emerge from the workshop with the ability to design rigorous laboratory studies involving emotion.

### **Randomization Tests for Single-Case Experiments Using R\*** (11:30 AM-3:20 PM) Patrick Onghena, *Katholieke Universiteit Leuven, Belgium*

In this workshop, participants will be introduced to the SCRT-R (Single Case Randomization Tests, the R version) package. Some theoretical background regarding randomization tests will be provided, together with exercises and hands-on experience using the package. Participants will be shown how to perform a visual analysis (making a graphical representation of the single-case data; plotting a measure of central tendency; displaying information about variability in the data; and visualizing trends), how to calculate randomization test p-values, how to include effect size measures in their analyses (Standardized Mean Difference, Percentage of Nonoverlapping Data, and Percentage of Data points Exceeding the Median), and how to perform a meta-analysis of replicated single-case experiments. The focus of this workshop will be on behavioral applications and on understanding the results of statistical analyses rather than on the mathematical or algorithmic background of the techniques presented.

### **Integrative Data Analysis: Applications Across Different Data Types**

(1:30 PM-5:20 PM) Richard P. Moser, *National Cancer Institute*, Patrick J. Curran, *University of North Carolina at Chapel Hill*, Michael Larsen, *The George Washington University*, Daniel Bauer, *University of North Carolina at Chapel Hill*, Sierra Bainter, *University of North Carolina at Chapel Hill*

Integrative data analysis (IDA) is a general term for a set of analytic techniques derived from combining or linking independent data sets together and analyzing them as a complete set. This is different from meta-analysis in the sense that one analyzes the actual data in IDA, not the statistical summaries of those data. IDA is a cost-effective way to do science and has the potential to move areas of science forward rapidly by building a cumulative knowledge base. It is an extremely topical issue given the unprecedented access to data that is now afforded to all researchers through cyberinfrastructure (i.e., internet-based research environments), and a push from the Federal government to make data more accessible.

This four-hour workshop will provide a general overview of the pertinent issues involved with IDA, demonstrate three applied guided examples utilizing different types of data, and discuss Federal funding opportunities to support IDA methodology. Statistical code and related output will be provided to workshop participants so that they can follow along with each example.

Workshop Objectives:

- 1) Learn about the conceptual and analytic issues involved with integrative data analysis
- 2) Observe applied guided examples of the types of integrative data analyses that can be done
- 3) Apply techniques learned to a prescribed dataset during a workshop

### **Introduction to Multilevel Modeling\*** (1:30 PM-5:20 PM) Elizabeth Page-Gould, *University of Toronto, Scarborough, Canada*

Multilevel modeling is an analysis known by many names: Hierarchical Linear Modeling (HLM), nested growth curves, and random effects models, just to name the most common monikers. Truly, multilevel models represent a class of techniques used to analyze datasets where cases are not independent (e.g., romantic couples, primates within colonies, longitudinal designs). This workshop will give you a practical introduction to the theory, implementation, interpretation, and reporting of multilevel models. Page-Gould will demonstrate some important extensions that are commonly employed by psychologists: simple effects testing, mediation, and calculation of effect size in multilevel models. You will also receive syntax files for conducting multilevel modeling in two common statistical packages: SPSS and R (you only need to be familiar with one of these packages). You will emerge from the workshop with the ability to apply multilevel modeling to your research questions in a rigorous manner.

### **Doing Bayesian Data Analysis\*** (2:00 PM-4:50 PM) John K. Kruschke, *Indiana University, Bloomington*

The workshop explains why it's embarrassing to report p values in research, then introduces concepts of Bayesian data analysis, modern computer methods, and the benefits of Bayesian analysis. Applications to multiple regression and ANOVA are covered, with complete computer programs.

### **Introduction to Structural Modeling Using OpenMx** (2:00 PM-5:50 PM) Steven Boker, *University of Virginia*, Michael Neale, *Virginia Commonwealth University*

This workshop will introduce the use of the OpenMx Structural Equation Modeling (SEM) package. The workshop will begin with a very brief introduction to the calculation of the covariances of linear combinations and the notions of path analysis. Next will be an introduction to specifying structural models in OpenMx. In contrast to traditional SEM modeling software, OpenMx uses a functional approach to model specification.

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