

**THURSDAY AUGUST 12****Committee/Business Meetings & Other Activities**

7:00 am–10:30 am TCC-600 Level  
**Cyber Café and Message Center**

7:00 am–10:30 am TCC-702  
**Speaker Work Room**

7:00 am–10:30 am FRY- Prince Edward Island  
**Speaker Work Room**

7:30 am–10:30 am TCC-600 Level  
**ASA Membership Booth (Reg Area)**

7:30 am–10:30 am TCC-600 Level  
**JSM Main Registration**

7:30 am–10:30 am TCC-600 Level  
**Special Assistance Desk**

7:30 am–10:30 am TCC-600 Level  
**Press Desk**

7:30 am–10:30 am TCC-Entrance of South Building  
**Guest Services Desk**

8:00 am–10:00 am FRY-Ontario  
**Council of Sections Response Meeting (closed)**  
*Chair(s): Thomas J. Santner, Ohio State University*

8:00 am–10:00 am TCC-Exhibit Hall F  
**Career Placement Service**

8:00 am–10:30 am  
**Careers in Statistics Booth**

8:00 am–10:30 am TCC-600 Level  
**ASA Marketplace**

8:00 am–10:30 am TCC-600 Level  
**ASA Council of Sections/Council of Chapters Booth**

10:00 am–11:00 am FRY-Ontario  
**Council of Sections Debriefing Meeting (closed)**  
*Chair(s): Thomas J. Santner, Ohio State University*

**Invited Sessions 8:30 am–10:20 am**

391 TCC-801 B  
▲ **The Future of Methods and Software for Analyzing Complex Samples – Invited**

**Section on Survey Research Methods, Section on Government Statistics, Section on Statistical Computing, Social Statistics Section, Business and Economics Statistics Section, Section on Statistical Graphics, SSC**

*Organizer(s): Lisa M. LaVange, Inspire Pharmaceuticals, Inc.*

*Chair(s): Lisa M. LaVange, Inspire Pharmaceuticals, Inc.*

8:35 am Development of Statistical Methods to Analyze Complex Health Surveys for Epidemiologic Studies: Some New Methods and Applications — ♦ Barry I. Graubard, National Cancer Institute; Thomas R. Fears, National Cancer Institute; Steven B. Cohen, Agency for Healthcare Research and Quality; Lester R. Curtin, Centers for Disease Control and Prevention

9:00 am Design-based Methods for Survey Data: Alternative Uses of Estimating Functions — ♦ David A. Binder, Statistics Canada; Milorad S. Kovacevic, Statistics Canada; Georgia R. Roberts, Statistics Canada

9:25 am Sample Survey Methods and Software for Non-survey Data Applications — ♦ Gary G. Koch, University of North Carolina, Chapel Hill; Lisa M. LaVange, Inspire Pharmaceuticals, Inc.

9:50 am Disc: Babubhai V. Shah, SAFAL Institute Inc.

10:10 am Floor Discussion

392 TCC-701 A  
▲ **Aberration Detection Methods for Public Health Surveillance Systems – Invited**

**Section on Government Statistics, Section on Statistical Graphics, Social Statistics Section**

*Organizer(s): William W. Thompson, Centers for Disease Control and Prevention*

*Chair(s): G. David Williamson, Centers for Disease Control and Prevention*

8:35 am Syndromic Surveillance for Post-vaccination Adverse Events Using SPRT: A Retrospective Analysis — ♦ Margaret S. Kolczak, Centers for Disease Control and Prevention; Robert Davis, University of Washington; Edwin Lewis, Kaiser Permanente of Northern California; Michael J. Goodman, HealthPartners Research Foundation; Richard Platt, Harvard Medical School and Harvard Pilgrim Healthcare; Robert T. Chen, Centers for Disease Control and Prevention; David Shay, Centers for Disease Control and Prevention

9:00 am Using Simulation Methods to Assess the Validity of Aberration Detection Methods for Public Health Surveillance of Bioterrorism-associated Events — ♦ Lori Hutwagner, Centers for Disease Control and Prevention; Timothy Browne, Centers for Disease Control and Prevention; Howard Burkom, Johns Hopkins University; Matthew Seeman, Centers for Disease Control and Prevention

# GENERAL PROGRAM SCHEDULE

- 9:25 am** Influenza Aberration Detection Models for Eight Large Cities in the United States — ♦ William W. Thompson, Centers for Disease Control and Prevention; Eric Weintraub, Centers for Disease Control and Prevention; David Shay, Centers for Disease Control and Prevention; Lynnette Brammer, Centers for Disease Control and Prevention; Nancy Cox, Centers for Disease Control and Prevention; Keiji Fukuda, Centers for Disease Control and Prevention
- 9:50 am** Performance Assessment for Biosurveillance Alerting Algorithms — ♦ Howard Burkom, Johns Hopkins University
- 10:15 am** Floor Discussion

## 393 TCC-801 A

### Dynamic Survival Models – Invited ENAR, Section on Statistics in Epidemiology, WNAR

Organizer(s): Jason Fine, University of Wisconsin, Madison

Chair(s): Jason Fine, University of Wisconsin, Madison

- 8:35 am** Model Selection for Dynamic Survival Analysis — ♦ Ian W. McKeague, Florida State University
- 9:00 am** Survival Models with Multiple Time Scales — ♦ Thomas Scheike, University of Copenhagen
- 9:25 am** Functional Association Models for Multivariate Survival Processes — ♦ Jun Yan, University of Iowa; Jason Fine, University of Wisconsin, Madison
- 9:50 am** Disc: David Oakes, University of Rochester
- 10:10 am** Floor Discussion

## 394 TCC-712

### Approaches in the Design and Analysis of Pharmacogenomics and Pharmacogenetics Studies – Invited

#### Biopharmaceutical Section, Section on Physical and Engineering Sciences

Organizer(s): Sue Jane Wang, U.S. Food and Drug Administration; Ralph L. Kodell, U.S. Food and Drug Administration

Chair(s): Sue Jane Wang, U.S. Food and Drug Administration

- 8:35 am** Effectively Developing and Evaluating Medical Diagnostics Based on Whole Genome Technologies — ♦ Richard Simon, National Institutes of Health
- 9:05 am** Design and Analysis Issues in Pharmaco-genetics/-genomics Studies — ♦ John S. Witte, University of California, San Francisco
- 9:35 am** A Multiple-testing Strategy for Analyzing cDNA Array Data on Gene Expression — ♦ Ralph L. Kodell, U.S. Food and Drug Administration; Robert R. Delongchamp, U.S. Food and Drug Administration; John F. Bowyer, U.S. Food and Drug Administration; James J. Chen, National Center for Toxicological Research
- 10:05 am** Floor Discussion

## 395 TCC-716 B

### Recent Statistical Issues in Cancer Research – Invited

#### International Indian Statistical Association

Organizer(s): Bhramar Mukherjee, University of Florida

Chair(s): Debashis Ghosh, University of Michigan

- 8:35 am** The Value of Long-term Follow-up: Lessons from the National Wilms Tumor Study — ♦ Norman E. Breslow, University of Washington
- 9:00 am** On the Use of Biomarkers for Carcinogen Risk Assessment — ♦ Louise M. Ryan, Harvard School of Public Health ; Sally W. Thurston, University of Rochester; Wenzheng Huang, Millennium Operations
- 9:25 am** Models and Uses of Absolute Risk in Guiding Clinical Management — ♦ Mitchell H. Gail, National Cancer Institute
- 9:50 am** Genetic Association Studies Using Haplotypes — ♦ Glen Satten, Centers for Disease Control and Prevention; Michael P. Epstein, Emory University; Andrew S. Allen, Duke University
- 10:15 am** Floor Discussion

## Invited Panels 8:30 am - 10:20 am

## 396 TCC-716 A

### CAUSEweb: A Digital Library for Statistics Instructors – Invited

#### Section on Statistical Education, Section on Quality and Productivity, Advisory Cmte on Teacher Enhancement

Organizer(s): Dennis K. Pearl, The Ohio State University

Chair(s): Dexter C. Whittinghill, Rowan University

- Panelists:** ♦ Dennis K. Pearl, The Ohio State University  
♦ Roger Woodard, North Carolina State University  
♦ Gerard L. Hanley, California State University  
♦ Ginger H. Rowell, Middle Tennessee State University

**10:15 am** Floor Discussion

## Topic-Contributed Sessions 8:30 am–10:20 am

## 397 TCC-714 B

### Bayesian Methods in Health Service Research – Topic-contributed

#### Section on Bayesian Statistical Science, Section on Health Policy Statistics

Organizer(s): Zhen Chen, University of Pennsylvania

Chair(s): Iain Pardoe, University of Oregon

- 8:35 am** The Role of Information in Medical Markets: An Analysis of Publicly Reported Outcomes in Cardiac Surgery — ♦ Mary Beth Landrum, Harvard Medical School
- 8:55 am** Analysis of Incomplete HRQoL Data in the REMATCH Trial — ♦ Huiling Li, Columbia University; Daniel F. Heitjan, University of Pennsylvania
- 9:15 am** Bayesian Factor Analysis for Multilevel Survey Data with Structured Nonresponse — ♦ Alistair J. O'Malley, Harvard Medical School; Alan Zaslavsky, Harvard Medical School
- 9:35 am** Bayesian Estimation of the Costs of Optimal Allocation of a Surgical Procedure — ♦ Marshall M. Joffe, University of Pennsylvania; Michael R. Elliott, University of Pennsylvania School of Medicine
- 9:55 am** Modeling Count Data in Healthcare Utilization with Endogeneity — ♦ Zhen Chen, University of Pennsylvania
- 10:15 am** Floor Discussion

**398** **TCC-717 B**  
**▲ Spatial Statistics for Geophysical and Environmental Process – Topic-contributed**  
**Section on Statistics and the Environment**

*Organizer(s): Doug Nychka, National Center for Atmospheric Research; Stephan R. Sain, University of Colorado, Denver*  
*Chair(s): Doug Nychka, National Center for Atmospheric Research*

- 8:35 am** Multiresponse Smoothing and Spatial Models –  
 ◆ Stephan R. Sain, University of Colorado, Denver
- 8:55 am** Winds from Parallel Bayesian Hierarchical Models: Introducing the Gibbs Coupler – ◆ Timothy Hoar, National Center for Atmospheric Research; Doug Nychka, National Center for Atmospheric Research; Ralph F. Milliff, Colorado Research Associates
- 9:15 am** Spatial Hierarchical Bayes Model for AOGCM Climate Projections – ◆ Reinhard Furrer, University Corporation for Atmospheric Research; Stephan R. Sain, University of Colorado, Denver; Tom M.L. Wigley, University Corporation for Atmospheric Research; Doug Nychka, National Center for Atmospheric Research
- 9:35 am** Spatial Precipitation Extremes – ◆ Ulrike Schneider, University Corporation for Atmospheric Research
- 9:55 am** Robust Prediction for Contaminated Random Field – ◆ Baptiste Fournier, Swiss Federal Institute of Technology
- 10:15 am** Floor Discussion

**399** **TCC-715 A**  
**▲ Nonresponse Issues in Panel Surveys – Topic-contributed**

**Section on Survey Research Methods, Social Statistics Section, Section on Government Statistics**

*Organizer(s): Kennon R. Copeland, Bureau of Labor Statistics*  
*Chair(s): Robert Santos, NuStats Partners*

- 8:35 am** Response Rates and Nonresponse in BLS and Census Bureau Establishment Surveys – ◆ Rita J. Petroni, U.S. Census Bureau; Stephen Cohen, Bureau of Labor Statistics; Richard Sigman, U.S. Census Bureau; Clyde Tucker, Bureau of Labor Statistics; Diane Willimack, U.S. Census Bureau; Howard Hogan, U.S. Census Bureau
- 8:55 am** A Pattern-mixture Model for Panel Nonresponse in the Current Employment Statistics Survey – ◆ Kennon R. Copeland, Bureau of Labor Statistics
- 9:15 am** Modeling of Survey Response Rates and Reporting Rates in the U.S. Consumer Expenditure Interview – ◆ Moon Jung Cho, Bureau of Labor Statistics; John L. Eltinge, Bureau of Labor Statistics
- 9:35 am** Characteristics of Survey Attrition in the Household Component of the Medical Expenditure Panel Survey – ◆ David Kashihara, Agency for Healthcare Research and Quality; Trena M. Ezzati-Rice, Agency for Healthcare Research and Quality
- 9:55 am** Using Propensity Score to Adjust Weights to Compensate for Nonresponse in the Medical Expenditure Panel Survey – ◆ Lap-Ming Wun, Agency for Healthcare Research and Quality; Trena M. Ezzati-Rice, Agency for Healthcare Research and Quality; Robert M. Baskin, Agency for

Healthcare Research and Quality; Marc W. Zodet, Agency for Healthcare Research and Quality; Janet Greenblat, Agency for Healthcare Research and Quality; Frank Potter, Mathematica Policy Research, Inc.; Nuria Diaz-Tena, Mathematica Policy Research, Inc.; Mourad Touzani, Mathematica Policy Research, Inc.

**10:15 am** Floor Discussion

**400** **TCC-709**  
**▲ ■ Issues in Nonsampling Error – Topic-contributed**

**Section on Survey Research Methods**

*Organizer(s): Jimmie B. Scott, U.S. Census Bureau*  
*Chair(s): Candice A. Barnes, U.S. Census Bureau*

- 8:35 am** Synchronizing Survey Edit and Imputation Systems: A Look at the American Housing Survey's Utility System – ◆ Mark Gorsak, U.S. Census Bureau/University of Maryland JPSM; Dennis Schwanz, U.S. Census Bureau
- 8:55 am** Comparison of Two Imputation Methods in the Survey of Doctorate Recipients – ◆ Jeffrey H. Stratton, U.S. Census Bureau; John M. Finamore, U.S. Census Bureau; Todd R. Williams, U.S. Census Bureau
- 9:15 am** Latent Class Models for Analysis of Response Error and Rotation Group Bias in the Current Population Survey – ◆ Khandaker Mansur, U.S. Census Bureau; Bac Tran, U.S. Census Bureau
- 9:35 am** Resources vs. Coverage—How to Minimize One and Maximize the Other: A Case Study from an Education Survey – ◆ Nancy R. Johnson, U.S. Census Bureau; Meagan Wilson, U.S. Census Bureau; Karen D. Deaver, U.S. Census Bureau; Stephen P. Broughman, National Center for Education Statistics
- 9:55 am** Converting from Paper to an Automated Mode for Collecting Group Quarters Data for Demographic Survey – ◆ Sherry E. Thorpe, U.S. Census Bureau
- 10:15 am** Floor Discussion

**401** **TCC-711**  
**▲ ■ Special Editing and Imputation Problems for Economic Data – Topic-contributed**

**Section on Survey Research Methods, Business and Economics Statistics Section**

*Organizer(s): Katherine Thompson, U.S. Census Bureau*  
*Chair(s): Katherine Thompson, U.S. Census Bureau*

- 8:35 am** Searching for Donors: Finding an Imputation Strategy – ◆ Michael Hogye, U.S. Department of Agriculture
- 8:55 am** Using Shortest-path Algorithms to Derive Implied Ratio Edits – ◆ Brian V. Greenberg, Social Security Administration; James T. Fagan, U.S. Census Bureau
- 9:15 am** Use of GST Data by the Monthly Survey of Manufacturing – ◆ Wesley Yung, Statistics Canada; Steven Thomas, Statistics Canada; Krista Cook, Statistics Canada
- 9:35 am** Evaluating Regression Imputation Models: An Example from the Services Sectors Portion of the Economic Census – ◆ Quatracia Williams, U.S. Census Bureau

Thursday

# GENERAL PROGRAM SCHEDULE

- 9:55 am** Automated Production of Foreign Trade Data Edit Parameters Using Resistant Fences — ♦ Ryan M. Fescina, U.S. Census Bureau
- 10:15 am** Floor Discussion

## 402 TCC-713 A **▲ Data Monitoring Committees—Challenges — Topic-contributed** **Biopharmaceutical Section**

*Organizer(s): Vipin K. Arora, Eli Lilly and Company*

*Chair(s): John E. Connett, University of Minnesota*

- 8:35 am** What is Enough? Preparation of DMC Reports on Interim Data — ♦ Marian R. Fisher, University of Wisconsin, Madison
- 8:55 am** Clinical Trial DMCs: Flexible Approaches for Optimal Monitoring — ♦ Andreas Sashegyi, Eli Lilly and Company
- 9:15 am** Clinical Trials Data-monitoring Committees: The Who, What, When, and Why of Unmasking — ♦ Anne S. Lindblad, EMWES Corporation
- 9:35 am** How to Organize a Data Monitoring Committee and Prepare an Optimal Data Package? — ♦ Vipin K. Arora, Eli Lilly and Company; David Manner, Southwestern Medical School
- 9:55 am** Disc: Joel Singer, University of British Columbia
- 10:15 am** Floor Discussion

## 403 TCC-701 B **Adapting to Changes in the Privacy and Confidentiality Landscape — Topic-contributed** **Section on Government Statistics, Cmte on Privacy and Confidentiality, Section on Survey Research Methods, Social Statistics Section**

*Organizer(s): Jay H. Casselberry, Energy Information Administration*

*Chair(s): Alvan O. Zarate, U.S. National Center for Health Statistics*

- 8:35 am** Implementing the Confidential Information Protection and Statistical Efficiency Act of 2002 — ♦ Katherine K. Wallman, U.S. Office of Management and Budget; Brian A. Harris-Kojetin, U.S. Office of Management and Budget
- 8:55 am** How a U.S. Federal Statistical Agency Responded to CIPSEA — ♦ William Parks, Bureau of Labor Statistics
- 9:15 am** Incorporating HIPAA Privacy Rule into Medical Record Surveys — ♦ Catharine W. Burt, Centers for Disease Control and Prevention
- 9:35 am** Federal Data Sharing Requirements and Issues: Contributions to be Made by Statistics, Survey Research, and Related Disciplines — ♦ Virginia A. de Wolf, Consultant
- 9:55 am** Motivating Standards for Disclosure Avoidance — ♦ Philip M. Steel, U.S. Census Bureau
- 10:15 am** Floor Discussion

## Regular Contributed Sessions 8:30 am–10:20 am

### 404 TCC-707 **Statistical Methods — Contributed** **Section on Statistical Computing**

*Chair(s): David Madigan, Rutgers University*

- 8:35 am** Inference on General Linear Regression Models with Unequal Error Variances — ♦ Shun-Yi Chen, Tamkang University; Miin-ye Wen, National Cheng Kung University
- 8:50 am** Dealing with Model Bias in a Nonlinear Mixed Model — ♦ Karen E.A. Chiswell, North Carolina State University; John Monahan, North Carolina State University
- 9:05 am** Bootstrap Confidence Intervals for Classification Error Rate in Circular Models — ♦ Hie-Choon Chung, Gwangju University; Chien-Pai Han, University of Texas, Arlington
- 9:20 am** Statistical Analysis Software for Multiplicative Interaction Models — ♦ Eun-Joo Lee, Kansas State University; Dallas E. Johnson, Kansas State University
- 9:35 am** Maximum Likelihood Estimation from Local Moments — ♦ Masahiko Sagae, Gifu University; Atsuyuki Kogure, Keio University
- 9:50 am** The Cutting Plane Algorithm in the Error Localization Problem — ♦ Bor-Chung Chen, U.S. Census Bureau; William E. Winkler, U.S. Census Bureau
- 10:05 am** University-wide Statistical Computing Support: A Practical Approach — ♦ John V. Samuel, Indiana University; Takuya Noguchi, Indiana University

### 405 TCC-718 A **Clinical Trials — Contributed** **Biopharmaceutical Section, Biometrics Section**

*Chair(s): Brian L. Wiens, Amgen, Inc.*

- 8:35 am** Analysis of Clinical Trial Data When Treatments Favor Different Endpoints — ♦ Leslie A. McClure, University of Michigan; Morton B. Brown, University of Michigan
- 8:50 am** Multiplicity in Clinical Trials Involving Multiple Treatment Groups — ♦ Kim Hung Lo, Centocor, Inc.; Mani Lakshminarayanan, Centocor, Inc.
- 9:05 am** Multiplicity Adjustments for Clinical Trials with Multiple Doses in Two-dose Regimens — ♦ Peng-Liang Zhao, Merck & Co., Inc.; Hui Quan, Merck & Co., Inc.
- 9:20 am** A Comparison of Methodologies for Assessing Onset of Action in Neuropsychiatric Clinical Trials — ♦ Craig H. Mallinckrodt, Eli Lilly and Company; Michael Detke, Eli Lilly and Company; Kaiser Christopher, Eli Lilly and Company; John Watkin, Eli Lilly and Company; Geert Malenberg, Limburgs Universitair Centrum; Raymond J. Carroll, Texas A&M University
- 9:35 am** Stochastic Models for Compliance Analysis and Applications — ♦ Junfeng Sun, The Ohio State University; Haikady N. Nagaraja, The Ohio State University
- 9:50 am** Statistical Models for the Analysis of Carotid Intima-media Thickness Data in Clinical Trials — ♦ Chunchung G. Law, Pfizer Global Research and Development; Mingxiu Hu, Pfizer Global Research & Development
- 10:05 am** Statistical Validation of Surrogate Endpoints in HCV Clinical Studies — ♦ James Jiao, Roche Laboratories, Inc.; Sylvia Hu, Roche Laboratories, Inc.; Guoqin Su, Novartis



## **The Biostatistics Center**

### **CLINICAL TRIAL BIOSTATISTICIANS**

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The Biostatistics Center of The George Washington University, founded in 1972, is a leader in the statistical coordination of clinical trials conducted by the National Institutes of Health. We enjoy over \$45 million per year of NIH research funding for major studies in cardiovascular disease, diabetes, maternal/fetal medicine, osteoporosis, urology, and the genetic basis for various diseases. The center has a staff of 124 with 26 biostatisticians/epidemiologists, including 9 faculty. We are recruiting MS and Ph.D. level staff to participate in these and future studies. Please visit our web site (below).

We are seeking individuals who want to join a highly competent team of academic biostatisticians and epidemiologists; who desire to contribute to the design and analysis of major medical studies, seek substantive scientific and statistical responsibility, enjoy interacting with medical investigators; take pride contributing to the publication of major papers in leading medical journals, and desire to make an impact on the public health. Our faculty also participate in graduate programs in biostatistics, epidemiology and statistics which afford opportunities for teaching at the graduate level. The research projects also provide an environment rich in methodological problems, with opportunities for collaboration with research active Center faculty and graduate students.

**Assistant to Full Research Professorial Positions:** (3 or more openings):

Ph.D. level positions available immediately to serve as Associate Project Director (Co-Investigator) or future Project Director (Principal Investigator). Minimum Requirements: Doctorate in Biostatistics, Statistics or Epidemiology, 1-5 years' experience with clinical trials, especially study design and statistical analysis of study results using SAS, excellent oral and written English communication skills, and supervisory experience. Review of applications has been ongoing since June 2002 and will continue until all positions are filled.

**Master's Level Research Position:** (1 or more)

Minimum Requirements: Master's in Biostatistics or Statistics and 1-5 years experience in analysis, supervision of data management and study design for biomedical applications. Good written and oral communication skills, and detailed knowledge of SAS required.

Rank/position title and salary commensurate with experience and qualifications. Tuition benefits for employee (including Ph.D. in Statistics, Biostatistics and Epidemiology) and for spouse and dependent children. Letter and CV to: Colleen Foster, HR Manger, The George Washington University Biostatistics Center, 6110 Executive Blvd., Suite 750, Rockville, MD 20852. No phone calls please. [HTTP://WWW.BSC.GWU.EDU](http://www.bsc.gwu.edu)

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# GENERAL PROGRAM SCHEDULE

## 406 TCC-705 **Statistical Applications in Business and Economics – Contributed**

### Business and Economics Statistics Section

Chair(s): David E. Giles, University of Victoria

- 8:35 am** A Modified Coefficient of Variation for Partially Grouped Data — ♦ Keith Ord, Georgetown University; Harvey Iglarsh, Georgetown University
- 8:50 am** A Further Result on the Calculation of the Total Claims Distribution under Different Conditions — ♦ Min Deng, Maryville University, St. Louis
- 9:05 am** Pitfalls of Using Unit Values as a Price Measure or Price Index — ♦ Ralph Bradley, Bureau of Labor Statistics
- 9:20 am** Measuring the Preventive Value of Remote Maintenance — ♦ Ping Zhang, Avaya Labs Research; James M. Landwehr, Avaya Labs Research; Mihaela Serban, Carnegie Mellon University
- 9:35 am** Dynamic Profiling of Online Auctions Using Curve Clustering — ♦ Wolfgang Jank, University of Maryland
- 9:50 am** Shewhart's Dilemma — ♦ Joyce N. Orsini, Fordham University
- 10:05 am** Distributional Dynamics of Per Capita Income in Latin America: A Nonparametric Density Estimation Approach — ♦ Stephen Pollard, California State University, Los Angeles; Giorgio Canarella, California State University, Los Angeles

## 407 TCC-803 A **Experimental and Study Design – Contributed** **General Methodology**

Chair(s): Mayetri Gupta, University of North Carolina, Chapel Hill

- 8:35 am** An Investigation of Minimization Criteria — ♦ Angie Wade, University College London
- 8:50 am** Study Design for Evaluation of a Diagnostic Test with Partially Missing Gold Standard — ♦ Ying Chen, Emory University; Andrzej Kosinski, Duke University
- 9:05 am** Comparisons of Random Nested Designs Using Quantile Dispersion Graphs — ♦ Juneyoung Lee, Korea University; Byung-Chul Jung, Korea University
- 9:20 am** Optimal Incomplete Designs with Two Blocks — ♦ Bo Jin, Virginia Polytechnic Institute and State University; John P. Morgan, Virginia Polytechnic Institute and State University
- 9:35 am** Optimal Time Spacing for Designing Panel Studies — ♦ Chen-Pin Wang, University of Texas, San Antonio
- 9:50 am** Optimal Compound Orthogonal Arrays and Single Arrays for Robust Parameter Design Experiments — ♦ Yu Zhu, Purdue University; Peng Zeng, Purdue University
- 10:05 am** Designs Accounting for Potential Missing Trials in Multiple-objective Dose-response Studies — ♦ InYoung Baek, SUNY, Stony Brook; Wei Zhu, SUNY, Stony Brook

## 408 TCC-803 B **Distribution Theory and Analysis – Contributed** **General Methodology**

Chair(s): Gopika R. Goswami, Harvard University

- 8:35 am** Improved Interval Estimation for the Two-parameter

- 8:50 am** Birnbaum-Saunders Distribution — ♦ Jianrong Wu, St. Jude Children's Research Hospital; Augustine Wong, York University
- 9:05 am** Tests for Location-scale Families Based on the Empirical Characteristic Function — ♦ Thomas W. Epps, University of Virginia

- 9:20 am** Estimation of Hazard Rate Using Length-biased Sample — ♦ Olcay Akman, College of Charleston
- 9:35 am** A Modeling Approach for Distributions with Parametric Tails — ♦ Jin Cao, Bell Labs Lucent Technologies; Yongzhao Shao, New York University
- 9:50 am** Properties of Beta-Gamma Distribution — ♦ Lingji Kong, Central Michigan University; Carl Lee, Central Michigan University; Jungsywan Sepanski, Central Michigan University

## 409 TCC-703 **Missing Data and Models for Health Policy Decisions – Contributed**

### Section on Health Policy Statistics, Section on Survey Research Methods

Chair(s): Richard C. Gardiner, New York Association of Homes and Services for the Aging

- 8:35 am** Imputation of Financial Fields in Integrated Anonymous Patient-level Databases — ♦ Evguenia I. Jilinskaia, Pharmetrics Inc.; Teri Condon Goodwin, Pharmetrics Inc.; Cathy Johnson, Pharmetrics Inc.; Stanley Norton, Pharmetrics Inc
- 8:50 am** Evaluating Factors of a Hot-deck Imputation Procedure in a Longitudinal Depression Treatment Study — ♦ Juned Siddique, University of California, Los Angeles; Thomas R. Belin, University of California, Los Angeles
- 9:05 am** Physiological Reactivity and Post-traumatic Stress Disorder Diagnosis When Some Data are Missing — ♦ Haekyung Jeon-Slaughter, University of Oklahoma Health Sciences Center; Phebe Tucker, University of Oklahoma Health Sciences Center; Carol S. North, Washington University School of Medicine; Betty Pfefferbaum, University of Oklahoma of Health Sciences Center
- 9:20 am** Latent Classes within the Military: Who May Need "Zero Tolerance" Interventions? — ♦ Theresa J. Gromala, University of Minnesota
- 9:35 am** A Prospective Approach to Decision-making for Conducting Public Health Interventions — ♦ Thomas Wasser, Lehigh Valley Hospital
- 9:50 am** A Comparison of Methods Used for Constructing Confidence Intervals for Cost-effectiveness Ratio — ♦ Ming-Yu Fan, University of Washington; Xiao-Hua A. Zhou, University of Washington
- 10:05 am** Type of Health Insurance, Race, and the Rate of Prostate Cancer — ♦ Negasi Beyene, Centers for Disease Control and Prevention

## 410 TCC-713 B **Topics in Sports Statistics – Contributed** **Section on Statistics in Sports**

Chair(s): David Groggel, Miami University

- 8:35 am** Models for Third-down Efficiency in the NFL —  
◆ Christopher J. Rigdon, Southern Illinois University, Edwardsville; Steven E. Rigdon, Southern Illinois University, Edwardsville
- 8:50 am** Football Performance Plots — ◆ James M. Lucas, J.M. Lucas and Associates
- 9:05 am** Hybrid Paired Comparison Analysis — ◆ David H. Annis, Naval Postgraduate School; Bruce A. Craig, Purdue University
- 9:20 am** Probability Models for 64-Team NCAA Tournaments —  
◆ Scott Stewart, University of Arkansas for Medical Sciences; Christopher R. Bilder, University of Nebraska, Lincoln
- 9:35 am** The Winning Probability and A Priori Relative Ranking in the Game of Soccer — ◆ Alfred A. Akinsete, Marshall University; Nicholas J. Wintz, Marshall University
- 9:50 am** Where Have You Gone, Carl Yastrzemski? Multivariate Analysis of Baseball and the Triple Crown — ◆ John E. Daniels, Central Michigan University
- 10:05 am** U-Statistics in Olympics and Baseball: Objective Scores for Profiles of Medals and Hits — ◆ Knut M. Wittkowski, Rockefeller University; Lubomir Merkov, Rockefeller University

**411 TCC-715 B**  
**▲ New Technologies in Surveys — Contributed Section on Survey Research Methods, Social Statistics Section**

*Chair(s): Sunghee Lee, University of Maryland*

- 8:35 am** The Online Survey: Its Contributions and Potential Problems — ◆ Kevin McIntyre, Saint Louis University; Hisako Matsuo, Saint Louis University; Terry Tomazic, Saint Louis University; Barry Katz, Saint Louis University
- 8:50 am** The Net Effect: A Comparison of Internet vs. Mail Survey Respondents — ◆ Esther M. Friedman, Mathematica Policy Research, Inc.; Nancy A. Clusen, Mathematica Policy Research, Inc.; Michael Hartzell, U.S. Department of Defense
- 9:05 am** Data Collection Mode Effects Controlling for Sample Origins in an Internet Panel Survey — ◆ J. Michael Dennis, Knowledge Networks, Inc.; Cindy Chatt, University of Nebraska
- 9:20 am** Web, Mail, and Mixed-mode Data Collection in a Survey of Advanced Technology Program Applicants — ◆ Jeffrey Kerwin, Westat; Pat D. Brick, Westat; Kerry Levin, Westat; David Cantor, Westat; Jennifer O'Brien, Westat; Andrew Wang, National Institute of Standards and Technology; Stephen Campbell, National Institute of Standards and Technology; Stephanie Shipp, National Institute of Standards and Technology
- 9:35 am** Protocol for Converting Respondents from Touchtone to the Internet in the Current Employment Statistics Program — ◆ Richard Rosen, Bureau of Labor Statistics; Louis Harrell, Bureau of Labor Statistics; David Ballard, Bureau of Labor Statistics; Ric Wise, Bureau of Labor Statistics; Tony Gomes, Bureau of Labor Statistics
- 9:50 am** Computer Assisted Survey Data Collection for Geographic Features — ◆ Sarah Nusser, Iowa State University
- 10:05 am** Floor Discussion

**412 TCC-717 A**  
**▲ Surveys of Special Population — Contributed Section on Survey Research Methods, Social Statistics Section**

*Chair(s): Ting Yan, JPSM, University of Maryland/Abt Associates*

- 8:35 am** Survey Errors and Survey Costs: Experience from Surveys of Arrestees — ◆ Yonghe M. Yang, NORC, University of Chicago
- 8:50 am** A Three-stage Cluster-sampling Approach for Clinical Surveillance of Persons in Care for HIV Infection in the United States — ◆ Maxine M. Denniston, Centers for Disease Control and Prevention; Mitchell L. Wolfe, Centers for Disease Control and Prevention; Amy J. Drake, Centers for Disease Control and Prevention; Patrick Sullivan, Centers for Disease Control and Prevention; Sandra Berry, RAND Corporation; Sam Bozzette, RAND Corporation; Sally Morton, RAND Corporation; Martin Frankel, Baruch College, CUNY
- 9:05 am** Challenges in the Redesign of the Canadian Trucking Origin/Destination Survey — ◆ François Gagnon, Statistics Canada
- 9:20 am** Sample Design for Monitoring the Data Collection Process of Large-scale Natural Resource Surveys — ◆ Cristiano Ferraz, Iowa State University; Jean Opsomer, Iowa State University; Sarah Nusser, Iowa State University
- 9:35 am** Sampling Issues in Transportation — ◆ Promod Chandhok, Bureau of Transportation Statistics
- 9:50 am** Sample Frame Deduplication in the World Trade Center Health Registry: Minimizing Overcoverage and Cost — ◆ Joseph Murphy, RTI International; Paul Pulliam, RTI International; Randolph Lucas, RTI International; Deborah Walker, NYC Department of Health and Mental Hygiene
- 10:05 am** Sample Design for the Terrorism Risk Insurance Program Survey — ◆ G. Hussain Choudhry, Westat; Mats G. Nyfjall, Westat; Marianne Winglee, Westat

**413 TCC-802 A**  
**▲ New Methods in Survival Analysis — Contributed Biometrics Section, Section on Statistics in Epidemiology**

*Chair(s): Lionel Galway, RAND Corporation*

- 8:35 am** The Development of a Frailty Model for Unexplained Heterogeneity in the Framingham Heart Study — ◆ Usha S. Govindarajulu, Harvard School of Public Health; Mark E. Glickman, Boston University; Ralph B. D'Agostino, Sr., Boston University
- 8:50 am** A Gap Time Approach for the Analysis of Interval-censored Recurrent Event Data — ◆ Dan Sheng, New York University; Mimi Kim, Albert Einstein College of Medicine
- 9:05 am** Survival Likelihood Intervals with Censored Data — ◆ Alain C. Vandal, McGill University/SMBD Jewish General Hospital; Robert Gentleman, Harvard School of Public Health; Xuecheng Liu, McGill University
- 9:20 am** Flowgraph Models for Recurrent Events — ◆ C. Lillian Yau, Tulane University; Aparna V. Huzurbazar, University of New Mexico
- 9:35 am** Estimating Conditional Survival Probability with Cox's PH Model for Two-stage Design Studies — ◆ Gang Li, University of California, Los Angeles; Chi-hong Tseng, University of California, Los Angeles

Thursday

# GENERAL PROGRAM SCHEDULE

- 9:50 am** Analysis of Case-cohort Data with Accelerated Failure-time Model — ◆ Lan Kong, University of Pittsburgh
- 10:05 am** Empirical Likelihood-based Semiparametric Inference of the Treatment Effect in the Two-sample Problem — ◆ Hua Liang, St. Jude Children's Research Hospital

**414** **TCC-714 A**  
**Bayesian Theory – Contributed**  
**Section on Bayesian Statistical Science**

Chair(s): Ying Yang, University of Texas M.D. Anderson Cancer Center

- 8:35 am** Asymptotic Admissibility and Bayesian Estimation — ◆ John W. Emerson, Yale University
- 8:50 am** A Fundamental Lemma of Specifying Conditional Densities for the Existence of a Joint Density — ◆ Lung-An Li, Academia Sinica
- 9:05 am** Bayesian Alternatives to “Exact” P Values in Sparse Two-way Tables — ◆ Murray Aitkin, University of Newcastle-upon-Tyne; Magreth Njau, University of Newcastle-upon-Tyne
- 9:20 am** Reducing Subjectivity in the Likelihood — ◆ S. James Press, University of California, Riverside
- 9:35 am** Directional Approach to Assessing Likelihood Stability — ◆ Michael B. Brimacombe, New Jersey Medical School - UMDNJ
- 9:50 am** Bias Reduction in Stochastic Covering Problems via a Bayesian Approach with a Conjugate Prior — ◆ James J. Cochran, Louisiana Tech University
- 10:05 am** The Use of Kullback-Leibler Divergences in Bayesian Sensitivity Analysis — ◆ Daniel M. Farewell, Lancaster University

**415** **TCC-718 B**  
**Statistical Methods for Microarray Data – Contributed**  
**Biometrics Section, WNAR**

Chair(s): Jialu Zhang, University of Maryland, Baltimore County

- 8:35 am** The Impact of Loess Normalization on Intrastride Correlation in Microarray Data — ◆ Eric R. Siegel, University of Arkansas for Medical Sciences; John Thaden, University of Arkansas for Medical Sciences; Pippa M. Simpson, Arkansas Children's Hospital
- 8:50 am** Clustering Gene Expression Data Based on P Values — ◆ Jun Li, Rutgers University; Rebecka J. Jornsten, Rutgers University; Regina Y. Liu, Rutgers University
- 9:05 am** Assessing Statistical Significance in Microarray Experiments Using the Distance between Microarrays — ◆ Douglas Hayden, Massachusetts General Hospital; David Schoenfeld, Massachusetts General Hospital
- 9:20 am** Multiple Imputation in Microarray Data Analysis — ◆ John Barnard, Cleveland Clinic Foundation; Xuejun Peng, Cleveland Clinic Foundation; Yaomin Xu, Cleveland Clinic Foundation
- 9:34 am** You Can Learn a Lot by Looking: Insights into Affymetrix Data — ◆ Terry M. Therneau, Mayo Clinic; Karla Ballman, Mayo Clinic; Ann Oberg, Mayo Clinic
- 9:50 am** Estimating Misclassification Error with Small Samples — ◆ Wenjiang J. Fu, Texas A&M University; Raymond J. Carroll, Texas A&M University

- 10:05 am** Semi-nonparametric Model for Cell Cycle Microarray Data — ◆ Guei-Feng Tsai, Oregon State University; Annie Qu, Oregon State University

## Invited Sessions 10:30 am–12:20 pm

**416** **TCC-701 B**  
**Beyond the Proportional Hazards Models: New Paradigms in Survival Analysis – Invited**  
**WNAR, Section on Statistics in Epidemiology**

Organizer(s): Ying Qing Chen, University of California, Berkeley

Chair(s): Su-Chun Cheng, University of California, San Francisco

- 10:35 am** Semiparametric Box-Cox Power Transformation Models for Censored Survival Observations — ◆ Tianxi Cai, Harvard University
- 11:00 am** On Collapsibility — ◆ David Oakes, University of Rochester
- 11:25 am** Semiparametric Regression Analysis of Mean Residual Life with Censored Survival Data — ◆ Ying Qing Chen, University of California, Berkeley
- 11:50 am** Disc: Jack Kalbfleisch, University of Michigan
- 12:10 pm** Floor Discussion

**417** **TCC-703**  
**Model-based Statistical Inference on Biological Processes – Invited**  
**Biometrics Section, Section on Statistics in Epidemiology**

Organizer(s): Andrei Y. Yakovlev, University of Rochester

Chair(s): Andrei Y. Yakovlev, University of Rochester

- 10:35 am** Stochastic Modeling of Hematopoiesis — ◆ Sandra N. Catlin, University of Nevada, Las Vegas
- 11:05 am** Random Effects Models for the Transmission of Dynamic Mutations — ◆ Richard Huggins, La Trobe University; Minh Bui, La Trobe University; Guoqi Qian, La Trobe University; Danuta Loesch, La Trobe University
- 11:35 am** Inference on Cell Proliferation from Clonal Data — ◆ Ollivier Hyrien, University of Rochester Medical Center
- 12:05 pm** Floor Discussion

**418** **TCC-707**  
**Risk-utility Approaches to Statistical Disclosure Limitation – Invited**  
**National Institute of Statistical Sciences, Section on Government Statistics, Section on Survey Research Methods, Social Statistics Section**

Organizer(s): Alan F. Karr, National Institute of Statistical Sciences

Chair(s): Alan F. Karr, National Institute of Statistical Sciences

- 10:35 am** Inference-based Measures of Utility for Contingency Tables — ◆ Ashish Sanil, National Institute of Statistical Sciences
- 11:00 am** Disclosure Risk and Data Utility for Remote-access Regression Servers — ◆ Jerome Reiter, Duke University; Ashish Sanil, National Institute of Statistical Sciences; Alan F. Karr, National Institute of Statistical Sciences; Shanti Gomadam, U.S. Food and Drug Administration
- 11:25 am** Data Swapping: Disclosure Risk vs. Data Utility — ◆ S.



Lynne Stokes, Southern Methodist University; George Duncan, Carnegie Mellon University; Sallie Keller-McNulty, Los Alamos National Laboratory

- 11:50 am Risk-utility Considerations in Secure Data Integration — ♦ Xiaodong Lin, NISS and SAMSI
- 12:15 pm Floor Discussion

**419 TCC-701 A**  
**Recent Development in Proteomics Analysis — Invited**  
**Biopharmaceutical Section, Section on Statistical Graphics**

Organizer(s): Lian Xu, BristolMyers Squibb Company

Chair(s): Lian Xu, BristolMyers Squibb Company

- 10:35 am Linking and Pattern-matching in Multiple Large Data Two-way Tables — ♦ S. Stanley Young, NISS; Li Liu, Aventis Pharmaceuticals; Douglas Hawkins, University of Minnesota
- 11:05 am Death by Data Analysis? The Demise of 2D-Gel Proteomics — ♦ Bert Gunter, Merck & Co., Inc.
- 11:35 am Computational Strategies for Analyzing Protein Interaction Networks — ♦ George Michailidis, University of Michigan
- 12:05 pm Floor Discussion

**420 TCC-713 B**  
**Empirical Likelihood: The State of the Art — Invited**  
**IMS**

Organizer(s): Gang Li, University of California, Los Angeles

Chair(s): Gang Li, University of California, Los Angeles

- 10:35 am Weighted Empirical Likelihood — ♦ Jianjian Ren, University of Central Florida
- 11:00 am Comparison of Density Functions via Empirical Likelihood — Ricardo Cao, University of La Coruna; ♦ Ingrid Van Keilegom, Universite catholique de Louvain
- 11:25 am Estimation of Semiparametric Mixture Models Using an Empirical Likelihood-based Algorithm — ♦ Yuichi Kitamura, University of Pennsylvania
- 11:50 am Disc: Ian W. McKeague, Florida State University
- 12:10 pm Floor Discussion

**421 TCC-801 A**  
**Recent Advances in Fractional Factorial Designs — Invited**  
**Section on Quality and Productivity, Business and Economics Statistics Section**

Organizer(s): Dennis K.J. Lin, Pennsylvania State University

Chair(s): Stephen P. Jones, Boeing Company

- 10:35 am Doubling and Projection: A Method of Constructing Two-level Designs of Resolution IV — ♦ Ching-Shui Cheng, Academia Sinica and University of California, Berkeley
- 11:00 am Optimal Foldover Plans for Two-level Regular and Nonregular Orthogonal Designs — ♦ William Li, University of Minnesota; Dennis K.J. Lin, Pennsylvania State University; Kenny Q. Ye, SUNY, Stony Brook

- 11:25 am Model Selection in the Presence of Multiple Dispersion Effects in Unreplicated Fractional Factorials — ♦ Richard N. McGrath, Bowling Green State University
- 11:50 am Bayesian D-optimal Supersaturated Design — ♦ Bradley Jones, SAS Institute Inc.
- 12:15 pm Floor Discussion

**422 TCC-709**  
**Outliers in Finite Population Sampling — Invited**  
**Section on Survey Research Methods, Social Statistics Section, Business and Economics Statistics Section, Section on Physical and Engineering Sciences, SSC**

Organizer(s): Malay Ghosh, University of Florida

Chair(s): Meena Khare, National Center for Health Statistics

- 10:35 am Influence Functions and Robust Small-area Estimation — ♦ Malay Ghosh, University of Florida
- 11:05 am Outlier Robust Imputation of Survey Data — Raymond Chambers, University of Southampton; ♦ Ruilin Ren, ORC Macro International Inc.
- 11:35 am Outlier Treatment for Disaggregated Estimates — ♦ Louis-Paul Rivest, Université Laval; Mike Hidioglou, Office of National Statistics
- 12:05 pm Floor Discussion

**Topic-Contributed Sessions 10:30 am–12:20 pm**

**423 TCC-717 A**  
**Multiple Testing — Topic-contributed**  
**Biometrics Section, Section on Physical and Engineering Sciences**

Organizer(s): Francoise Seillier-Moiseiwitsch, University of Maryland, Baltimore County

Chair(s): Matthew Hall, University of Kansas Medical Center

- 10:35 am Multiple Testing in 2<sup>k</sup> Experiments — ♦ Jane Y. Chang, Bowling Green State University; Jason Hsu, Ohio State University
- 10:55 am Sample Size Calculation for Simulation-based Multiple Testing Procedures — ♦ Heejung Bang, University of North Carolina; Sin-Ho Jung, Duke University; Stephen George, Duke University
- 11:15 am Maximum Likelihood Estimation for the Number of True Null Hypotheses in a Multiple Two-sided Hypotheses-testing Problem — ♦ Huey-Miin Hsueh, National Cheng-Chi University
- 11:35 am Multiple Testing in a Hierarchical Framework — ♦ Aurelie Labbe, University of Waterloo
- 11:55 am A Two-stage Method for Multiple-hypothesis-testing — ♦ Shuhui Wen, National Taiwan University and Yuanpei University of Science and Technology; Chu-Hsing Hsiao, National Taiwan University
- 12:15 pm Floor Discussion

# GENERAL PROGRAM SCHEDULE

## Regular Contributed Sessions 10:30 am–12:20 pm

424 TCC-705

### Disease Specific Methodologies – Contributed Biometrics Section

Chair(s): LuAnn Johnson, U.S. Department of Agriculture

- 10:35 am** A Nonlinear Mixed Effect Model for Hepatitis C Viral Dynamics — ♦ KyungAh Im, University of Pittsburgh; Abdus S. Wahed, University of Pittsburgh; Thelma E. Wiley, Rush University; Steven H. Belle, University of Pittsburgh
- 10:50 am** A Queuing Model for Chronic Recurrent Conditions — ♦ Catherine Crespi, University of California, Los Angeles; William G. Cumberland, University of California, Los Angeles; Sally Blower, University of California, Los Angeles
- 11:05 am** Hierarchical Modeling of Glaucomatous Visual Field Progression — ♦ Luohua Jiang, University of California, Los Angeles; Gang Li, University of California, Los Angeles; Joseph Caprioli, Jules Stein Eye Institute
- 11:20 am** Multicriteria Inference for Process Models: Structural and Parametric Inference for a Stochastic Model of Feline Hematopoiesis — ♦ Joel H. Reynolds, U.S. Fish & Wildlife Service; Daniela Golinelli, RAND Corporation
- 11:35 am** Optimal Design for Simultaneous Inference Using Pooled Assessments — ♦ Joshua M. Tebbs, Kansas State University; Melinda H. McCann, Oklahoma State University
- 11:50 am** The Relationship of the Six-minute Test to Maximal Oxygen Consumption under Skew-normal Assumptions — ♦ Corrado Crocetta, Università di Foggia; Nicola Loperfido, Università di Urbino
- 12:05 pm** Floor Discussion

425 TCC-802 B

### Data Mining and Scaling up Statistical Methods – Contributed

#### Section on Statistical Computing

Chair(s): Greg Ridgeway, RAND Corporation

- 10:35 am** Improving Likelihood-based Data-squashing — ♦ Yuchung J. Wang, SUNY, Rutgers; Xiaodong Sun, SUNY, Rutgers
- 10:50 am** The Development and Exploration of Online Classifiers for Backscatter from Denial of Service Attacks — ♦ Kendall Giles, Johns Hopkins University; David J. Marchette, Naval Surface Warfare Center; Carey Priebe, Johns Hopkins University
- 11:05 am** A Statistical Foundation for Association Rules Based on Clustering — ♦ Carlos Ordonez, Teradata, NCR
- 11:20 am** Fast Kernel Density Estimation and Its Applications — ♦ Aiyou Chen, University of California, Berkeley; Peter Bickel, University of California, Berkeley; Haihong Sheng, University of California, Davis
- 11:35 am** Efficient Clustering for Principal Components — ♦ Bruce Barrett, University of Alabama; Wade Watkins, University of Alabama
- 11:50 am** Permutation Tests in Assessing Survival Forests for Prognosis Based on Gene Profiles — ♦ Van L. Parsons, National Center for Health Statistics; Thu Hoang, Université René Descartes

- 12:05 pm** A Framework for Building R-based ActiveX Components — ♦ David A. James, Bell Laboratories; Duncan T. Lang, Bell Laboratories

426 TCC-713 A

### Nonparametric Methods for Censored Data – Contributed

#### Section on Nonparametric Statistics

Chair(s): Bingshu E. Chen, National Cancer Institute

- 10:35 am** A Class of One-step Estimators in Interval Censoring — ♦ Gheorghe Doros, Yale University; David Pollard, Yale University
- 10:50 am** Nonparametric and Semiparametric Analysis of Failure-time Data with Time-varying Group Status: Applications to HIV Genomic Data — ♦ Thomas LaFramboise, Harvard University
- 11:05 am** Estimation with Univariate “Mixed Case” Interval-censored Data — ♦ Shuguang Song, Boeing Company
- 11:20 am** Comparison of Regression Curves for Censored Responses — ♦ Juan C. Pardo-Fernandez, Universidade de Vigo; Ingrid van Keilegom, Université Catholique de Louvain; Wenceslao Gonzalez-Manteiga, Universidade de Santiago de Compostela
- 11:35 am** Censored Regression by the Method of Average Derivatives — ♦ Xuewen Lu, University of Calgary; Murray D. Burke, University of Calgary
- 11:50 am** Outlier Detection and Treatment in the Current Employment Statistics Survey — ♦ Julie B. Gershunskaya, Bureau of Labor Statistics; Larry L. Huff, Bureau of Labor Statistics
- 12:05 pm** Floor Discussion

427 TCC-803 A

### Case Studies – Contributed

#### General Methodology

Chair(s): Mu Zhu, University of Waterloo

- 10:35 am** Clustering Models to Improve Forecasts in Retail Merchandising — ♦ Nitin Patel, Cytel Software Corp.
- 10:50 am** Elevated Infant Death Rates a Product of Chance — ♦ Winston A. Richards, Pennsylvania State University, Harrisburg
- 11:05 am** Variations in Road Accident Counts: An Explanatory Time-series Model — ♦ Filip A.M. Van den Bossche, Limburgs Universitair Centrum; Tom Brijs, Limburgs Universitair Centrum; Geert Wets, Limburg University Centre
- 11:20 am** A Generalized Estimating Equations Approach to Analyzing a Replicated cDNA Microarray Experiment — ♦ Susan J. Simmons, University of North Carolina, Wilmington; Meng Wu, University of North Carolina, Wilmington; Ann Stapleton, University of North Carolina, Wilmington
- 11:35 am** Standardization and Denoising Algorithms for Mass Spectra to Classify Whole-organism Bacterial Specimens — ♦ Somnath Datta, University of Georgia; Glen Satten, Centers for Disease Control and Prevention; Hercules Moura, Centers for Disease Control and Prevention; Adrian Woolfitt, Centers for Disease Control and Prevention; John Barr, Centers for Disease Control and Prevention
- 11:50 am** Floor Discussion

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# GENERAL PROGRAM SCHEDULE

428

TCC-714 B

## Engineering Applications – Contributed Section on Physical and Engineering Sciences

Chair(s): Gary Fowler, U.S. Naval Academy

- 10:35 am** A Survey of Design, Analysis, and Reporting of Results in Key Comparisons — ♦ Adriana Hornikova, National Institute of Standards and Technology; William F. Guthrie, National Institute of Standards and Technology
- 10:50 am** Empirical-mechanistic Modeling for Monitoring Multiproduct Manufacturing Process Applied to the Fabrication of Integrated Circuits — ♦ Spencer B. Graves, PDF Solutions
- 11:05 am** Statistical Modeling of Flow Instabilities in an Engineering System — ♦ Carolyn B. Morgan, Hampton University; Morris H. Morgan, III, Hampton University; Adrian Cox, Hampton University
- 11:20 am** Approximating Stationary Distribution of Atom Traps Using Twin Processes — ♦ James H. Yen, National Institute of Standards & Technology
- 11:35 am** Automated Detection of Evoked Responses Using Wavelets — ♦ Jonathan D. Norton, University of Arkansas for Medical Sciences
- 11:50 am** Classification Using Time-frequency Representations — ♦ Justin W. Davis, Baylor University
- 12:05 pm** Floor Discussion

429

TCC-801 B

## Quality Control – Contributed Section on Quality and Productivity

Chair(s): Landon Sego, Virginia Polytechnic Institute and State University

- 10:35 am** Optimal and Asymptotically Optimal CUSUM Rules for Change-point Detection in the Brownian Motion Model with Multiple Alternatives — ♦ Olympia Hadjilias, Columbia University; George V. Moustakides, INRIA
- 10:50 am** Distribution-free Statistical Process Control with Bootstrap Cumulative Sum Control Charts — ♦ Singdhansu Chatterjee, University of Minnesota
- 11:05 am** On Detection of Changes in Count Data — ♦ Emmanuel Yashchin, IBM Research
- 11:20 am** New Control Charts for the Mean of the Poisson Distribution — ♦ John Aleong, University of Vermont
- 11:35 am** A Comparison of Spectral Control Charts — ♦ Laura A. McSweeney, Fairfield University
- 11:50 am** Statistical Process Control on Biochemical QC Data — ♦ Nien Fan Zhang, National Institute of Standards and Technology
- 12:05 pm** Floor Discussion

430

TCC-803 B

## Generalized Regression and Linear Models – Contributed General Methodology

Chair(s): Johan Lim, Texas A&M University

- 10:35 am** Modeling College Application and Matriculation Likelihood Using Logistic Regression Scoring — ♦ Douglas M. Andrews, Wittenberg University
- 11:05 am** Quantile Dispersion Graphs for Poisson Regression

Models — ♦ Siuli Mukhopadhyay, University of Florida; Andre I. Khuri, University of Florida

- 11:20 am** Multiple Spherical Regression — ♦ Tom Downs, Rice University; Kathy Downs, Research Statistics, Inc.
- 11:35 am** Evaluation of Approximate P Values in Logistic Regression — ♦ Xiaohong Zhang, Iowa State University; Lynn R. LaMotte, Louisiana State University
- 11:50 am** Minimum Distance Estimation for the Logistic Regression Model — ♦ Howard Bondell, Rutgers University
- 12:05 pm** Path Analysis with Logistic Regression — ♦ Scott Menard, University of Colorado

431

TCC-710

## Application of Regression and Linear Models – Contributed Business and Economics Statistics Section

Chair(s): Keith Ord, Georgetown University

- 10:35 am** Regional Mobility and Unemployment in Germany—An Analysis with District-level Data — ♦ Anette Haas, Institute for Employment Research
- 10:50 am** Further Analysis of Financial and Other Factors as Predictors of Freshman-to-sophomore Retention — ♦ Andrew W. Braunstein, Iona College; Donn Pescatrice, Iona College; Mary Lesser, Iona College
- 11:05 am** The Use of Interactions in Analyzing Gender/Race Differences in Compensation — ♦ Gholam H. Borhani, Economic Research Service; Chris Haan, Economic Research Service
- 11:20 am** Robust Estimation of Electric Utility Betas — ♦ James B. McDonald, Brigham Young University
- 11:35 am** Model Selection and Parameter Estimation for Dynamic Panel Data — ♦ Dylan Small, University of Pennsylvania; Tze Leung Lai, Stanford University
- 11:50 am** Estimation of Partially Additive Linear Models with an Application to Gasoline Demand — ♦ Dawit Zerom, University of Alberta; Sebastiano Manzan, University of Amsterdam
- 12:05 pm** Inconsistency of Estimate of the Degree of Freedom of Multivariate Student-t Disturbances in Linear Regression Models — ♦ Wai C. Ip, Hong Kong Polytechnic University

432

TCC-714 A

## Design of Experiments II – Contributed Section on Physical and Engineering Sciences

Chair(s): Yan Yuan, University of Waterloo

- 10:35 am** An Empirical Comparison of Several Popular Designs for Computer Experiments — ♦ Ofelia Marin, Ohio State University; William Notz, Ohio State University; Thomas J. Santner, Ohio State University
- 10:50 am** Design and Analysis of Probability of Visual Detection for Surface Dents — ♦ Sabyasachi Basu, Boeing Company; Fritz Scholz, Boeing Company; Julio L. Peixoto, Boeing Company; Thompson Jeffrey, Boeing Company
- 11:05 am** Some Comments on “Staircase Method” Stress Tests — ♦ Robert Kushler, Oakland University
- 11:20 am** Design and Analysis of Probability of Subsurface Crack Detection — ♦ Julio L. Peixoto, Boeing Company;

- Sabyasachi Basu, Boeing Company; Fritz Scholz, Boeing Company; Gregory Warren, Boeing Company
- 11:35 am** A Classification of Two-level Designs — ♦ Tena I. Katsaounis, Ohio State University
- 11:50 am** A Repeated Measures Split-plot Experiment to Investigate the Effect of Cabin Pressure on Comfort and Well-being of Airline Passengers — ♦ Stephen P. Jones, Boeing Company; H-Li Lu, Boeing Company
- 12:05 pm** Floor Discussion

**433** **TCC-712**

**▲ Telephone Surveys – Contributed**  
**Section on Survey Research Methods, Social Statistics**  
**Section**

*Chair(s): E. Ann Dimler, U.S. Census Bureau*

- 10:35 am** Bias from Excluding Households without Telephones in Random Digit Dialing Surveys: Follow-up — ♦ Mourad Touzani, Mathematica Policy Research, Inc.; John W. Hall, Mathematica Policy Research, Inc.
- 10:50 am** Cellular Telephone Use Among Households with No or with Substantial Interruptions in Landline Service — ♦ John W. Hall, Mathematica Policy Research, Inc.; Mourad Touzani, Mathematica Policy Research, Inc.; Yuhong Zheng, Mathematica Policy Research, Inc.
- 11:05 am** An Assessment of Interrupted Telephone Service Adjustment — ♦ Mansour Fahimi, RTI International; Lily Trofimovich, RTI International; Ali Mokdad, Centers for Disease Control and Prevention; Michelle Town, Centers for Disease Control and Prevention; William Garvin, Centers for Disease Control and Prevention; Lina Balluz, Centers for Disease Control and Prevention; Henry Wells, RTI International; Paul Levy, RTI International
- 11:20 am** Analysis of Nonresponse in Cross-sectional RDD Surveys — ♦ Randal S. ZuWallack, ORC Macro International Inc.; Ronaldo Iachan, ORC Macro International Inc.; Leslyn Hall, ORC Macro International Inc.
- 11:35 am** Assessing Nonresponse in Telephone Surveys — ♦ Ronaldo Iachan, ORC Macro International Inc.; Randal S. ZuWallack, ORC Macro International Inc.
- 11:50 am** Mode Effects in the Canadian Community Health Survey: A Comparison of CAPI and CATI — ♦ Martin St-Pierre, Statistics Canada; Yves Béland, Statistics Canada
- 12:05 pm** Floor Discussion

**434** **TCC-802 A**

**▲ Economic and Business Topics in Government Statistics – Contributed**  
**Section on Government Statistics, Business and Economics Statistics Section**

*Chair(s): Dean Resnick, U.S. Census Bureau*

- 10:35 am** Missing Income Information in Panel Data: Incidence, Imputation, and Its Impact on the Income Distribution — ♦ Joachim R. Frick, DIW Berlin; Markus M. Grabka, DIW Berlin
- 10:50 am** Imputation for the 2002 Employee Retirement Census —

- ♦ Loretta A. McKenzie, U.S. Census Bureau; David Kellerman, U.S. Census Bureau; Terri L. Craig, U.S. Census Bureau
- 11:05 am** Analysis of Divergence between Chained CPI-U and Regular CPI-U for the All\_US-All\_Items Indexes (2000-2002) — ♦ Owen J. Shoemaker, Bureau of Labor Statistics
- 11:20 am** Characteristics of Survival: Longevity of Business Establishments in the Business Employment Dynamics Data — ♦ Amy E. Knaup, Bureau of Labor Statistics
- 11:35 am** Representations of Inequality in the Context of Free Trade and Globalization — ♦ Hugh Peach, H. Gil Peach & Associates LLC; Howard Reichmuth, Scan America; Ryan N. Miller, Scan America
- 11:50 am** The Advanced Technology Program: Evaluation of Best Practices and Results — ♦ Stephanie Shipp, National Institute of Standards and Technology; Connie Chang, Advanced Technology Program; Lorel Wisniewski, ATP
- 12:05 pm** Generalized Beta Functions for the Distribution of Income — ♦ Jungsywan Sepanski, Central Michigan University

**435** **TCC-706**

**▲ Efficient Methods for Incomplete Data – Contributed**  
**SSC**

*Chair(s): Lang Wu, University of British Columbia*

- 10:35 am** Estimating Survival Function under Dependent Truncation — ♦ Lajmi Lakhel, Université Laval
- 10:50 am** Efficient Estimation in the Missing Censoring Indicator Model — ♦ Sundar Subramanian, University of Maine
- 11:05 am** The Cost of Dichotomization: A Case Study — ♦ Yodit Seifu, Novartis Pharmaceuticals
- 11:20 am** Efficient Estimation in Regression Analysis with Missing Data in Two-phase Studies — ♦ Yang Zhao, University of Waterloo; Jerald F. Lawless, University of Waterloo; Donald L. McLeish, University of Waterloo
- 11:35 am** A Robust Transmission/Disequilibrium Test for Incomplete Family Genotypes — ♦ Gulhan Alpargu, University of Massachusetts; Paola Sebastiani, Boston University; Maria M Abad, University of Granada; Marco Ramoni, Harvard Medical School
- 11:50 am** Estimation of Nonlinear Models with Berkson Measurement Errors — ♦ Liqun Wang, University of Manitoba
- 12:05 pm** Floor Discussion

**436** **TCC-715 A**

**Bayesian Estimation – Contributed**  
**Section on Bayesian Statistical Science**

*Chair(s): Sounak Chakraborty, University of Florida*

- 10:35 am** Improved Estimation of Parameters for Linear Models with Respect to the Linex Loss Function — ♦ Marvin H.J. Gruber, Rochester Institute of Technology
- 10:50 am** Optimality of Median Probability Model in Generalized Linear Models — ♦ Samiran Ghosh, University of Connecticut; Dipak K. Dey, University of Connecticut
- 11:05 am** Bayesian Monotone Smoothing — ♦ Farideh H. Dehkordi-Vakil, Western Illinois University
- 11:20 am** Bayesian Estimation of Generalized Lambda Distributions

Thursday

# GENERAL PROGRAM SCHEDULE

- Using MCMC — ♦ Michele A. Haynes, University of Queensland; Robert King, University of Newcastle; Kerrie Mengersen, University of Newcastle
- 11:35 am** Bayesian Estimation of a Covariance Matrix with Applications on Mixed Effects Models — ♦ John S.J. Hsu, University of California, Santa Barbara; Steven C.W. Hsu, National College of Physical Education and Sports
- 11:50 am** A Piecewise Linear Generalized Poisson Regression Model for Longitudinal Data — ♦ John C. Kern, II, Duquesne University
- 12:05 pm** Incorporating Bayesian Prior Information into CART — ♦ Ming Yin, Constella Health Sciences; Eric Harvey, Constella Health Sciences; Patrick W. Crockett, Constella Health Sciences

## 437 TCC-716 A

### Nonparametric Methods — Contributed Biopharmaceutical Section

Chair(s): Alan Y. Chiang, Eli Lilly and Company

- 10:35 am** A Compatible Nonparametric Estimate of Placebo Effect after Estimating the Shift in Multicenter Clinical Trials — ♦ Mushfiqur Rashid, U.S. Food and Drug Administration
- 10:50 am** A SAS Procedure for the Stuart-Maxwell Chi-Square Test and Its Application to Clinical Trials — ♦ Jiang-Ming J. Wu, Forest Research Institute
- 11:05 am** A New Exact Test for Homogeneity of Risk Difference — ♦ Colleen Kelly, San Diego State University; Karen Lo, San Diego State University
- 11:20 am** Some Modifications on the Application of the Exact Wilcoxon-Mann-Whitney Test — ♦ Xiaohui Luo, Merck & Co., Inc.; Xun Chen, Merck & Co., Inc.
- 11:35 am** Bias-corrected Spearman Rank Correlation Coefficient — ♦ William W.B. Wang, Merck & Co., Inc.; Li Huiling, Columbia University; Ivan S.F. Chan, Merck & Co., Inc.
- 11:50 am** The Use of James-Stein Estimators in Tests of Homogeneity of the Risk Difference — ♦ Purnima Rao-Melacini, McMaster University; Colleen Kelly, San Diego State University
- 12:05 pm** Which P Value is Correct? An Application of Randomization Test Procedure in a Lung Transplant Trial — ♦ Yulan Li, Novartis Pharmaceuticals

## 438 TCC-716 B

### Cross-over Designs — Contributed Biopharmaceutical Section

Chair(s): B. Christine Clark, ICON Clinical Research

- 10:35 am** Confounded Cross-over Designs for Factorial Experiments — ♦ Sourav Santra, Northern Illinois University; Sudhir Gupta, Northern Illinois University
- 10:50 am** Estimating the Variance Components in a Replicated Cross-over Study — ♦ Guoyong Jiang, Cephalon, Inc.; Jianrong Wu, St. Jude Children's Research Hospital
- 11:05 am** A Comparative Study of Statistical Methods for Population Bioequivalence in 2x2 Cross-over Design — ♦ Sang-Gue Park, Chung-Ang University; Wan-Youn Yang, Kyungwon University
- 11:20 am** Cross-over Design and Model for Drug Abuse Potential Study — ♦ Ling Chen, U.S. Food and Drug Administration;

- Jun Shao, University of Wisconsin
- 11:35 am** Comparison of Variances of Response Data in a Cross-over Study — ♦ Jiannong Wang, Novartis Pharmaceuticals
- 11:50 am** An Application of Repeated Measures Analysis in a Two-period, Longitudinal Cross-over Study — ♦ Xiaojing Wang, Merck & Co., Inc.; Guanghan F. Liu, Merck & Co., Inc.; Duane Snavely, Merck & Co., Inc.; Al Getson, Merck & Co., Inc.
- 12:05 pm** Nonparametric Confidence Intervals for Tmax: Methods Comparison for 3x3 Cross-overs — ♦ Susan A. Willavize, Pfizer Inc.; Elizabeth A. Morgenthien, Quincunx Group Biostatistical Consulting

## 439 TCC-717 B

### Multiple and Composite Outcomes in Clinical Trials — Contributed

#### Section on Statistics in Epidemiology, Biometrics Section, ENAR

Chair(s): Norman E. Breslow, University of Washington

- 10:35 am** Composite Outcomes in Cluster-randomized Clinical Trials: Experiences from the Community Hypertension Assessment Trial — ♦ Lehana Thabane, McMaster University; Keith O'Rourke, Ottawa Health Research Institute; Janusz Kaczorowski, McMaster University; Larry Chambers, University of Ottawa; Tina Karwalajtys, McMaster University; Cheryl Levitt, McMaster University; William Hogg, University of Ottawa; Lisa Dolovich, McMaster University
- 10:50 am** Alternative Analyses of Risk Factors for Composite Endpoints — ♦ Robert J. Glynn, Brigham & Women's Hospital; Bernard A. Rosner, Harvard Medical School
- 11:05 am** Analysis Strategies for Multiple-outcome Measures — ♦ Sarah Baraniuk, University of Texas; Lemuel A. Moye, University of Texas School of Public Health
- 11:20 am** Mixture Survival Models for Multiply Censored Data with Multiple Outcomes — ♦ Nong Shang, Centers for Disease Control and Prevention
- 11:35 am** Analyzing Health-related Quality-of-life Measures Using General Mixed-data Models — ♦ Alexander de Leon, University of Calgary; Daniel C. Bonzo, Serono, Inc.
- 11:50 am** The Impact of Twin Births on Inference in Randomized Clinical Trials of Pre-term Infants — ♦ Michele L. Shaffer, Pennsylvania State University; Kristi L. Watterberg, University of New Mexico
- 12:05 pm** Floor Discussion

## 440 TCC-715 B

### Bayesian Computation and Data Augmentation — Contributed

#### Section on Bayesian Statistical Science, Section on Statistical Computing

Chair(s): Manuela Buzoianu, Carnegie Mellon University

- 10:35 am** Fully Bayesian Computing — ♦ Jouni Kerman, Columbia University; Andrew Gelman, Columbia University
- 10:50 am** On Real-parameter Evolutionary Monte Carlo Algorithm — ♦ Gopika R. Goswami, Harvard University
- 11:05 am** The Gibbs Sampler for Bayesian Analysis on Censored

- Categorical Data** — ♦ Thomas J. Jiang, National Chengchi University; Li-Wen Ko, Kaohsiung Municipal Vocational High School of Commerce
- 11:20 am** **Ranking the Sources of Numerical Error in MCMC Computations** — ♦ William F. Guthrie, National Institute of Standards and Technology; Hung-kung Liu, National Institute of Standards and Technology; Donald Malec, National Institute of Standards and Technology; Grace Yang, National Institute of Standards and Technology
- 11:35 am** **Hyperplane Inflation for Markov Chain Monte Carlo in Locally Nested spaces** — ♦ Giovanni Petris, University of Arkansas
- 11:50 am** **An Update on the NIST Statistical Reference Datasets for MCMC** — ♦ Hung-kung Liu, National Institute of Standards and Technology; William F. Guthrie, National Institute of Standards and Technology; Donald Malec, National Institute of Standards and Technology; Grace Yang, National Institute of Standards and Technology
- 12:05 pm** **Floor Discussion**

**441** **TCC-711**  
**▲ Fixing the Data: Post-survey Edit and Disclosure Control – Contributed**

**Section on Survey Research Methods**

*Chair(s): Dan Gillman, Bureau of Labor Statistics*

- 10:35 am** **Electronic Data Collection and Data-editing at Data Capture** — ♦ Paula E. Weir, EIA
- 10:50 am** **Implicit Linear Inequality Edits Generation and Error Localization in the SPEER Edit System** — ♦ Maria M. Garcia, U.S. Census Bureau
- 11:05 am** **Using a Quadratic Programming Approach to Solve Simultaneous Ratio and Balance Edit Problems** — ♦ Katherine Thompson, U.S. Census Bureau; James T. Fagan, U.S. Census Bureau; Brandy Yarbrough, U.S. Census Bureau; Donna Hambric, U.S. Census Bureau
- 11:20 am** **Effects of Rounding Continuous Data Using Specific Rules** — ♦ Joe Fred Gonzalez, Jr., National Center for Health Statistics; Jay J. Kim, National Center for Health Statistics; Lawrence H. Cox, National Center for Health Statistics; Myron Katzoff, National Center for Health Statistics
- 11:35 am** **Use of an Audit Program to Improve Confidentiality Protection of Tabular Data at the Bureau of Labor Statistics** — ♦ Randall Powers, Bureau of Labor Statistics; Stephen Cohen, Bureau of Labor Statistics
- 11:50 am** **Evaluating Alternative Disclosure Limitation Strategies for Public Use Data Files: The California Health Interview Survey's Approach** — ♦ M. Leeann Habte, University of California, Los Angeles; Jenny Chia, University of California, Los Angeles
- 12:05 pm** **Limiting the Risk of Data Disclosure by Using Swapping Techniques in Variance Estimation** — ♦ Sylvia M. Dohrmann, Westat; Randy Sitter, Simon Fraser University; Leyla Mohadjer, Westat; Jill M. Montaquila, Westat; Lester R. Curtin, Centers for Disease Control and Prevention

**442** **TCC-718 A**  
**The Internet, Animation, Simulation, Visualization, and Formulation to Improve Teaching – Contributed**

**Section on Statistical Education**

*Chair(s): Mark Bailey, SAS Institute Inc.*

- 10:35 am** **The Evolution of a Revolution: The Impact of the Internet on Statistical Education** — ♦ Cynthia A. Gargano, Merck & Co., Inc.
- 10:50 am** **Creating and Using Online Simulations in Statistical Education and Training** — ♦ Thomas B. Barker, Rochester Institute of Technology
- 11:05 am** **Animations that Demonstrate Statistical Concepts** — ♦ Edward R. Mansfield, University of Alabama; B. Michael Adams, University of Alabama; Michael Conerly, University of Alabama
- 11:20 am** **Demonstrating Multicolinearity: A Spreadsheet Simulation** — ♦ David P. Doane, Oakland University; Mark W. Isken, Oakland University
- 11:35 am** **A Hierarchical System for Analyzing and Formulating Statistical Problems** — ♦ Norma F. Hubele, Arizona State University; George Runger, Arizona State University; Sarah Brem, Arizona State University
- 11:50 am** **Visualizing Confidence Intervals** — ♦ Ronald L. Tracy, Oakland University
- 12:05 pm** **Floor Discussion**

**443** **TCC-718 B**  
**Examples and Tools for Probability and Mathematical Statistics – Contributed**

**Section on Statistical Education**

*Chair(s): Bob Dobrow, Carleton College*

- 10:35 am** **Some Variations of the Hat Problem** — ♦ Marepalli B. Rao, University of Cincinnati; Rupa Mitra, Minnesota State University at Moorhead
- 10:50 am** **The Doomsday Argument: An Intriguing Example of Bayes Theorem** — ♦ Dean Nelson, University of Pittsburgh, Greensburg
- 11:05 am** **Major Portion Analysis** — ♦ Mary S. Fowler, Worcester State College; Joseph B. Kadane, Carnegie Mellon University
- 11:20 am** **Finite Population Probability-generating Functions** — ♦ George R. Terrell, Virginia Polytechnic Institute and State University; Steven J. Kathman, GlaxoSmithKline
- 11:35 am** **Using APPL** — ♦ Diane Evans, Rose-Hulman Institute of Technology
- 11:50 am** **Use of R as a Toolbox for Mathematical Statistics Education** — ♦ Nicholas J. Horton, Smith College; Elizabeth R. Brown, University of Washington
- 12:05 pm** **Statistical Properties of the Slope Mean** — ♦ Lewis VanBrackle, Kennesaw State University

# INDEX OF JSM PRESENTERS

Abecasis, Goncalo	310	Andersen, Torben G.	171	Bakal, Jeffrey A.	90
Abowd, John M.	44, 171	Anderson, Eric C.	59	Baladandayuthapani, Veerabhadran	198
Abramson, Florence H.	313	Anderson, Gary	40	Balakrishnan, Narayanaswamy	271
Abrouk, Nacer E.	347	Anderson, Jennifer J.	101	Balch, Alfred	29
Acharyya, Suddhasatta	194	Anderson, Jon E.	389	Ball, Patrick	103, 250
Acion, Laura	200	Anderson, Keaven M.	12	Ballard, David	411
Acuna, Carmen O.	359	Anderson, Kevin	49, 232	Ballman, Karla	264, 415
Adak, Sudeshna	27	Anderson, Steven A.	66, 358	Balluz, Lina	433
Adamczyk, Brett	90	Anderson-Cook, Christine	92, 211, 331	Banaszak, David	340
Adams, B. Michael	442	Andrew, Michael E.	233	Bandeem-Roche, Karen	102, 390
Adams, John L.	278	Andrews, Douglas M.	430	Bandyopadhyay, Nibedita	189
Adams, Tamara S.	52, 210	Angeles, Gustavo	233	Banerjee, Mousumi	384
Aerts, Marc	27, 86, 190	Angers, Jean-Francois	330	Banerjee, Sudipto	272, 366
Aeschliman, Dana	266	Angle, John	71	Bang, Heejung	423
Affleck, David L.R.	377	Annis, David H.	410	Banjeric, Dragan	228
Afridi, Naseem K.	226	Apanasovich, Tatiyana V.	344	Bankier, Michael	79
Agterberg, Frederik P.	294	Aragon-Logan, Elvessa	162	Banks, David	18, 32, 61, 247, 250
Aguirre, Victor	275	Arani, Ramin B.	343	Baraniuk, Sarah	439
Ahluwalia, Jasjit	273	Aras, Gary	29, 368	Barber, Jarrett J.	179
Ahmed, Yahia Z.	334	Arbogast, Patrick G.	134, 164, 246, 357	Barker, Thomas B.	442
Ahn, Hongshik	112	Archer, Kellie J.	111	Barlow, William	219
Ahsanullah, Mohammad	19	Aref, Susanne	117	Barnard, John	415
Aitkin, Murray	414	Arena, Vincent C.	81	Barnes, Candice A.	400
Ajmani, Vivek B.	316	Arens, Zac	165	Barnes, Sunni A.	121
Akinsete, Alfred A.	410	Armstrong, Pat	31	Barnwell, Beth G.	162
Akman, Olcay	408	Armstrong, Robert	65	Baron, Michael	230, 304
Akritas, Michael G.	341	Arndt, Stephan	200	Baron, Paul A.	314
Al-Khalidi, Abdul S.	81	Arnold, Barry C.	93, 180	Barr, John	427
Al-Nachawati, Hicham	303	Arora, Vipin K.	257, 307, 402	Barrett, Bruce	253, 425
Alber, Susan A.	15	Arroyo, Cassandra	95	Barrios, Pilar	306
Albert, Donald	314	Ash, Arlene S.	374	Barrowman, Nicholas J.	218
Albert, James	68, 297	Ashby, Avery	49	Barry, Sarah J.E.	157
Albright, Keith	23	Asher, Jana	152, 216, 292, 327	Bartlett, Randy	24
Albright, Victoria	105	Asiala, Mark E.	23, 279	Barton, Patrick J.	7
Aldworth, Jeremy	387	Astatkie, Tessema	137, 308	Basak, Indrani	271
Aleong, John	429	Atherton, Pamela	148	Basak, Prasanta	271
Ali, Rebecca A.	187	Atkinson, Anthony C.	232	Baskin, Robert M.	77, 225, 399
Aliaga, Martha	254	Atshaves, Barbara	225	Basu, Asit	49
Allen, Andrew S.	382, 395	Attie, Alan	200, 326	Basu, Sabyasachi	432
Allen, Elaine	90	Auer, Richard E.	345	Basu, Sanjib	179
Allen, Jeff M.	295	Auguste, Anna	118	Batcher, Mary K.	204, 387
Allen, Walter R.	103	Austin, Peter C.	83, 238	Bathke, Arne C.	341
Allenby, Greg M.	299	Aviles, Ana I.	205	Batra, Rajeev	203
Allison, David B.	326	Ayers, Gregory D.	164	Battaglia, Michael P.	183
Allore, Heather G.	157	Babu, G. Jogesh	233	Bauder, Donald M.	100
Almudevar, Anthony	271	Bacon, Lynd D.	325	Bauer, Peter	142
Alonso, Ariel	163	Bada, Henrietta	152	Bayoumi, Ahmed	109
Alpargu, Gulhan	435	Badgett, M.V. Lee	292	Beaghen, Michael	309
Altaye, Mekibib	226	Bae, Kyoungwha	198	Beasley, T. Mark	191
Altman, Barbara M.	321	Bae, Suk Joo	48	Beaumont, Jennifer L.	233
Altman, Naomi S.	223	Baek, InYoung	407	Beck, Christopher A.	50, 383
Altman, Rachel M.	82, 226	Bai, Steven G.	22	Beck, Vicki	21
Alvarez, Enrique E.	118	Baier, Patrick D.	21	Becker, Betsy J.	93
Alvey, Wendy L.	267	Bailar, Barbara	61, 367	Becker, Dorothy J.	81
Alvo, Mayer	341	Bailar, John C.	103	Becker, Sue	199
Amemiya, Yasuo	102	Bailer, A. John	81	Beckler, Daniel	197, 387
Amirdjanova, Anna	59, 379	Bailey, Barbara A.	231	Bédard, Mario	160
Ammann, Caspar	94	Bailey, Kent R.	110	Begg, Colin B.	72, 184
Amos, Christopher I.	45	Bailey, Leroy	76	Behseta, Sam	89
Ananthanarayanan, Vijayalakshmi	385	Bailey, Mark	442	Bekele, Benjamin N.	263, 333
Anbari, Frank T.	211	Bailey, Ted B.	117	Béland, Yves	160, 433
Andersen, Per K.	283	Bailie, Lorna	321	Belin, Thomas R.	15, 100, 150, 194, 409



Belitskaya-Levy, Ilana	148	Bobashev, Georgiy	88	Brodeur, Marie	388
Bell, Robert	206	Bodner, Todd E.	90	Brodie, Peter	213
Bell, William R.	73, 108, 369	Boehnke, Michael	310	Broemeling, Lyle	302
Belle, Steven H.	424	Boer, Rob	328	Broman, Karl W.	43
Bellhouse, David	360	Bogacka, Barbara	163	Brooks, Gordon P.	345
Beltramo, Mark	192, 203	Bogle, Margaret	28	Brooks, Robert	287
Bemis, Kerry G.	274	Bognar, Matthew	217	Brooks, Steve	168
Benattia, Isma	29	Bokka, Sankar	225	Broughman, Stephen P.	400
Bender, Stefan	159	Bond, Marjorie E.	248	Brown, E. Richard	197
Benner, Rebecca J.	338	Bondell, Howard	303, 430	Brown, Elizabeth R.	443
Bensmail, Halima	188	Bonetti, Marco	323, 384	Brown, Emery N.	11
Bentler, Peter M.	53	Bonham-Carter, Graeme	294	Brown, G. Gordon	162, 327
BÉrard, HÉlÈne	213	Bonzo, Daniel C.	156, 439	Brown, James J.	206
Bergan, Raymond C.	274	Boone, Edward L.	298, 331	Brown, Lawrence D.	138, 255
Berger, James	32	Boos, Dennis D.	190	Brown, Martin L.	328
Berger, Roger L.	176	Booth, David E.	340	Brown, Morton B.	405
Bergquist, Mandy	271	Booth, Stephane E.	340	Brown, Timothy	146
Berhane, Indrias G.	378	Bordley, Robert	203, 325	Browne, Timothy	392
Berhane, Kiros	56	Borhani, Gholam H.	431	Brun, Marcel	190
Berk, Marc	356	Borkowf, Craig B.	112	Bruneau, Julie	303
Berke, Olaf	332	Borkowski, John J.	211	Bryant, Richard R.	277
Berlin, Jesse	63	Boroto, Dan	153	Buchanan, Patricia	280
Berliner, L. Mark	208	Borror, Connie	92	Bui, Minh	417
Bernard, Steve	64	Bortnick, Steven M.	85	Bull, Dick J.	233
Berrado, Abdelaziz	304	Boscardin, Walter J.	15	Bull, Shelley	310
Berry, Donald	142, 164	Bose, Jonaki	165, 216	Bullock, Bronson	298, 377
Berry, Sandra	412	Bose, Sudip	303	Bulpitt, Ken J.	101
Berry, Scott M.	256, 297	Boucher, Thomas R.	57	Bulutuglo, Dursun	326
Berthelot, Jean-Marie	321	Boudreau, Jean-RenÉ	71	Bunea, Florentina	118
Bertolet, Marianne	295	Bowerman, Bruce	345	Bura, Efstathia	306
Besag, Julian	208	Bowie, Chester E.	44	Burcham, Joseph A.	388
Betensky, Rebecca A.	343	Bowyer, John F.	394	Burchinal, Peg	273
Beunckens, Caroline	156	Boyd, Monica	277	Burke, Murray D.	426
Beyene, Joseph	114	Boyett, James	219, 314	Burkom, Howard	392
Beyene, Negasi	409	Boyle, Kerrie E.	69	Burman, Carl-Fredrik	338
Bhattacharyya, Amit	274, 318	Bozdogan, Hamparsum	158, 188, 376	Burnham, Alison J.	7
Bhaumik, Amitabha	192	Bozzette, Sam	412	Burnham, Thomas	75
Bickel, David R.	155	Brackstone, Gordon	181	Burns, Allison	23
Bickel, Peter	425	Bradley, Ralph	406	Bursac, Zoran	303
Biemer, Paul P.	162, 327	Bradlow, Eric T.	192	Burt, Catharine W.	403
Biggeri, Luigi	3, 280	Bradstreet, Thomas	70, 120, 235	Bushar, Harry F.	182
Bilder, Christopher R.	200, 410	Brady, Thoms M.	152	Butar Butar, Ferry	107, 215, 314
Billor, Nedret	54	Brafman, Rebecca E.	345	Butler, Jeff	186
Binder, David A.	244, 391	Brammer, Lynnette	392	Buttrey, Samuel E.	186
Bingham, Derek R.	118, 360	Branscum, Adam	332	Buyske, Steven G.	43
Bini, Matilde	280	Braun, John	268	Buzaianu, Elena M.	307
Binkowitz, Bruce	305	Braun, Willard J.	146	Buzoianu, Manuela	381, 440
Birn, First	27, 381	Braunstein, Andrew W.	431	Byers, Amy L.	157
Birtwhistle, Richard	164	Braverman, Amy	62	Byrne, Colene	83
Bishop, Joseph	287	Brem, Sarah	442	Cadarso-Suarez, Carmen	27
Bissantz, Nicolai	51	Bremer, John	149	Cahoon, Lawrence S.	76
Biswas, Atanu	330	Brenneman, William A.	92	Cai, Gengqian	86
Blackwell, Debra	321	Breslow, Norman E.	395, 439	Cai, Jianwen	169, 175
Blass, Barbara	76	Brick, J. Michael	23, 183, 204	Cai, Tianxi	416
Blatchford, Patrick	264	Brick, Pat D.	411	Cai, Yaping	273
Blewett, Lynn A.	76	Briggs, Andrew H.	109	Calabrese, Timothy	170
Blizzard, Leigh	382	Briggs, William	365	Calamia, Vito	29
Blom, Valerie	345	Brijs, Tom	427	Calder, Catherine A.	85, 373
Blower, Sally	424	Brillinger, David	146, 173	Call, Kathleen	197
Blumberg, Carol J.	3	Brimacombe, Michael B.	414	Callens, Marc	80
Blumberg, Stephen J.	183	Briscoe, Richard	318	Cambon, Alexander	56
Blumerman, Lisa M.	267	Bristol, David R.	112	Cameron, Trudy A.	21

# INDEX OF JSM PRESENTERS

Campbell, Jared	.90	Chan, Ping-Shing	.119	Cheng, Bin	.339
Campbell, Stephen	40, 411	Chan, Victor	.231	Cheng, Cheng	88, 111
Canada, Andrea L.	.233	Chan, Wenyaw	.302	Cheng, Ching-Shui	.421
Canarella, Giorgio	.406	Chance, Beth	.375	Cheng, Jianfeng	.265
Canete, Pilita	.368	Chandhok, Promod	.412	Cheng, Jing	.345
Cannon, Ann	.375	Chaney, Bryce	.205	Cheng, Jing	.265
Cannon, Lisa	.90	Chang, Chung-Chou H.	.144	Cheng, Kuang Fu	.55
Cantoni, Eva	.224	Chang, Connie	.434	Cheng, Qiuming	.294
Cantor, David	.411	Chang, Fu-Chuen	.230	Cheng, Su-Chun	.416
Cantor, James	.57	Chang, Hsing-Yi	.26	Cheng, Tsung-Chi	.376
Cantor, Scott B.	.263	Chang, Hui S.	.24	Cheng, Yi	.219
Cantwell, Patrick	.213, 260	Chang, i-Lok	.26	Chesher, Andrew	.137
Canty, Angelo J.	.362	Chang, Jane Y.	.423	Cheung, Ken	.233
Cao, Jin	.408	Chang, Myron N.	.219	Chhab-Alperin, Norma	.178
Cao, Jing	.217	Chapman, Judy-Anne	.31	Chhikara, Raj S.	.389
Cao, Ricardo	.420	Charnigo, Richard J.	.53	Chi, George	.291
Cao, Yanrong	.308	Chatt, Cindy	.411	Chi, Yueh-Yun	.312
Capizzi, Thomas	.29	Chatterjee, Nilanjan	.55, 72, 184	Chi, Zhiyi	.11, 59
Cappelleri, Joseph C.	63, 126	Chatterjee, Sangit	.253	Chia, Jenny	.58, 441
Caprioli, Joseph	.424	Chatterjee, Singdhansu	.172, 429	Chiang, Alan Y.	.380, 437
Cardinale, Bradley J.	.275	Chattopadhyay, Somesh	.343	Chib, Siddhartha	.147, 212
Cargile, Benjamin J.	.88	Chauhan, Vijay	.156	Chin, Foong Ling	.16
Carides, George W.	.283	Che, Anney	.184	Chin, George	.111
Carlin, Brad	208, 272, 366	Che, Ping	.227	Chinchilli, Vernon M.	.264
Carlin, David	.338	Chen, Aiyou	.425	Chiorazzi, Nicholas	.90
Carlin, John B.	.286	Chen, Bingshu E.	.184, 426	Chiou, Jeng-Min	.2
Carlson, Barbara L.	.105	Chen, Bor-Chung	.404	Chipman, Hugh	.96, 361
Carlson, Lynda	.138	Chen, Chung	.57	Chiswell, Karen E.A.	.404
Carlson, Ralph	.120	Chen, Cong	.156, 339	Chiu, Chris	.218
Carlson, Richard R.	.126	Chen, Haiyan	.56	Chiu, Kim	.73
Carmack, Patrick S.	.78	Chen, Haiying	.180	Chiu, Pei-Lu	.150
Carolan, Christopher A.	.304	Chen, Hongzi C.	.305	Cho, Eungchun	.389
Caroni, Chrys	.54	Chen, Hubert J.	.116	Cho, Iksung	.194, 221
Carpenter, David O.	.224	Chen, James J.	.155, 394	Cho, Moon Jung	.58, 399
Carpenter, Mark	.114, 189	Chen, Jiahua	.310	Choi, Hyunyoung	.232
Carriquiry, Alicia	.227	Chen, Jie	.119, 274	Choi, Jai W.	.172, 215, 342
Carroll, Margaret D.	.160	Chen, Jinbo	.55	Choi, Taeryon	.121
Carroll, Raymond J.	.113, 198, 344, 405, 415	Chen, Kuang-Ho	.339	Cholette, Pierre	.73
Carter, Christopher K.	.89	Chen, Lihua	.190	Choudhry, G. Hussain	.412
Carter, Hans	.259	Chen, Ling	.438	Chouinard, Aline	.21
Carter, Randy L.	.312	Chen, Meng	.37, 200	Chow, Mosuk	.120
Carver, Robert H.	.154	Chen, Michael	.121	Christ, Aaron M.	.173
Casella, George	.22	Chen, Min	.158	Christensen, Deborah L.	.382
Casselberry, Jay H.	.403	Chen, Ming-Hui	.74, 124, 192, 236, 266, 348	Christensen, Ronald	.258
Castellano, Rosalia	.371	Chen, Pinyuen	.307	Christiansen, Cindy L.	.295
Castle, John	.88	Chen, Qingxia	.378	Christie, Jason D.	.90
Catlin, Sandra N.	.417	Chen, Ray-Bing	.218	Christopher, Kaiser	.405
Cavanaugh, Joseph	.230	Chen, Robert T.	.392	Chromy, James R.	.387
Cebul, Randall D.	.177	Chen, Shande	.56	Chu, Adam	.52
Cecchetti, Stephen G.	.234	Chen, Shijie	.69, 286	Chu, Haitao	.20, 228
Cecco, Kevin	.10, 181	Chen, Shu-Chuan	.104	Chu, LiPing	.165
Cecil, Burchfiel	.233	Chen, Shun-Yi	.158, 404	Chu, Tzi-Ming	.274
Ceria, Clementina	.56	Chen, Shuquan	.200	Chuang-Stein, Christy	.70
Cha, Stephen S.	.110	Chen, Wei	.150	Chukova, Stefanka	.48
Chacko, Easaw	.216	Chen, Wen-Pin	.264	Chung, Hie-Choon	.404
Chakraborty, Hrishikesh	.273	Chen, William W.S.	.233	Chung, Jain	.156
Chakraborty, Sounak	.198, 201, 436	Chen, Xun	.29, 119, 437	Chung, Moo K.	.188
Chambers, John	.284	Chen, Ying	.407	Churchill, Gary A.	.326
Chambers, Larry	.439	Chen, Ying Qing	.416	Cicconetti, Greg	.311
Chambers, Raymond	.26, 422	Chen, Younan	.331	Cipfl, Jennifer	.345
Chan, Ivan S.F.	.119, 437	Chen, Zhao-Guo	.178	Clark, Allison	.270
Chan, Kung-sik	.87, 161, 222	Chen, Zhen	.397	Clark, B. Christine	.438

Clark, Cynthia Z.F. . . . .	3, 370
Clark, III, Russell D. . . . .	297
Clark, James S. . . . .	179
Clark, Jon R. . . . .	309
Clark, W. Scott . . . . .	382
Clarke, Bertrand S. . . . .	46
Clarke, William R. . . . .	50
Clausing, Don P. . . . .	251
Clayton, Jenny L. . . . .	191
Clayton, Murray . . . . .	16
Cleary, Patricia . . . . .	302
Clegg, Limin . . . . .	200
Clemente, Christine . . . . .	29
Clements, Philip J. . . . .	101
Cleveland, William P. . . . .	108
Cline, Daren B.H. . . . .	57
Clothiaux, Eugene . . . . .	62
Clusen, Nancy A. . . . .	340, 411
Clyde, Merlise . . . . .	46
Cobb, George W. . . . .	254
Cochran, James J. . . . .	414
Coffey, Christopher S. . . . .	191, 220
Coffey, Laura A. . . . .	120
Cohen, Alan . . . . .	150
Cohen, Guy . . . . .	29
Cohen, Joel W. . . . .	77
Cohen, Michael L. . . . .	61
Cohen, Michael P. . . . .	105, 323
Cohen, Stephen . . . . .	23, 181, 399, 441
Cohen, Steven B. . . . .	9, 391
Cohen, William W. . . . .	171
Cohen-Freue, Gabriela . . . . .	54
Colditz, Graham A. . . . .	328
Colley Gilbert, Brenda . . . . .	342
Collings, Patti B. . . . .	280, 345
Collins, John . . . . .	54
Colugnati, Fernando A.B. . . . .	90
Comulada, Warren S. . . . .	15
Condon Goodwin, Teri . . . . .	409
Conerly, Michael . . . . .	442
Cong, Xiuyu . . . . .	200
Conibere, Richard . . . . .	59
Conklin, W. Michael . . . . .	116
Conlon, John C. . . . .	257
Connett, John E. . . . .	402
Connors, Alanna . . . . .	11
Conron, Kerith J. . . . .	292
Constantine, Kenneth . . . . .	345
Constantz, George . . . . .	287
Conti, David . . . . .	45
Cook, Krista . . . . .	401
Cook, Michael . . . . .	351
Cook, Richard J. . . . .	82, 169
Cook, Samantha R. . . . .	212
Cooksley, Catherine . . . . .	263
Copeland, Kennon R. . . . .	229, 399
Cordell, Ralph . . . . .	75
Cordes, Dietmar . . . . .	303
Corey, Paul . . . . .	191, 310
Corner, Bruce A. . . . .	7
Couper, Mick P. . . . .	149, 195, 355
Cox, Adrian . . . . .	428
Cox, Brenda G. . . . .	41, 245
Cox, Christine S. . . . .	293
Cox, Dennis D. . . . .	263
Cox, Lawrence H. . . . .	23, 172, 229, 441
Cox, Nancy . . . . .	392
Craig, Bruce A. . . . .	410
Craig, Terri L. . . . .	434
Craigmile, Peter F. . . . .	20, 299
Craiu, Radu V. . . . .	11
Crank, Keith N. . . . .	176
Crankshaw, Mark . . . . .	58, 342
Creecy, Robert . . . . .	158
Creel, Darryl V. . . . .	58
Crespi, Catherine . . . . .	15, 424
Cressie, Noel . . . . .	20
Crimin, Kimberly . . . . .	307
Cripps, Ed . . . . .	89
Crocetta, Corrado . . . . .	20, 424
Crockett, Patrick W. . . . .	436
CroTTY, Michael T. . . . .	120
Crouse, Chadd . . . . .	260
Croux, Christophe . . . . .	80
Crowe, Brenda J. . . . .	156
Crowley, Melinda . . . . .	103
Csillag, Ferenc . . . . .	294, 366
Cui, Wen . . . . .	89
Culp, William C. . . . .	121
Cumberland, William G. . . . .	424
Cummins, Kevin M. . . . .	222
Curb, J. David . . . . .	56
Curry, Thomas F. . . . .	65
Curtin, Lester R. . . . .	160, 391, 441
Cynamon, Marcie . . . . .	183
Czado, Claudia . . . . .	192
Dagne, Getachew A. . . . .	381
D'Agostino, Sr., Ralph B. . . . .	141, 413
Dagum, Camilo . . . . .	371
Dagum, Estela B. . . . .	73, 214
Dagum, Paul . . . . .	214
Dahlhamer, James . . . . .	165
Dahlin, Brian . . . . .	159
Dai, Lanting . . . . .	69
Dailey, Megan C. . . . .	47
Damaraju, C. V. . . . .	193
Damien, Paul . . . . .	60
Damle, Rajendra . . . . .	90
Daniels, John E. . . . .	410
Daniels, Michael . . . . .	202
Danielsson, Stig . . . . .	149
Dara, Manooch . . . . .	11
Darken, Patrick . . . . .	119
Das, Abhik . . . . .	152
Dasgupta, Abhijit . . . . .	166
Datta, Rupa . . . . .	355
Datta, Somnath . . . . .	363, 427
Datta, Sujay . . . . .	91, 200, 372
Datta, Susmita . . . . .	363
Davern, Michael . . . . .	76
David, Martin H. . . . .	197
Davidian, Marie . . . . .	143, 151
Davidson, Gestur . . . . .	76
Davies, Kalatu . . . . .	263
Davies, Simon . . . . .	230
Davis, Gary A. . . . .	314
Davis, Justin W. . . . .	428
Davis, Karen . . . . .	342
Davis, Robert . . . . .	392
Davis, Roger B. . . . .	117
Davis, Xiaohong M. . . . .	87
Dawson, Deborah V. . . . .	191
Dawson, Neal V. . . . .	177
de Alba, Enrique . . . . .	145
de Andrade, Mariza . . . . .	8
de Falguerolles, Antoine . . . . .	319
De Gooijer, Jan G. . . . .	188
De Gruttola, Victor G. . . . .	235
de la Cruz-Mes̃a, Rolando . . . . .	386
de Leon, Alexander . . . . .	439
De Luca, Giovanni . . . . .	151
de Miguel, Victor . . . . .	308
De Oliveira, Victor . . . . .	20, 202
de Wolf, Virginia A. . . . .	267, 403
Dean, Angela . . . . .	127, 239, 337, 350
Deaver, Karen D. . . . .	400
DeBell, Matthew . . . . .	335
Dech, Spencer . . . . .	121
Degnan, James H. . . . .	104
Dehkordi-Vakil, Farideh H. . . . .	30, 436
DeLeon, Mony J. . . . .	157
Delongchamp, Robert R. . . . .	394
Delorey, Mark . . . . .	47
DeLucia, Evan H. . . . .	117
DeMets, David L. . . . .	86
Demidenko, Eugene . . . . .	384
Deng, Chunqin . . . . .	156, 221
Deng, Dianliang . . . . .	330
Deng, Min . . . . .	406
Dennis, J. Michael . . . . .	21, 411
Denniston, Maxine M. . . . .	412
Derom, Catherine . . . . .	166, 233
DeSale, Sameer . . . . .	152
DeSanti, Susan . . . . .	157
DeShazo, J. R. . . . .	21
Desiati, Paolo . . . . .	303
Desrosiers, Mark F. . . . .	157
Dethlefsen, Claus . . . . .	6
Detke, Michael . . . . .	405
Detlefsen, Ruth E. . . . .	213
Deutsch, Reena . . . . .	246
Devanarayan, Viswanath . . . . .	42, 338
Dever, Jill A. . . . .	260
DeVerteuil, Geoffrey . . . . .	344
Devine, Owen J. . . . .	17, 344
DeWoody, Kimberly L. . . . .	368
Dey, Dipak K. . . . .	74, 192, 227, 436
Dey, Jyotirmoy . . . . .	194
Dhar, Vasant . . . . .	253
Di Fonzo, Tommaso . . . . .	73
Diamond, Ian . . . . .	206
Diaz-Tena, Nuria . . . . .	28, 310, 399
Dick, Peter . . . . .	215
Dickey, Simon . . . . .	18
Dielman, Terry E. . . . .	4, 137
Dienstfrey, Stephen J. . . . .	313

# INDEX OF JSM PRESENTERS

Diffendal, Gregg J. . . . .	79	Duty, Paul E. . . . .	50	Farnsworth Riche, Martha . . . . .	269
DiGaetano, Ralph . . . . .	382	Duval, Marie-Claude . . . . .	52	Faxon, Don . . . . .	64
Dignam, James J. . . . .	283	Dwyer, Greg . . . . .	47	Fay, Michael P. . . . .	226
Dillman, Don A. . . . .	165	Dyson, Greg . . . . .	88	Fay, Robert E. . . . .	100
Dimler, E. Ann . . . . .	345, 433	Eakin, Mark E. . . . .	275, 308	Fearn, Dean H. . . . .	314
Dingus, Cheryl . . . . .	337	Easley, Kirk . . . . .	320	Fears, Thomas R. . . . .	391
DiRienzo, Greg . . . . .	223	Eavey, Cheryl . . . . .	176	Feder, Moshe . . . . .	229
DiSogra, Charles . . . . .	41, 165, 197	Ebneshahrashoob, Morteza . . . . .	304	Feder, Paul I. . . . .	233
Dixon, John . . . . .	186, 210	Eby, L. Marlin . . . . .	136	Feldman, Brian M. . . . .	101
Dixon, Philip . . . . .	130, 332	Echt, Alan . . . . .	314	Feldman, Maryann . . . . .	40
Dmitrienko, Alexei . . . . .	29, 318	Edland, Steven D. . . . .	56	Feldpausch, Roxanne . . . . .	108, 159, 329
Dmitriev, Yuriy G. . . . .	271	Edmunds, Jeffrey . . . . .	345	Fellegi, Ivan P. . . . .	3
Do, Kim-Anh . . . . .	8	Edwards, Brad . . . . .	277	Feng, Sheng . . . . .	274
Doane, David P. . . . .	442	Edwards, Lloyd J. . . . .	224	Fenwick, Elisabeth . . . . .	109
Dobbin, Kevin K. . . . .	114	Edwards, Sherman . . . . .	41, 197	Ferguson, Gwyn R. . . . .	195
Dobrow, Bob . . . . .	443	Edwards, Thomas C. . . . .	261	Fernandez-Villaverde, Jesus . . . . .	14
Docker, Susan D. . . . .	178	Efron, Bradley . . . . .	139, 167, 282	Ferrante, Maria R. . . . .	107
Doerge, Rebecca W. . . . .	200	Egleston, Brian L. . . . .	177, 265	Ferraro, David L. . . . .	23
Doganaksoy, Murat . . . . .	24	Einmahl, John H.J. . . . .	141	Ferraz, Cristiano . . . . .	412
Dohrmann, Sylvia M. . . . .	441	Ekstrom, M. . . . .	287	Fescina, Ryan M. . . . .	401
Dole, Nancy . . . . .	102	Elder, Bret D. . . . .	47	Fetter, Matthew J. . . . .	260
Dolovich, Lisa . . . . .	439	Elliott, Michael R. . . . .	260, 397	Feuer, Eric . . . . .	328
Dominguez, Manuel A. . . . .	275	Elnitski, Laura . . . . .	223	Feurer, Irene D. . . . .	21
Donehoo, Ralph . . . . .	233	ElSaadany, Susie . . . . .	66	Fidler, Matthew L. . . . .	259
Donnalley, Gia F. . . . .	3	El-Shaarawi, Abdel H. . . . .	294	Field, Christopher . . . . .	173
Donnelly, Johnathan . . . . .	116	Elting, Linda . . . . .	263	Fields, Paul J. . . . .	280, 345
Donoho, David L. . . . .	167	Eltinge, John L. . . . .	59, 290, 399	Fienberg, Stephen E. . . . .	172, 227, 327
Dorazio, Robert M. . . . .	179	Emerson, John D. . . . .	340	Fieuws, Steffen . . . . .	385
Dorfman, Alan H. . . . .	196	Emerson, John W. . . . .	414	Filep, Krisztina . . . . .	71
Dorman, Karin S. . . . .	15	English, Edward . . . . .	195	Filzmoser, Peter . . . . .	294
Dorn, Joan . . . . .	233	Epps, Thomas W. . . . .	408	Finamore, John M. . . . .	196, 400
Doros, Gheorghe . . . . .	426	Epstein, Michael P. . . . .	395	Finch, Holmes . . . . .	276
Dougherty, Deborah D. . . . .	77	Erbacher, Robert . . . . .	280	Findley, David F. . . . .	57, 73, 108
Dougherty, Edward R. . . . .	190	Erickson, Janelle . . . . .	29	Fine, Jason . . . . .	283, 393
Dowd, Michael F. . . . .	63	Erkanli, Alaattin . . . . .	200	Finkel, Barbara B. . . . .	90
Downer, Robert . . . . .	225	Ernst, Lawrence R. . . . .	196, 279	Fisch, Gene S. . . . .	166, 233
Downs, Kathy . . . . .	430	Ernst, Thomas . . . . .	187	Fisher, Diane . . . . .	27
Downs, Tom . . . . .	430	Escobar, Luis . . . . .	251	Fisher, Marian R. . . . .	402
Doyle, Pat . . . . .	349	Espisito, James . . . . .	183	Fisher, Robin C. . . . .	369
Drake, Amy J. . . . .	412	Ettner, Susan L. . . . .	295	Fisk, Charles . . . . .	314
Drane, J. Wanzer . . . . .	382	Evans, Diane . . . . .	443	Fitch, David J. . . . .	21
Drton, Mathias . . . . .	93	Evans, Irene L. . . . .	159	Fitzmaurice, Garrett M. . . . .	157
Drum, Melinda L. . . . .	152	Evans, Michael . . . . .	255, 324	Flanders, W.D. Dana . . . . .	382
Duan, Fenghai . . . . .	53	Evans, Richard . . . . .	332	Flemming, Joanna . . . . .	173
Duan, Yuyan . . . . .	231	Evans, Scott R. . . . .	82	Flores-Cervantes, Ismael . . . . .	86
Duchesne, Pierre . . . . .	52, 308	Evans, Thomas . . . . .	178	Flournoy, Nancy . . . . .	50, 219
Duckworth, William M. . . . .	345	Ezzati-Rice, Trena M. . . . .	77, 399	Fokoue, Ernest P. . . . .	46
Duddek, Christopher . . . . .	71	Fabrizi, Enrico . . . . .	107, 278	Folsom, Ralph . . . . .	28, 215, 260
Dudoit, Sandrine . . . . .	194	Faes, Christel . . . . .	27	Fong, Duncan K.H. . . . .	192
Dueck, Amylou . . . . .	148	Fagan, James T. . . . .	401, 441	Foran, Jeffery A. . . . .	224
Duff, Martha . . . . .	159	Fahimi, Mansour . . . . .	433	Forsberg, Laura . . . . .	323
Dufour, Catherine . . . . .	213	Falk, Eric . . . . .	159, 275	Forsman, Gosta . . . . .	149
Dufour, Johane . . . . .	160	Famoye, Felix . . . . .	233	Fortier, Susie . . . . .	213
Dukic, Vanja .47, 59, 90, 121, 200, 233, 314, 345	345	Fan, Guangzhe . . . . .	253, 303	Fortin, Marie-Josée . . . . .	366
Duncan, George . . . . .	418	Fan, Jianqing . . . . .	2, 175	Fotheringham, Nick . . . . .	368
Duncan, Kristin . . . . .	299	Fan, Juanjuan . . . . .	381	Foulkes, Mary A. . . . .	257
Dunson, David B. . . . .	102, 190, 289	Fan, Ming-Yu . . . . .	409	Fouque, Jean-Pierre . . . . .	84
Dunteman, George H. . . . .	69	Fan, Xiaoyin . . . . .	86	Fournier, Baptiste . . . . .	398
Dupont, William D. . . . .	134	Fan, Zhaozhi . . . . .	113	Fowler, Gary . . . . .	314, 428
Durazo-Arvizu, Ramon A. . . . .	83	Fang, Hongbin . . . . .	305	Fowler, Mary S. . . . .	443
Durbin, Blythe . . . . .	223	Farber, Kevin A. . . . .	210	Fowler, Robert G. . . . .	17
Dusch, Gianna . . . . .	313	Farewell, Daniel M. . . . .	414	Frame, Bronwyn . . . . .	227

Franceschini, Cinzia . . . . .	20	Garrett, Robert G. . . . .	294	Gjertson, David . . . . .	117
Frank, John . . . . .	346	Garvin, William . . . . .	433	Gleser, Leon J. . . . .	93
Frankel, Martin . . . . .	412	Gastwirth, Joseph L. . . . .	38, 110, 389	Glickman, Hagit . . . . .	140
Frankel, Paul H. . . . .	148	Gates, Gary J. . . . .	292	Glickman, Mark E. . . . .	166, 413
Franklin, Christine A. . . . .	39, 209	Gauderman, William . . . . .	45	Glidden, David V. . . . .	144
Frechtel, Pete . . . . .	58	Gaudette, Leslie A. . . . .	31	Glosup, Jeffrey . . . . .	232
Freeman, Daniel . . . . .	302	Gaughan, Christina A. . . . .	90	Glynn, Robert J. . . . .	341, 439
Freeman, Ellen . . . . .	177	Gault, Fred . . . . .	138	Gmoser, Tracy . . . . .	290
Freeman, Jean . . . . .	302	Gauss, C. Heath . . . . .	223	Godfrey, Ayca O. . . . .	92
Fresen, John L. . . . .	50	Gauthier, Sylvie . . . . .	79	Godwin, Marshall . . . . .	164
Frey, Daniel D. . . . .	331	Gaydos, Brenda L. . . . .	339	Goebel, Jan . . . . .	279
Frey, Jesse . . . . .	180, 201	Gbur, Philip . . . . .	229	Goedegebuure, Robert . . . . .	285
Frick, Joachim R. . . . .	279, 434	Gear, James C. . . . .	16	Goel, Rajiv . . . . .	28
Fricker, Ron . . . . .	65, 135, 247	Gee, Geoffrey M. . . . .	369	Golan, Amos . . . . .	275
Fridgeirsdottir, Kristin . . . . .	308	Gel, Esma S. . . . .	304	Gold, Richard H. . . . .	101
Friedman, Esther M. . . . .	411	Gel, Yulia R. . . . .	110, 303	Goldberg, Judith D. . . . .	148
Friedman, Lawrence . . . . .	257	Gelfand, Alan E. . . . .	32, 124, 179, 258, 272, 366	Goldin, Jonathan . . . . .	117
Friendly, Michael . . . . .	319	Gelman, Andrew . . . . .	6, 168, 286, 333, 386, 440	Goldman, Robert . . . . .	185
Froelich, Amy G. . . . .	345	Gennings, Chris . . . . .	259	Goldsmith, Charles H. . . . .	119, 336
Fu, Wenjiang J. . . . .	415	Gentle, James E. . . . .	68, 116, 187	Goldstein, Arnold . . . . .	267
Fu, Yuejiao . . . . .	310	Gentleman, Jane F. . . . .	321	Golinelli, Daniela . . . . .	424
Fuchs, Barry . . . . .	90	Gentleman, Robert . . . . .	413	Golm, Gregory T. . . . .	120
Fuentes, Montserrat . . . . .	85, 208, 366	Genton, Marc G. . . . .	20, 151, 324	Golnabi, Saeed . . . . .	345
Fukuda, Keiji . . . . .	392	George, Barbara J. . . . .	386	Gomatam, Shanti . . . . .	418
Fulcomer, Mark C. . . . .	191	George, Edward I. . . . .	14	Gomes, Carla . . . . .	377
Fuller, Wayne A. . . . .	140	George, Julie . . . . .	384	Gomes, Tony . . . . .	411
Fullerton, Jr., Thomas M. . . . .	308	George, Stephen . . . . .	148, 423	Goncalves, Silvia . . . . .	4
Funk, Carolyn . . . . .	335	George, Varghese . . . . .	191, 326	Gonen, Mithat . . . . .	82
Furrer, Reinhard . . . . .	398	Gershunskaya, Julie B. . . . .	426	Gonzalez, Jr., Joe Fred . . . . .	196, 229, 277, 441
Furst, Dan E. . . . .	101	Gersteva, Arina . . . . .	165	Gonzalez-Manteiga, Wenceslao . . . . .	426
Furukawa, Kyoji . . . . .	217	Getson, Al . . . . .	438	Goodman, Michael J. . . . .	392
Gabrielson, Edward . . . . .	97	Geyer, Susan M. . . . .	194, 264	Goodman, Richard A. . . . .	75
Gaenir, Palyne . . . . .	280	Geys, Helena M. . . . .	27, 163	Gordek, Harper . . . . .	23
Gage, Linda . . . . .	170	Ghahramani, Melody . . . . .	314	Gordon, Alexander Y. . . . .	155
Gagnon, Francois . . . . .	412	Ghisletta, Paolo . . . . .	199	Gorlova, Olga . . . . .	200
Gail, Mitchell H. . . . .	55, 200, 395	Ghosh, Debashis . . . . .	62, 155, 198, 395	Gorsak, Mark . . . . .	400
Gaines, Leonard . . . . .	170	Ghosh, Dharendra . . . . .	199, 389	Gosky, Ross M. . . . .	54, 89
Gajewski, Byron J. . . . .	302	Ghosh, Jayanta K. . . . .	139	Gossett, Jeffrey M. . . . .	28
Galfalvy, Hanga . . . . .	35	Ghosh, Kalyan . . . . .	221	Goswami, Gopika R. . . . .	408, 440
Gallavan, Jr., Robert H. . . . .	90	Ghosh, Kaushik . . . . .	19, 384, 386	Gotway Crawford, Carol A. . . . .	173
Gallop, Robert . . . . .	90	Ghosh, Malay . . . . .	91, 139, 198, 422	Gould, A. Lawrence . . . . .	220, 347
Galway, Lionel . . . . .	262, 413	Ghosh, Samiran . . . . .	436	Gould, Robert . . . . .	136
Gambino, Jack G. . . . .	210	Ghosh, Subir . . . . .	337	Govindarajulu, Usha S. . . . .	413
Ganapati, Patil . . . . .	287	Ghosh, Sujit K. . . . .	20, 89, 330	Grabka, Markus M. . . . .	434
Gandhi, Bodapati V.R. . . . .	120	Giacoletti, Katherine E.D. . . . .	339	Grambow, Steven C. . . . .	35
Gangnon, Ronald . . . . .	16	Giannerini, Simone . . . . .	214	Grant, David . . . . .	41, 165
Ganju, Jitendra . . . . .	220	Gibson, Greg . . . . .	274	Grau, Eric . . . . .	28, 58
Gann, Peter H. . . . .	385	Giesbrecht, Lee . . . . .	165	Graubard, Barry I. . . . .	382, 389, 391
Gao, Sujuan . . . . .	273	Gilbert, Steven A. . . . .	121	Graves, Spencer B. . . . .	428
Gao, Tangan . . . . .	304	Gildea, Derek . . . . .	184	Graves, Todd L. . . . .	106
Gao, Xin . . . . .	341	Giles, David E. . . . .	308, 406	Gray, Alexander G. . . . .	19
Garcia, Maria M. . . . .	441	Giles, Kendall . . . . .	425	Gray, Brian . . . . .	253
Gard, Charlotte . . . . .	152	Gill, Leicester E. . . . .	9	Gray, Henry . . . . .	161, 314
Gardenier, George . . . . .	230	Gillen, Daniel L. . . . .	112	Gray, J. Brian . . . . .	117, 253, 303
Gardenier, Turkan K. . . . .	81	Gillespie, Brenda W. . . . .	233	Gray, Mary W. . . . .	254
Gardiner, Richard C. . . . .	83, 409	Gillespie, Cathleen . . . . .	233	Greco, William R. . . . .	259
Gardner, Ian A. . . . .	332	Gilliland, Dennis . . . . .	379	Green, James L. . . . .	52
Garfield, Joan . . . . .	209	Gillman, Dan . . . . .	441	Green, Jeffrey J. . . . .	232
Gargano, Cynthia A. . . . .	442	Giloni, Avi H. . . . .	306	Greenberg, Brian V. . . . .	71, 401
Garner, Latonya . . . . .	188	Giorgio, Vittadini . . . . .	371	Greenblat, Janet . . . . .	399
Garrett, Bryan D. . . . .	195, 387	Giovannini, Enrico . . . . .	269	Greenhouse, Joel . . . . .	295
Garrett, Elizabeth . . . . .	97	Gitelman, Alix I. . . . .	47	Gregory, Jacqueline . . . . .	200

# INDEX OF JSM PRESENTERS

Greve, Douglas N. . . . .	27	Han, Chuan-Hsiang . . . . .	84	Henry, David H. . . . .	123
Griffin, Deborah H. . . . .	133, 313	Han, Jing . . . . .	310	Henry, Kimberly A. . . . .	334
Griffin, Richard A. . . . .	28	Han, Shu . . . . .	263	Hens, Niel . . . . .	190
Griffith, William S. . . . .	314	Han, Yi . . . . .	189	Heo, Tae-Young . . . . .	85
Griscom, Bronson . . . . .	287	Handcock, Mark S. . . . .	5	Hepler, Amanda . . . . .	104
Groggel, David . . . . .	410	Haneuse, Sebastien . . . . .	112	Hernán, Miguel A. . . . .	99
Gromala, Theresa J. . . . .	409	Hanley, Gerard L. . . . .	396	Herring, Amy H. . . . .	102, 289
Gross, Kevin . . . . .	275, 378	Hans, Chris . . . . .	190	Herzberg, Agnes . . . . .	67
Gross, Shulamith . . . . .	176	Hansen, Bruce E. . . . .	4	Hesterberg, Tim C. . . . .	362
Grothaus, Louis . . . . .	302	Hansen, Elizabeth A. . . . .	222	Hettmansperger, Tom . . . . .	317
Grove, John S. . . . .	56, 343	Hanson, Timothy E. . . . .	258	Heyse, Joseph F. . . . .	339
Groves, Robert . . . . .	269, 387	Hansson, Lisbeth . . . . .	382	Hidiroglou, Mike . . . . .	389, 422
Gruber, Marvin H.J. . . . .	436	Hanway, Steve . . . . .	313	Higdon, David . . . . .	360, 373
Guciaro, Christopher J. . . . .	196, 279	Haran, Murali . . . . .	46	Hill, Craig . . . . .	300
Guerino, Paul . . . . .	58	Hardin, J. Michael . . . . .	253	Hill, Gary . . . . .	303
Guha, Subharup . . . . .	106	Hardin, Johanna . . . . .	35, 114	Hill, Jennifer . . . . .	212
Guillas, Serge . . . . .	47	Harel, Ofer . . . . .	383	Hinkley, David V. . . . .	362
Gullion, Christina M. . . . .	336	Harkness, William L. . . . .	280	Hinrichs, Paul . . . . .	229
Gumpertz, Marcia L. . . . .	320, 377	Harlow, Sioban . . . . .	289	Hischmann, Carla L. . . . .	191
Gunaratna, Nilupa S. . . . .	345	Harms, Torsten N.J. . . . .	52	Hites, Ronald A. . . . .	224
Gunning, Patricia M. . . . .	278	Harrell, Louis . . . . .	411	Ho, Pak Kei . . . . .	161
Gunst, Richard F. . . . .	78	Harris, Bernard . . . . .	359	Hoang, Thu . . . . .	425
Gunter, Bert . . . . .	419	Harris, Ian R. . . . .	233	Hoar, Timothy . . . . .	398
Guo, Cheng-en . . . . .	11	Harris, Kenneth W. . . . .	313	Hobert, Jim . . . . .	33
Guo, Xu . . . . .	155	Harris-Kojetin, Brian A. . . . .	125, 181, 237, 349, 403	Hoch, Jeffrey S. . . . .	109, 263
Guo, Ying . . . . .	55, 343	Harter, Rachel M. . . . .	132, 244, 286, 355	Hockman, Kymberly K. . . . .	128
Gupta, Arjun K. . . . .	51	Hartlaub, Brad . . . . .	270	Hodges, James S. . . . .	272
Gupta, Jayanti . . . . .	333	Hartzell, Michael . . . . .	411	Hoe, Chao-Min L. . . . .	121, 318
Gupta, Mayetri . . . . .	407	Harvey, Eric . . . . .	436	Hoenig, Christopher W. . . . .	269
Gupta, Sudhir . . . . .	438	Harvill, Jane L. . . . .	19, 68, 161	Hoering, Antje . . . . .	264
Gurka, Matthew J. . . . .	220, 224	Hassad, Rossi A. . . . .	280	Hoerl, Roger . . . . .	153
Gustafson, Paul . . . . .	266	Hatcher, Juanita . . . . .	226	Hoeting, Jennifer A. . . . .	5, 47
Guthrie, William F. . . . .	428, 440	Haugh, Larry D. . . . .	204	Hoffman, Heather J. . . . .	302
Gwynn, R. Charon . . . . .	160	Hauptmann, Michael . . . . .	56	Hoffman, Lori . . . . .	90
Haaland, Perry D. . . . .	205	Hauser, Elizabeth R. . . . .	8	Hoffmann, Raymond G. . . . .	200, 263
Haan, Chris . . . . .	431	Haviland, Amelia . . . . .	199	Hofmann, Glenn . . . . .	377
Haas, Anette . . . . .	431	Hawkins, Douglas . . . . .	35, 205, 419	Hogan, Howard . . . . .	36, 327, 399
Haber, Michael J. . . . .	87	Hayat, Matthew J. . . . .	59, 263	Hogg, William . . . . .	439
Habte, M. Leeann . . . . .	441	Hayden, Douglas . . . . .	415	Hogye, Michael . . . . .	401
Hadjiliadis, Olympia . . . . .	429	Hayden, Robert W. . . . .	75	Holan, Scott H. . . . .	201
Hagan, Joseph L. . . . .	385	Haynes, Michele A. . . . .	436	Holcomb, John . . . . .	301
Hahn, Elizabeth A . . . . .	233	Haynes, Will . . . . .	345	Holden, Sarah A. . . . .	10
Haider, Asifa . . . . .	88	Haziza, David . . . . .	229	Holford, Theodore R. . . . .	344
Hall, Jack . . . . .	311	He, Chong . . . . .	14, 59, 217, 298	Holloman, Christopher H. . . . .	85
Hall, Alastair . . . . .	171	He, Shui . . . . .	81	Holmberg, Anders . . . . .	278
Hall, Daniel B. . . . .	330	He, Weili . . . . .	305	Holmes, Chris C. . . . .	198
Hall, David W. . . . .	76	He, Xuming . . . . .	98, 116, 176	Holsinger, Kent E. . . . .	227
Hall, John W. . . . .	79, 433	He, Yan . . . . .	121	Holton, Michael W. . . . .	191
Hall, Leslyn . . . . .	433	He, Yulei . . . . .	295	Holzmann, Hajo . . . . .	53
Hall, Matthew . . . . .	54, 423	Headrick, Todd C. . . . .	80	Hon, Ivan . . . . .	7
Hall, Peter . . . . .	268	Heagerty, Patrick J. . . . .	288	Hong, Bo . . . . .	87
Hall, Sandra . . . . .	104, 273	Heeringa, Steven G. . . . .	387, 389	Hood, Catherine . . . . .	108, 329
Hallahan, Mark . . . . .	297	Heidaran, Mohammad . . . . .	205	Hooker, Giles . . . . .	22
Halloran, M. Elizabeth . . . . .	99	Heikes, Russell . . . . .	331	Horgan, Jane M. . . . .	278
Hallum, Cecil R. . . . .	90	Heimovitz, Harley K. . . . .	278	Hornikova, Adriana . . . . .	428
Hambric, Donna . . . . .	441	Heitjan, Daniel F. . . . .	397	Horrigan, Michael W. . . . .	290
Hamel, Marc . . . . .	160	Helenowski, Irene B. . . . .	274, 385	Horton, Nicholas J. . . . .	443
Hamilton, James . . . . .	14	Helms, Ronald W. . . . .	12	Horvath, Steve . . . . .	194
Hamilton, M. Coreen . . . . .	224	Helterbrand, Jeffrey . . . . .	380	Hosmer, David W. . . . .	382
Hammer, Roger B. . . . .	170	Henderson, Robin . . . . .	307	Hossain, Anwar M. . . . .	191, 376
Hamsher, Susan . . . . .	267	Hengartner, Nicolas . . . . .	360	Hou, Xiaoli S. . . . .	305
Han, Chien-Pai . . . . .	404	Hennigan, Karen . . . . .	165	Hougaard, Philip . . . . .	144

Hough, George	170	Hyrien, Ollivier	417	Jiao, James	405
House, Leanna L.	46, 115	Hyslop, Terry	148, 264, 311	Jilinskaia, Evguenia I.	409
Hovey, Peter W.	48, 314	Iachan, Ronaldo	433	Jin, Bo	407
Howard, George	191	Iachina, Maria	90	Jin, Chunfang (Amy)	326
Howell, Stephen	227	Iachine, Ivan	54, 90	Jin, Hua	110, 219
Howell, Well	192	Iannacchione, Vincent G.	69, 260	Jin, Xiaoping	272
Howes, Cynthia	41	Ibrahim, Joseph G.	74, 266, 312, 348, 378	Jo, Chan-hee	28
Howington, Eric B.	117	Iglarsh, Harvey	406	Joffe, Marshall M.	397
Hsiao, Chin-Fu	305	Iglesias, Pilar L.	151	Johannis, Paul	181
Hsiao, Chu-Hsing	385, 423	Im, KyungAh	424	John, Violanti	233
Hsieh, Hsin-Ju	166	Imai, Kosuke	199	Johns, Chris	388
Hsieh, Ping-Hung	84, 222	Infante-Rivard, Claire	207	Johnson, Barry W.	334
Hsing, Tailen	190	Ingram, Deborah D.	1, 293	Johnson, Brent A.	50, 62
Hsu, Chyi-Hung	121	Ionides, Edward	80	Johnson, Cathy	409
Hsu, Jason	423	Ip, Edward	273	Johnson, Dallas E.	404
Hsu, John S.J.	436	Ip, Wai C.	431	Johnson, Devin S.	5
Hsu, Steven C.W.	436	Isaacson, Dean	370	Johnson, Edward A.	312
Hsueh, Huey-Miin	423	Isaksson, Annica	149	Johnson, Jason	88
Hu, He	84	Ishwaran, Hemant	175	Johnson, John	338
Hu, Kuolung	307	Isken, Mark W.	442	Johnson, Katherine E.	111
Hu, Mingxiu	63, 338, 405	Iyer, Hari K.	115	Johnson, Laura L.	114
Hu, Sylvia	405	Iyer, Vishwanath	274	Johnson, LuAnn	424
Hu, Xiaoping S.	121	Izem, Rima	262	Johnson, Nancy R.	400
Hu, Zhenhua	105	Izenman, Alan J.	276	Johnson, Norman J.	17
Hu, Zonghui	113	Izsak, Yoel	279	Johnson, Robert E.	219, 302
Huang, Bin	381	Jack, Jr., Clifford R.	56	Johnson, Thomas	226
Huang, Elizabeth T.	369	Jacobson, Darien B.	334	Johnson, Valen	89
Huang, Gary	199	Jacqmin-Gadda, Hélène	157	Johnson, Victor M.	201
Huang, Jian	144	Jacquez, Geoffrey M.	366	Johnson, Wesley O.	258, 332
Huang, Jianhua Z.	143	Jahan, Nusrat	161, 201	Johnson-Masotti, Ana	263
Huang, Li-Shan	268	Jalaluddin, Muhammad	220	Johnston, Edward M.	104
Huang, Mei Ling	19	James, David A.	425	Johnston, Patrick R.	86
Huang, Rong	58, 165	James, Mike	173	Joner, Michael	201
Huang, Shuguang	112, 274	Jamshidian, Mortaza	116, 150	Jones, Arthur F.	76
Huang, Wei-Min	233	Janes, Darryl	79	Jones, Bradley	337, 421
Huang, Wenzheng	395	Janes, Holly	85	Jones, Galin	51
Huang, Xuewen	314	Jang, Donsig	58, 196	Jones, Shelton	23
Hubele, Norma F.	304, 442	Jang, Leon	52	Jones, Stephen P.	350, 421, 432
Huber, Mark L.	33	Jank, Wolfgang	406	Jonkman, Jeffrey N.	53
Hubert, Mia	98	Jankowski, John	40	Jonsen, Ian	173
Hudgens, Michael G.	99	Jansen, Ivy	156	Jordan, Joy	301
Huerta, Gabriel	272, 373	Javier, Walfredo R.	51	Jordan, Michael I.	255
Huff, Larry L.	426	Jayawardhana, Ananda A.	25	Jornsten, Rebecka J.	35, 415
Huggins, Richard	417	Jean, Ming-Der	232	Joseph, Maria	90
Hughes, Jeffery P.	160	Jearkpaporn, Duangporn	92	Joseph, Nedra	233
Hughes-Oliver, Jacqueline M.	46, 85, 194, 361	Jeffrey, Thompson	432	Joseph, V. Roshan	251
Huiling, Li	437	Jeng, Shuen-Lin	48	Joshee, Archana	275
Hulting, Fred	13, 281	Jennings, Cheryl L.	13	Jovanovic, Borko D.	274, 385
Hung, H.M. James	12, 338, 347	Jennings, Michael D.	261	Jowell, Roger	252
Hung, Ying-Chao	80	Jensen, Shane Tyler	198	Judkins, David R.	52, 196, 389
Hunt, Jr., William F.	120	Jeon-Slaughter, Haekyung	409	Judson, Dean H.	61, 327
Hunter, David R.	68	Jerome, Elisabetta L.	65	Jun, Mikyoung	85
Hunter, Jeff	325	Jersky, Brian	75	Jung, Byung-Chul	407
Huot, Guy	73	Jeske, Daniel R.	49, 141	Jung, Inkyung	110
Huson, Les	156	Ji, Yuan	82	Jung, Sin-Ho	148, 423
Hussey, James	382	Jiang, Changjian	20	Kabaila, Paul	175
Hutwagner, Lori	392	Jiang, Guoyong	438	Kabos, Sandor	294
Huzurbazar, Aparna V.	413	Jiang, Huiping	161	Kaczorowski, Janusz	439
Hwang, Dar Shong	121	Jiang, Jiming	140, 286	Kadane, Joseph B.	38, 381, 443
Hwang, Yi-Ting	164	Jiang, Luohua	424	Kadiyala, K. Rao	233
Hychka, Kristen	287	Jiang, Thomas J.	440	Kafadar, Karen	64, 250
Hydorn, Debra	345	Jiang, Xing	330	Kaiser, Mark	217

# INDEX OF JSM PRESENTERS

Kaizar, Eloise . . . . .	227	Khutoryansky, Naum M. . . . .	163	Koning, Ruud . . . . .	256, 340
Kalbfleisch, Jack . . . . .	83, 228, 310, 416	Kianifard, Farid . . . . .	121	Koo, Ja-Yong . . . . .	111
Kalsbeek, William D. . . . .	388	Kikinis, Ron . . . . .	27	Koo, Malcolm . . . . .	191
Kalu, Nnenna . . . . .	121	Killion, Ruth Ann . . . . .	327	Koop, Gary M. . . . .	85
Kamakura, Toshinari . . . . .	376	Kim, Hyoung T. . . . .	189	Koopman, Siem Jan . . . . .	329
Kammerer, Nina . . . . .	165	Kim, Hyun J. . . . .	117	Koschat, Martin . . . . .	13
Kan, Zhengyan . . . . .	88	Kim, Jae-Kwang . . . . .	342	Kosinski, Andrzej . . . . .	407
Kang, Hosung . . . . .	11	Kim, Jay H. . . . .	17	Kosorok, Michael R. . . . .	22
Kang, Kee-Hoon . . . . .	268	Kim, Jay J. . . . .	17, 23, 229, 441	Kost, James T. . . . .	221
Kang, Shin-Soo . . . . .	271	Kim, Jessica . . . . .	235	Kostanich, Donna L. . . . .	206
Kao, Tzu-Cheg . . . . .	226	Kim, Jieun . . . . .	187	Kott, Phillip S. . . . .	260
Karr, Alan F. . . . .	315, 370, 418	Kim, Jong-Min . . . . .	389	Kottas, Athanasios . . . . .	258
Karunamuni, R.J. . . . .	378	Kim, Joo M. . . . .	275	Kou, Samuel . . . . .	141
Karuri, Stella W. . . . .	227	Kim, Kimi . . . . .	413	Koury, Kenneth J. . . . .	347, 370
Karwalajtys, Tina . . . . .	439	Kim, Mi-Ok . . . . .	378	Kovacevic, Milorad S. . . . .	391
Kaseda, Chosei . . . . .	331	Kim, Myoung-Jin . . . . .	233	Kovacs, Agnes . . . . .	42
Kashihara, David . . . . .	342, 399	Kim, Myung Suk . . . . .	24	Kovar, John . . . . .	181
Kashyap, Vinay . . . . .	11	Kim, Se-Young . . . . .	381	Kowalski, Jeanne . . . . .	19
Kasprzyk, Daniel . . . . .	105, 300	Kim, Sun Woong . . . . .	389	Kowalski, Scott . . . . .	211
Kass, Robert E. . . . .	89	Kim, Woo Chul . . . . .	314	Kraber, Shari . . . . .	351
Kathman, Steven J. . . . .	443	Kim, Yuwon . . . . .	111	Kraft, Peter . . . . .	45
Katholi, Charles R. . . . .	121	Kimmel, Marek . . . . .	45	Krams, Michael . . . . .	142
Katsaounis, Tena I. . . . .	432	Kincaid, Charles . . . . .	117	Krasnicka, Barbara . . . . .	182
Katz, Barry . . . . .	411	King, Karen . . . . .	76	Kravchenko, Alexandra . . . . .	314
Katz, Terry L. . . . .	193	King, R. Duane . . . . .	64	Krenzke, Thomas R. . . . .	279
Katzoff, Myron . . . . .	34, 95, 229, 277, 293, 441	King, Robert . . . . .	436	Kriska, S. David . . . . .	191
Kaufman, Steven . . . . .	196	Kingolser, Joel G. . . . .	262	Kroger, Hans . . . . .	193
Kavanagh, Sarah T. . . . .	388	Kippola, Trecia . . . . .	201	Kryscio, Richard J. . . . .	157
Kaye, David H. . . . .	250	Kistner, Emily . . . . .	207	Kuchar, Olga A. . . . .	111
Kazanis, Anamaria S. . . . .	83, 238	Kitamura, Yuichi . . . . .	420	Kuczewski, Bartosz . . . . .	163
Kee, Agnes S. . . . .	313	Kitchen, Christina R. . . . .	198	Kuiper, Shonda . . . . .	301
Keener, Robert W. . . . .	372	Kitsantas, Panagiota . . . . .	152	Kulkarni, Pandurang . . . . .	121
Kehler, Daniel G. . . . .	312	Kitsos, Christos . . . . .	190	Kulldorff, Martin . . . . .	323
Keles, Sunduz . . . . .	194	Kittelton, John . . . . .	264	Kulp, Dale W. . . . .	183
Kelleher, Kelly . . . . .	295	Klass, Gary M. . . . .	75	Kuntz, Karen M. . . . .	328
Kelleher, Thomas . . . . .	235	Klein, John P. . . . .	283	Kuo, Lynn . . . . .	266
Keller, Janet J. . . . .	9	Kloke, John D. . . . .	113	Kuo, Way . . . . .	48
Keller, Jay . . . . .	61	Knapman, Samantha . . . . .	90	Kuo, Yen-Hong . . . . .	55
Kellerman, David . . . . .	434	Knaub, Jr., James R. . . . .	233	Kupper, Lawrence L. . . . .	382
Keller-McNulty, Sallie . . . . .	418	Knaup, Amy E. . . . .	434	Kushler, Robert . . . . .	432
Kelly, Colleen . . . . .	437	Knudsen, Amy . . . . .	328	Kustra, Rafal . . . . .	96, 360
Kendziorski, Christina . . . . .	37, 200	Knuth, Barbara A. . . . .	224	Kutner, Michael H. . . . .	320
Kennedy, Kathryn . . . . .	13	Ko, Li-Wen . . . . .	440	Kutsyy, Vadim . . . . .	111, 129
Kennickell, Arthur B. . . . .	195, 292, 334	Koch, Gary G. . . . .	391	Kuznetsova, Olga M. . . . .	193
Kenny, Peter B. . . . .	178	Kocherginsky, Masha . . . . .	116	Kvam, Paul H. . . . .	48, 189
Kensler, Thomas . . . . .	20	Kodell, Ralph L. . . . .	112, 394	Kwagyan, John . . . . .	121
Kent, John T. . . . .	379	Koehler, Kenneth J. . . . .	271	Kwanisai, Mike . . . . .	342
Kenyon, James . . . . .	42	Koenker, Roger . . . . .	137	Kwon, Deukwoo . . . . .	115
Keogh, Gary . . . . .	278	Kogure, Atsuyuki . . . . .	404	Kwon, Jaimyoung . . . . .	115
Kepner, James L. . . . .	219	Kogut, Sarah J.H. . . . .	307	Kyeyune, Hannah . . . . .	152
Kerby, April . . . . .	90	Kohn, Felipe . . . . .	309	Labbe, Aurelie . . . . .	423
Kerman, Jouni . . . . .	440	Kohn, Nina . . . . .	166, 233	Lachenbruch, Peter A. . . . .	101, 368
Kern, II, John C. . . . .	436	Kohn, Robert . . . . .	89, 202	Lacher, David A. . . . .	160
Kern, Steven E. . . . .	259	Kohnen, Christine N. . . . .	44	Lacke, Christopher J. . . . .	154
Kerwin, Jeffrey . . . . .	411	Kolaczyk, Eric . . . . .	344	LaComb, Christina . . . . .	24
Kesler, Karen . . . . .	12	Kolassa, John E. . . . .	51, 187	Ladiray, Dominique . . . . .	73
Kettenring, Jon . . . . .	315	Kolczak, Margarette S. . . . .	392	Laffont, Jean-Louis . . . . .	223
Khamis, Harry J. . . . .	382	Kolenikov, Stanislav . . . . .	233	Laflamme, Guy . . . . .	279
Khare, Meena . . . . .	183, 342, 422	Kollo, Tonu . . . . .	151	LaFramboise, Thomas . . . . .	426
Khinkis, Leonid A. . . . .	259	Kong, Fanhui . . . . .	22	Lahiri, Partha . . . . .	286
Khuri, Andre I. . . . .	430	Kong, Lan . . . . .	413	Lahiri, Soumendra . . . . .	4, 118
Khutoryansky, Natalie . . . . .	200	Kong, Lingji . . . . .	408	Lai, Jennie . . . . .	41, 296



Lai, Tze Leung	431	Lee, Michael	193	Li, Xiang	331
Lakhal, Lajmi	435	Lee, Rick J.	21	Li, Xiaobai	180
Lakshminarayanan, Mani	405	Lee, Sangjun	111	Li, Xiaodong	231
Lall, Abhishek	314	Lee, Suhwon	106	Li, Xiaoming	339
LaLonde, Steven M.	280	Lee, Sunghee	149, 411	Li, Xuefeng	161
Lam, Miou	164	Lee, Thomas C.M.	11	Li, Yan	229
Lam, Raymond L.	274	Lee, Timothy H.	24	Li, Yehua	188
Lambert, Diane	172	Lee, Todd	83	Li, Yisheng	89
Lamborn, Kathleen R.	219	Lee, Tzesan D.	55	Li, Yufeng	121
Lamothe, François	303	Lee, Yoonkyung	111	Li, Yulan	437
LaMotte, Lynn R.	430	Lee, Youngju	84	Liang, Hua	413
Lan, Feng	162	Leeb, Hannes	175	Liang, Jiajuan	53
Lan, Gordon	338	Leeper, James	344	Liang, Li	211
Lan, Hong	200, 326	Lefebvre, Linda L.	309	Liang, Li-Jung	15
Lan, K.K. Gordon	63	Lefkowitz, Daniel	314	Lievesley, Denise	252
Lan, Shu-Ping	307	Legedza, Anna T.R.	117	Lim, Johan	312, 430
Land, Margaret	120	Legel, Ellen	334	Lim, Pilar	12
Landis, J. Richard	90, 102	Legler, Julie	301	Lin, Charles C.	17
Landrum, Mary Beth	397	Lehman, Jeff	95	Lin, Chien-Tai	268
Landwehr, James M.	209, 406	Lehr, Ulrike G.	20	Lin, Danyu	62, 169
Lane, Julia I.	355	Lei, Lei	200	Lin, Dennis K.J.	325, 421
Lane, Peter	119	Leitnaker, Mary G.	251	Lin, Haiqun	308
Lang, Duncan T.	284, 425	Lenk, Peter	203	Lin, Hung-Mo	119
Lang, Wei	265	Lensing, Shelly	314	Lin, Karl K.	123
Langholz, Bryan	56	Lent, Janice	290	Lin, Shili	8
Langkamer, Krista L.	111	Lenth, Russell V.	340	Lin, Tsung I.	376
Lanken, Paul N.	90	Leon, Ramon V.	49	Lin, Xiaodong	46, 418
Lansky, Amy	342	Leon, Selene	161	Lin, Xihong	62, 89, 99, 143, 155, 289, 314
Lao, Chang S.	182	Lepkowski, James	76, 183	Lin, Xiwu	318
Larget, Bret	97	Leroux, Brian G.	82, 224	Lin, Xun	112
Larkey, Patrick D.	297	Leslie, Theresa F.	313	Lin, Yi	317, 364
Larkin, Sim	146	Lesser, Martin L.	90, 166, 233	Lin, Yong	219
Larocque, Denis	113	Lesser, Mary	431	Lindblad, Anne S.	402
Larsen, Michael D.	9, 44, 100, 286	Leung, Bartholomew P.K.	86	Lindborg, Stacy R.	121
Larson, William E.	196	Levin, Kerry	411	Linder, Ernst	231
Laska, Eugene	156	Levina, Elizaveta	187	Lindsay, Bruce G.	53, 54, 104, 276, 315
Laud, Prakash	59, 263	Levine, Richard A.	381	Link, Michael W.	183
Launt, Pam	221	Levitt, Cheryl	439	Link, William A.	179
Lauritzen, Steffen L.	6	Levy, Adrian R.	266	Linkletter, Crystal	360
LaVange, Lisa M.	391	Levy, Douglas	295	Lipkovich, Ilya A.	298
Lavrakas, Paul J.	41, 296	Levy, Martin S.	345	Lipovetsky, Stan	116
Law, Chungchung G.	405	Levy, Paul	433	Lipsitz, Stuart R.	50, 112
Lawless, Jerald F.	207, 435	Lewis, Edwin	392	Lipton, Rebecca B.	152
Lawrence, Earl	115	Lewis, Marsha	345	Lisabeth, Lynda	289
Lawrence, James B.	90	Li, Bing	288	Liss, Charles L.	70
Lawson, Andrew B.	353	Li, Gang	86, 164, 413, 420, 424	Little, Roderick J.	99, 162, 172, 342
Leaver, Sylvia G.	23	Li, Hailing	83	Liu, Aiyi	311
Lee, Bernard	84	Li, Hongzhe	144	Liu, Andrew	163
Lee, Carl	185, 408	Li, Huiling	397	Liu, Benmei	23, 160
Lee, Charles	305	Li, Juan	157	Liu, Chaofeng	221
Lee, Cheng-Few	24	Li, Jun	415	Liu, Chuanhai	80
Lee, DongHee	54	Li, Ker-Chau	88	Liu, Dacheng	2
Lee, Eun-Joo	404	Li, Lei	23	Liu, Dawei	62, 155
Lee, Geoffrey F.	269	Li, Lingling	82	Liu, Diane D.	381
Lee, Herbert	373	Li, Lung-An	414	Liu, Fang	172
Lee, Hyunsook	233	Li, Mingyao	310	Liu, Gang	198
Lee, J. Jack	381	Li, Ning	291	Liu, Guanghan F.	193, 438
Lee, Jack C.	24	Li, Runze	2, 175, 288	Liu, Hongxia	21
Lee, James S.	121	Li, Shengqiao	233	Liu, Hung-kung	440
Lee, Juneyoung	407	Li, Sierra M.	198	Liu, Ivy	55
Lee, Kwan R.	274, 318	Li, Wai Keung	161	Liu, Jack	361
Lee, Mei-Hsien	90	Li, William	421	Liu, Jianzhong	118

# INDEX OF JSM PRESENTERS

Liu, Jiawei	.54	Lubienski, Sarah T.	.277	Mallinckrodt, Craig H.	.156, 405
Liu, Jun	.276	Lucas, James M.	.410	Mallows, Colin L.	.51, 281
Liu, Jun	.305	Lucas, Lee	.177	Malone, Christopher J.	.25
Liu, Jun S.	.141, 198, 322, 348	Lucas, Randolph	.412	Man, Kasing	.57
Liu, Jyh-Charn	.225	Ludlum, Melissa R.	.334	Manatunga, Amita K.	.16, 17, 343
Liu, Ka Yee	.161	Lui, Kung-Jong	.382	Mancl, Lloyd A.	.224
Liu, Lei	.83	Luke, Julian V.	.183	Mandal, Abhyuday	.201, 337
Liu, Li	.419	Lukens, Mark W.	.187	Mandal, Bidisha	.216
Liu, Liangang	.314	Luo, Amy	.387	Mandelson, Margaret	.328
Liu, Lin	.71, 305	Luo, Edmund	.29, 193	Mandrekar, Jayawant N.	.110
Liu, Li-yu D.	.190	Luo, Fangyi	.163	Mandrekar, Sumithra J.	.110, 148, 264
Liu, Peng T.	.382	Luo, Lidan	.105	Mann, Charles R.	.38
Liu, Qing	.12	Luo, Ruiyan	.97	Manner, David	.307, 402
Liu, Regina Y.	.141, 317, 415	Luo, Wen-Lin	.78	Mansfield, Edward R.	.442
Liu, Wei	.116	Luo, Xiaohui	.437	Mansur, Khandaker	.400
Liu, Wei-min	.384	Luo, Xiaolong	.112	Manzan, Sebastiano	.431
Liu, Xuecheng	.413	Luo, Zhen R.	.339	Maples, Jerry J.	.369
Liu, Yan	.376, 387	Lupinacci, Paul J.	.148, 311	Marchette, David J.	.64, 319, 425
Liu, Zhaohui	.84, 266	Luppés, Martin	.285	Marchetti, Giovanni	.6
Lix, Lisa	.233, 344	Lurie, Deborah	.25	Marenius, Barbara	.267
Lo, Karen	.437	Lusa, Lara	.264	Margosches, Elizabeth H.	.31
Lo, Kim Hung	.405	Lussier, Robert	.152	Mariano, Louis T.	.147, 227
Lo, Shaw-Hwa	.43, 384	Lyles, Robert H.	.119, 131, 243, 344, 354, 382	Marin, Ofelia	.432
Lobato, Ignacio N.	.57	Lynch, Carrie	.21, 229	Marion, Jocelyne	.9
Lobo, Arun P.	.103, 170	Lynch, Kevin	.265	Marjoram, Paul	.166
Lock, Robin	.122, 209	M Abad, Maria	.435	Mark, Steven	.265
Lockwood, J. R.	.227	Ma, Chunsheng	.118, 324	Markatou, Marianthi	.176, 315
Loesch, Danuta	.417	Ma, Huaiyu	.80	Marker, David A.	.107, 340
Logan, Brent R.	.27	Ma, Julie G.	.220	Marron, J. Stephen	.32, 62, 262
Loken, Eric	.386	Ma, Xin	.277	Marsh, Lawrence C.	.24, 275
Lokhnygina, Yuliya	.380	Ma, Yanyuan	.151	Marshall, James R.	.148
Long, Christopher	.11	Ma, Yeming	.27, 200	Martell, David L.	.146
Long, Cynthia R.	.336	Ma, Yi-wen	.29, 220	Martell, Leah	.117
Long, Qi	.99	Ma, Yuejiao	.325	Martin Conley, Valerie	.335
Looney, Stephen W.	.385	Ma, Zhenxu J.	.233	Martin, Dave	.41
Loperfido, Nicola	.20, 151, 424	Maathuis, Marloes H.	.262	Martin, Donald E.K.	.108
Lopez, Adriana	.381	Maca, Jeff	.119, 347	Martin, Emily C.	.343
Losh, Susan C.	.335	MacEachern, Steven	.15, 106, 180, 258, 299	Martinez, Michael	.321
Lothian, Jack R.	.387	Machado, Stella G.	.307	Marzjarani, Morteza	.121, 376
Lott, Juanita T.	.61, 103	Machlin, Steven R.	.77	Mascha, Ed	.311
Louie, Mary	.344	Maciuca, Romeo	.80	Masken, Karen C.	.58
Louis, Thomas A.	.365	MacKenzie, Todd	.343	Mason, Charles C.	.296
Louzada-Neto, Francisco	.90	MacKinnon, James G.	.4	Mason, Robert L.	.49, 282, 314
Love, Susan	.197	MacLean, Leonard C.	.84	Massam, Helene	.255
Love, Tanzy M.	.227	Macnabb, Larry	.160	Massell, Paul B.	.71
Love, Thomas E.	.126, 177	MacNaughton, Donald	.75	Massie, Tammie	.274
Loveland, Susan	.295	Madans, Jennifer	.1, 172, 181, 321	Matejckik, Frank J.	.218
Lu, Bo	.177	Maddox, Amy B.	.233	Mathur, Ashwini K.	.314
Lu, Fan	.303	Madhura, B. P.	.314	Mathur, Sunil	.155
Lu, Hao	.386	Madigan, David	.6, 315, 404	Matis, Timothy I.	.120
Lu, Haolan	.366	Maghsoodloo, Saeed	.189	Matsuo, Hisako	.411
Lu, I-Li	.432	Mah, Zeva	.200	Maurer, Matthew	.194
Lu, Jianhong	.163	Mahmoud, Mahmoud A.	.316	Mauromoustakos, Andy	.121
Lu, Jun	.299	Mahmud, Sadia	.226	Maxcy, Joel	.256
Lu, Ronghua	.79, 162	Mahnken, Jonathan D.	.302	Maynard, Jacinth A.	.115
Lu, Shou-En	.164	Maia, Jessica M.	.43	Mayo, Matthew	.54, 273
Lu, Wenbin	.307	Maiti, Tapabrata	.26, 74, 107	Mazumdar, Sati	.81
Lu, Xuewen	.426	Majkowski, Mark J.	.213	McAllister, Paul	.274
Lu, Ying	.110, 199, 219	Makuc, Diane	.150	McArthur, Edie	.103
Luan, Jingyu	.158	Malec, Donald	.440	McCabe, George P.	.320
Luati, Alessandra	.214	Malik, Malik B.	.304	McCaffrey, Daniel F.	.212, 227
Lubecke, Andre M.	.375	Mallick, Bani K.	.74, 198	McCann, Melinda H.	.233, 424

McClure, Leslie A. . . . .	405	Meyskens, Frank L. . . . .	264	Morara, Michele . . . . .	85
McCool, John I. . . . .	48	Meza, Jane L. . . . .	107, 140	Morel, Jorge G. . . . .	163
McCormack, Jr., D.W. . . . .	314	Miao, Weiwen . . . . .	110, 280	Moreno, Jerry . . . . .	154
McCulloch, Charles E. . . . .	82, 157, 261	Michailidis, George . . . . .	115, 419	Morgan, Carolyn B. . . . .	428
McCulloch, Robert E. . . . .	60, 202, 212	Michalak, Sarah E. . . . .	189	Morgan, III, Morris H. . . . .	428
McCutcheon, Allan . . . . .	296	Michalowska, Aleksandra M. . . . .	114	Morgan, John P. . . . .	127, 337, 407
McDermott, Michael P. . . . .	50, 383	Middleton, Elizabeth M. . . . .	287	Morgan, Mark . . . . .	345
McDonald, James B. . . . .	371, 431	Miglioretti, Diana . . . . .	328	Morganstein, David . . . . .	183
McDonald-Johnson, Kathleen M. . . . .	329	Milander, Evert . . . . .	313	Morgenthien, Elizabeth A. . . . .	438
McElroy, Tucker S. . . . .	73	Millen, Brian A. . . . .	259	Moriarity, Chris . . . . .	388
McFann, Kim . . . . .	336	Miller, Frederick . . . . .	101	Morral, Andrew . . . . .	212
McGaughey, Karen . . . . .	136, 248, 359	Miller, J. Philip . . . . .	338	Morrell, Christopher H. . . . .	345
McGee, Daniel . . . . .	343	Miller, Jackie . . . . .	301	Morris, Carl N. . . . .	286
McGlincy, Michael H. . . . .	100	Miller, Renee H. . . . .	133, 245, 356	Morris, Jeffrey S. . . . .	386
McGovern, Pamela D. . . . .	313	Miller, Ryan N. . . . .	434	Morris, Laura S. . . . .	165
McGrath, Richard N. . . . .	421	Miller, Stephen J. . . . .	159	Morris, Tracy . . . . .	201
McGraw, Lisa . . . . .	274	Miller, Stephen M. . . . .	23, 162	Morton, Sally . . . . .	412
McHenry, M. Brent . . . . .	112	Milliff, Ralph F. . . . .	398	Mosier, Michael C. . . . .	25
McIntosh, Avery L. . . . .	225	Milliken, George A. . . . .	337	Moskowitz, Chaya S. . . . .	82
McIntyre, Jule P. . . . .	190	Mills Flemming, Joanna . . . . .	224	Moura, Hercules . . . . .	427
McIntyre, Kevin . . . . .	345, 411	Minato, Hiroaki . . . . .	105, 296	Moustakides, George V. . . . .	429
McKeague, Ian W. . . . .	393, 420	Minin, Vladimir N. . . . .	15	Mowrey, Daniel H. . . . .	290
McKean, Joseph . . . . .	113, 307	Minkwitz, Margaret . . . . .	380	Moye, Lemuel A. . . . .	191, 439
McKenney-Easterling, Mary . . . . .	287	Mitchell, Matthew . . . . .	205	Mu, Yunming . . . . .	116
McKenzie, Jr., John D. . . . .	154	Mitofsky, Warren J. . . . .	132	Mueller, Charlotte D. . . . .	342
McKenzie, Loretta A. . . . .	434	Mitra, Amitava . . . . .	49	Mueller, Christine H. . . . .	98
McKhann, Guy M. . . . .	157	Mitra, Nandita . . . . .	72	Mueller, Gernot . . . . .	192
McLachlan, Geoffrey J. . . . .	35	Mitra, Rupa . . . . .	443	Mueller, Hans-Georg . . . . .	2
McLaren, Christine E. . . . .	264	Mitra, Sinjini . . . . .	121	Mueller, Klaus-Robert . . . . .	195
McLeish, Donald L. . . . .	207, 435	Mittinty, Murthy N. . . . .	216	Mueller, Peter . . . . .	45, 147, 258, 333
McMahon, Paul B. . . . .	334	Mixson, Lori . . . . .	121, 318	Mueller, Richard . . . . .	90
McMichael, Joseph . . . . .	23	Miyakawa, Masami . . . . .	251	Mukherjee, Bhramar . . . . .	395
McMurry, Tim . . . . .	4	Mizera, Ivan . . . . .	98	Mukherjee, Jayanti . . . . .	31
McRoberts, Ronald E. . . . .	146	Moerbeek, Mirjam . . . . .	199	Mukhopadhyay, Nitis . . . . .	91, 311, 372
McShane, Lisa . . . . .	264, 367	Mohadjer, Leyla . . . . .	160, 279, 441	Mukhopadhyay, Pushpal . . . . .	107
McShane-Vaughn, Mary . . . . .	331	Mohanty, Surya . . . . .	29, 193, 220	Mukhopadhyay, Saurabh . . . . .	333
McSweeney, Laura A. . . . .	429	Moien, Mary . . . . .	277	Mukhopadhyay, Siuli . . . . .	201, 430
Mecatti, Fulvia . . . . .	229	Moisen, Gretchen . . . . .	261	Mule, Tom . . . . .	210
Mecklenburg, Ellen C. . . . .	296	Mokdad, Ali . . . . .	183, 433	Mulekar, Madhuri S. . . . .	372
Medrano, Hilda . . . . .	120	Molenberghs, Geert . . . . .	27, 131, 156, 163, 190, 405	Muller, Keith W. . . . .	220, 224
Mee, Robert . . . . .	48, 251, 337	Molina Cruz, Roberto . . . . .	21	Muller, Peter . . . . .	263
Meeker, William Q. . . . .	251	Molina, German . . . . .	84	Mullin, Andrew . . . . .	90
Meekins, Brian J. . . . .	41, 162, 183	Molinero, Annette . . . . .	303	Mulrow, Jeri M. . . . .	40, 79
Mehrotra, Devan V. . . . .	163, 235, 339	Molitor, John . . . . .	14, 166	Mulry, Mary H. . . . .	309
Mehta, Jatinder S. . . . .	26	Molitor, Nuoo-Ting . . . . .	14	Mulvenon, Sean . . . . .	191
Mei, Zhen . . . . .	7	Monahan, John . . . . .	68, 116, 404	Mumford, Jeanette . . . . .	78
Meiring, Wendy . . . . .	85	Mondal, Debashis . . . . .	208	Munden, Nicole J. . . . .	49
Meloche, Jean . . . . .	51	Mondello, Michael J. . . . .	256	Mundfrom, Daniel . . . . .	233
Menard, Scott . . . . .	430	Monlezun, Charles J. . . . .	230	Munoz Maldonado, Yolanda . . . . .	113
Mendondo, Marta S. . . . .	157	Monsell, Brian C. . . . .	178, 329	Muñoz, Alvaro . . . . .	20
Meng, Xiao-Li . . . . .	168	Montaquila, Jill M. . . . .	105, 160, 441	Murphree, Emily S. . . . .	309
Mengersen, Kerrie . . . . .	436	Montez, Maria E. . . . .	295	Murphy, James R. . . . .	328
Menius, Alan . . . . .	274	Montgomery, Alan . . . . .	203	Murphy, Joseph . . . . .	412
Mera, Robertino M. . . . .	87	Montgomery, Douglas . . . . .	92, 211	Murphy, Patrick . . . . .	3
Mercante, Donald E. . . . .	90	Moon, Hojin . . . . .	112	Murphy, Whitney E. . . . .	41
Mercure, Tanya . . . . .	90	Moons, Elke A. . . . .	86	Musser, Bret J. . . . .	274
Merkov, Lubomir . . . . .	410	Moore, David . . . . .	117	Muttalak, Hassen A. . . . .	311
Merl, Daniel . . . . .	198	Moore, Jr., Richard A. . . . .	52	Myers, Kary L. . . . .	262
Merleau, James . . . . .	386	Moore, Richard . . . . .	26	Myers, Leann . . . . .	233, 273
Merton, Andrew A. . . . .	47	Moore, Trent . . . . .	152	Myers, Ransom . . . . .	173, 218, 312
Mesenbourg, Jr., Thomas L. . . . .	36	Morales, Knashawn . . . . .	81	Myers, Raymond H. . . . .	92
Mewborn, Denise . . . . .	39	Moran, Mark K. . . . .	79	Myers, Wayne . . . . .	287

# INDEX OF JSM PRESENTERS

Myers, William R. . . . .	.92	Nyfall, Mats G. . . . .	.412	Pardoe, Iain . . . . .	.333, 397
Nadeau, Claude . . . . .	.79	Oakes, David . . . . .	.393, 416	Pardo-Fernandez, Juan C. . . . .	.426
Nadimpalli, Varma . . . . .	.52	Obenchain, Robert L. . . . .	.177	Park, Byeong Uk . . . . .	.314
Nagaraja, Haikady N. . . . .	.405	Obenski, Sally M. . . . .	.267	Park, Daniel C. . . . .	.318
Nagin, Daniel . . . . .	.199	Oberg, Ann . . . . .	.415	Park, Evelyn . . . . .	.277
Nagy, Stuart . . . . .	.13	Oberhelman, Dennis . . . . .	.233	Park, Grace S. . . . .	.101
Naiman, Daniel Q. . . . .	.310	O'Brien, Jennifer . . . . .	.411	Park, Inho . . . . .	.278
Nair, Vijayan N. . . . .	.115, 251, 315	O'Brien, Timothy E. . . . .	.259	Park, Jung Wook . . . . .	.20
Nan, Bin . . . . .	.228, 289	Odum, Dawn . . . . .	.58	Park, Mingue . . . . .	.52
Nanan, Debra . . . . .	.226	Offen, Walter . . . . .	.257	Park, Misook . . . . .	.219
Nandram, Balgobin . . . . .	.215	Ogawa, Makiko . . . . .	.343	Park, Sang-Gue . . . . .	.438
Nandram, Balgomin . . . . .	.344	Ogden, Todd . . . . .	.78	Park, Siyun . . . . .	.87
Nandy, Rajesh R. . . . .	.303	O'Gorman, Thomas W. . . . .	.18	Park, Soo Jung . . . . .	.314
Nash, John C. . . . .	.314	Oh, Cheongeun . . . . .	.89	Park, Young-Hoon . . . . .	.192
Natarajan, Kannan . . . . .	.142	Oh, Hee-Seok . . . . .	.94	Park, YouSung . . . . .	.54
Natarajan, Sundar . . . . .	.50	Oh, Man-Suk . . . . .	.314	Parker, James G. . . . .	.28
Navarro, Alfredo . . . . .	.23	Oh, Myungshin . . . . .	.101	Parker, Jennifer . . . . .	.1, 293
Naveau, Philippe . . . . .	.94	O'Hara Hines, R.J. . . . .	.31	Parker, Mary . . . . .	.185, 375
Neagu, Radu . . . . .	.24	Okamoto, Akiko . . . . .	.29, 220	Parks, William . . . . .	.403
Neal, Radford . . . . .	.255	Oleson, Jacob J. . . . .	.59, 217	Parmigiani, Giovanni . . . . .	.97
Neas, Barbara . . . . .	.303	Olivier, Jake . . . . .	.225	Parr, Bill . . . . .	.153
Neath, Andrew . . . . .	.230	Olkin, Ingram . . . . .	.67	Parsons, Van L. . . . .	.21, 425
Nebebe, Fassil . . . . .	.233	Olshen, Adam B. . . . .	.223	Parzen, Emanuel . . . . .	.188
Nebenzahl, Elliott . . . . .	.314	Olson, Kristen . . . . .	.195, 309	Patan, Maciej . . . . .	.163
Neese, Leah E. . . . .	.233	O'Malley, Alistair J. . . . .	.295, 397	Patel, Minu K. . . . .	.222
Nelson, Dean . . . . .	.443	Ombao, Hernando . . . . .	.118, 232	Patel, Nitin . . . . .	.427
Nelson, Roger B. . . . .	.232	O'Muircheartaigh, Colm . . . . .	.41, 199	Patil, Ganapati P. . . . .	.287
Nelson, Wayne B. . . . .	.48	Onar, Arzu . . . . .	.48	Patil, Sujata . . . . .	.216
Nessly, Michael . . . . .	.29, 220	Oosse, Monique M. . . . .	.369	Patterson, Angela . . . . .	.304
Neuhaus, John . . . . .	.157	Opsomer, Jean . . . . .	.26, 94, 412	Paul, Sudhir . . . . .	.330
Nevalainen, Jaakko . . . . .	.383	Ord, Keith . . . . .	.406, 431	Paulus, Harold E. . . . .	.101
Nevius, S. Edward . . . . .	.70	Ordonez, Carlos . . . . .	.425	Payton, Mark . . . . .	.201, 249
Newman, Ken B. . . . .	.173, 227	Orelieu, Jean . . . . .	.385	Peach, Hugh . . . . .	.434
Newton, Michael A. . . . .	.322	O'Rourke, Keith . . . . .	.218, 439	Pearl, Dennis K. . . . .	.396
Ng, Edward . . . . .	.321	Orris, J. Burdeane . . . . .	.345	Pearson, N. Shirleane . . . . .	.320
Ng, Hon Keung . . . . .	.311	Orsini, Joyce N. . . . .	.406	Peck, Roxy L. . . . .	.18, 270
Nguyen, Thuy T.T. . . . .	.73	Oslin, David . . . . .	.265	Pedersen, Ronald D. . . . .	.368
Ni, H. F. . . . .	.24	Ostarello, Andrew . . . . .	.233	Peixoto, Julio L. . . . .	.432
Ni, Shawn . . . . .	.14	Ostermann, Rüdiger . . . . .	.319	Pena, Daniel . . . . .	.145
Nichols, Thomas E. . . . .	.78	Ottoy, Jean-Pierre . . . . .	.110	Pendergast, Jane . . . . .	.50
Nicholson, Nannette . . . . .	.302	Oweis, Theib . . . . .	.314	Penenberg, Darryl . . . . .	.29
Nick, Todd G. . . . .	.191	Owzar, Kouros . . . . .	.148	Peng, Hanxiang . . . . .	.225
Nie, Kun . . . . .	.86, 273	Ozkaynak, Haluk . . . . .	.95	Peng, Jianan . . . . .	.305
Niermann, Cheryl . . . . .	.299	Ozol-Godfrey, Ayca . . . . .	.331	Peng, Roger . . . . .	.222
Niland, Joyce . . . . .	.164	Ozonoff, Al . . . . .	.323	Peng, Xuejun . . . . .	.415
Nishikawa, Masako . . . . .	.343	Ozturk, Omer . . . . .	.180	Pennello, Gene A. . . . .	.182, 236
Niu, Xu-Feng . . . . .	.2, 231	Paben, Steven P. . . . .	.279	Pepe, Margaret S. . . . .	.383
Njau, Magreth . . . . .	.414	Pacei, Silvia . . . . .	.107	Perez, Adriana . . . . .	.196
Noble, Robert . . . . .	.81, 298	Paciorek, Christopher J. . . . .	.147	Perisic, Igor . . . . .	.187
Noguchi, Takuya . . . . .	.404	Pacurar, Maria . . . . .	.308	Perlman, Michael D. . . . .	.93
Nolan, Deborah . . . . .	.375	Paddock, Susan . . . . .	.198, 212	Perron, François . . . . .	.22
Nolte, Michael A. . . . .	.9	Pagano, Marcello . . . . .	.323	Perry Jr., Charles R. . . . .	.389
Nordmoe, Eric . . . . .	.90	Painter, Dicy . . . . .	.58	Peruggia, Mario . . . . .	.106, 299
Normand, Sharon-Lise T. . . . .	.295	Pala, Mustafa . . . . .	.314	Pescatrice, Donn . . . . .	.431
North, Carol S. . . . .	.409	Paladino, Frank . . . . .	.90	Petersen, Hans C. . . . .	.54
Norton, Jonathan D. . . . .	.428	Palmer, Christina . . . . .	.166	Peterson, Derick R. . . . .	.268
Norton, Stanley . . . . .	.409	Palta, Mari . . . . .	.273	Petkova, Eva . . . . .	.78, 123, 235, 265, 347
Notz, William . . . . .	.239, 251, 432	Pamuk, Elsie . . . . .	.293	Petris, Giovanni . . . . .	.440
Novick, Steven . . . . .	.221	Pan, Guohua . . . . .	.29, 220	Petroni, Rita J. . . . .	.79, 387, 399
Novotny, Paul . . . . .	.148	Pan, Wei . . . . .	.155, 187	Petska, Ryan . . . . .	.10, 159, 387
Nusser, Sarah . . . . .	.26, 411, 412	Papaspiopoulos, Omiros . . . . .	.147	Petska, Thomas B. . . . .	.10
Nychka, Doug . . . . .	.324, 365, 398	Paravastu, Swamy A.V.B. . . . .	.26	Peytchev, Andy . . . . .	.195

Pfefferbaum, Betty	409	Qian, Zhiguang	201, 232	Reid, Mary E.	148
Pfeffermann, Danny	26, 140, 178, 252	Qin, Jing	207	Reid, Nancy	315
Pfeiffer, Ruth M.	87	Qin, Li	303	Reilly, Cavan	378
Pflaumer, Peter O.	199	Qin, Zhaohui S.	62	Reimann, Clemens	294
Phan, Tai	197	Qing, Liu	12	Reina, Richard	90
Philibert, Mathieu	366	Qiu, Mei	158	Reiter, Jerome	44, 125, 418
Phipps, Polly	165	Qiu, Shibin	158	Remlinger, Katja S.	46
Phipps, Sean	314	Qiu, Tinghu	114	Remund, Kirk M.	223
Pickle, Linda W.	344	Qu, Annie	288, 415	Ren, Jian-Jian	420
Piegorsch, Walter W.	85, 382	Qu, Roger	339	Ren, Ruilin	422
Pieper, Steven D.	27	Qu, Yongming	121	Renaud, Olivier	199
Pierre, Louis	388	Quade, Dana	16	Resnick, Dean	197, 434
Piesse, Andrea R.	52	Quan, Hui	193, 305, 405	Retzer, Joseph J.	74
Pietro Giorgio, Lovaglio	371	Quenneville, Benoit	73, 178, 214	Rex, Joan	29
Pikounis, Bill	42, 221	Quintana, Fernando A.	151, 386	Reynolds, Gladys	61
Pilla, Ramani S.	376	Quintano, Claudio	371	Reynolds, Joel H.	362, 424
Pim, Carolyn	200	Rabie, Huwaida S.	219	Reznek, Arnold P.	71
Pinheiro, Jose	262	Rabinowitz, Daniel	166	Rice, Glenn	233
Pinson, C. Wright	21	Rademaker, Alfred W.	274	Rice, Tom W.	340
Pittman, Brian	200	Radmacher, Michael	264	Richards, Winston A.	427
Platt, Cathleen A.	90	Raffle, Holly	345	Richardson, Mary	49
Platt, Richard	392	Raftery, Adrian E.	365	Richardson, S. Miles	61
Platt, William G.	81	Raghavarao, Damaraju	163	Richardson, Thomas	99, 187
Pleis, John R.	165	Ragunathan, Trivellore E.	95, 107, 150, 172, 216, 295	Richter, Scott J.	233
Plewes, Thomas J.	138	Raglin, David A.	313	Rida, Wasima	66
Pohar, Maja	307	Ragunathan, Trivellore	150	Rider, Lisa	101
Poirier, Claude	36	Rai, Shesh N.	314	Ridgeway, Greg	96, 212, 425
Politis, Dimitris	4	Rama, Ed	321	Riesz, Steven	342
Polivka, Anne E.	159	Ramakrishnan, Viswanathan	111	Riffenburgh, Robert H.	222
Pollak, Melissa	335	Ramamoorthi, R.V.	212	Rigdon, Christopher J.	201, 410
Pollard, David	426	Ramirez, Brenda	13	Rigdon, Steven E.	49, 410
Pollard, Stephen	406	Ramirez, Jose G.	13	Riggs, T. Lynn	71
Pollard, William E.	21	Ramoni, Marco	97, 435	Rigsby, John T.	64, 111, 218
Polson, Nicholas	60	Ramsey, Dawn M.	314	Riley, Kathryn P.	157
Poole, W. Kenneth	152	Ramsey, Fred L.	47	Riley, Ward	233
Pooler, Penelope S.	377	Ramsey, Philip H.	376	Rinehart, Debbie	165
Pordugal, Thomas M.	100	Randhawa, Nav	200	Rivers, Douglas	325
Porras, Javier	195	Ranneby, Bo	287	Rivest, Louis-Paul	422
Portnoy, Stephen L.	98	Rao Sahib, Padma	340	Rizzo, Louis	196
Pötscher, Benedikt M.	175	Rao, J. Sunil	175	Ro, Sunhee K.	384
Potter, Frank	28, 162, 225, 399	Rao, Jon N.K.	229	Roan, Jennifer J.	264
Pounds, Stanley B.	88, 110	Rao, Manlong	27, 200	Robbins, Nancy	26
Powell, Elaine	201, 249	Rao, Marepalli B.	443	Roberson, Paula K.	121
Powers, Mary	111	Rao, Sowmya R.	382, 389	Robert, Christian	33
Powers, Randall	441	Rao, Youlan	20	Roberts, Gareth	33
Prado, Raquel	198	Rao-Melacini, Purnima	437	Roberts, Georgia R.	26, 391
Pratt, William R.	10	Rashid, Mushfiqur	437	Robins, James	99, 143
Preisler, Haiganoush K.	146	Rässler, Susanne	150	Robinson, Jeffrey A.	48, 350
Press, S. James	93, 165, 414	Rathouz, Paul J.	43	Robinson, John	51
Prevost, Ron	61, 267	Raudenbush, Stephen W.	199, 271	Robinson, Kim	185
Price, Alan	300	Ravishanker, Nalini	84, 266	Robinson, Timothy J.	211, 331
Price, Karen L.	218	Ray, Bonnie K.	232, 266	Robison, Edwin L.	23
Price, William J.	227	Ray, Surajit	276	Rocco, Gian	287
Priebe, Carey	425	Raychaudhuri, Aparna	163	Rocke, David M.	35, 363
Prinzie, Anita	192	Reck, Brian H.	166	Rodriguez, Robert N.	18
Prior, Stephen	65	Redden, David	326	Rogard, Erwann	386
Priore, Roger L.	121	Reese, C. Shane	189	Roitt, Simon	200
Proietti, Tommaso	214	Reeti, Tandon	27	Rolka, Henry R.	323
Prokop, Jennifer L.	268	Regoli, Andrea	371	Romeu, Jorge L.	120
Pruenster, Igor	147	Reich, Brian J.	272	Ronchetti, Elvezio	224
Pulliam, Paul	412	Reichmuth, Howard	434	Rope, Daniel J.	129, 241, 352
Qian, Guoqi	417			Rosa, Guilherme J.M.	200



# INDEX OF JSM PRESENTERS

Rosage, Laura R. . . . .	334	Sandberg, Sonja . . . . .	66	Schweder, Tore . . . . .	139
Rosen, Amy K. . . . .	295	Sands, Robert D. . . . .	58	Schwenke, Carsten . . . . .	383
Rosen, Ori . . . . .	27	Sangster, Roberta L. . . . .	41, 245	Scinto, Philip R. . . . .	240
Rosen, Richard . . . . .	411	Sanil, Ashish . . . . .	232, 418	Sclove, Stanley L. . . . .	86
Rosenberg, Philip S. . . . .	184	Sankoh, Abdul J. . . . .	339	Scollnik, David . . . . .	379
Rosenberger, James L. . . . .	120, 315	Sanmartin, Claudia . . . . .	321	Scott, Jimmie B. . . . .	400
Rosenfield, Robert L. . . . .	152	Sanso, Bruno . . . . .	373	Scott, Stuart . . . . .	178, 329
Rosenthal, Jeffrey . . . . .	33	Santner, Thomas J. . . . .	20, 67, 432	Seaman, John W. . . . .	121, 218
Rosner, Bernard A. . . . .	341, 439	Santos, Robert . . . . .	399	Seaman, Jr., John . . . . .	233
Rosner, Gary L. . . . .	302, 333	Santra, Sourav . . . . .	438	Seastrom, Marilyn M. . . . .	181
Ross, Christine . . . . .	345	Sargent, Daniel . . . . .	264	Sebastiani, Paola . . . . .	97, 435
Ross, Nancy . . . . .	321	Sarkar, Sanat K. . . . .	86, 271, 274	Sedransk, J. . . . .	89
Rosset, Saharon . . . . .	364	Sarker, Ashutosh . . . . .	314	Seeman, Matthew . . . . .	392
Rossman, Allan . . . . .	375	Sashegyi, Andreas . . . . .	402	Segal, Mark . . . . .	363
Rosychuk, Rhonda J. . . . .	82, 101	Sass, Marcia M. . . . .	191	Sego, Landon . . . . .	201, 429
Rothman, Edward D. . . . .	254	Satagopan, Jaya M. . . . .	72, 184	Seifu, Yodit . . . . .	435
Rotnitzky, Andrea . . . . .	143	Sathe, Neeraja . . . . .	215	Seillier-Moiseiwitsch, Francoise . . . . .	8, 30, 43, 104, 383, 423
Rotz, Wendy . . . . .	159, 275	Satten, Glen . . . . .	395, 427	Self, Steve G. . . . .	198
Rouder, Jeff . . . . .	299	Sayer, Bryan . . . . .	293	Sell, Randall . . . . .	292
Roulston, Mark S. . . . .	365	Sayre, James . . . . .	117	Sellmann, Meinolf . . . . .	377
Rousseuw, Peter J. . . . .	98	Scardamalia, Robert . . . . .	170	Seltman, Howard . . . . .	227, 295
Rowe, Daniel B. . . . .	27, 194	Schadt, Eric E. . . . .	37	Seltzer, William . . . . .	367
Rowe, Everton . . . . .	70	Schaefer, Christin . . . . .	195	Selukar, Rajesh . . . . .	329
Rowell, Ginger H. . . . .	375, 396	Schaffer, Jay R. . . . .	233	Selzer, Martin B. . . . .	308
Roy, Anindya . . . . .	30	Scharfstein, Daniel O. . . . .	177	Sen, Ananda . . . . .	189
Roy, Jason . . . . .	102	Schaubel, Douglas E. . . . .	169	Sen, Pranab K. . . . .	91, 110, 224
Royle, Andrew . . . . .	179	Schechter, Susan . . . . .	181, 269	Sen, Saunak . . . . .	37, 363
Rozga, Ante . . . . .	340	Schechtman, Edna . . . . .	279	Sengupta, Bhaskar . . . . .	306
Rubin Bleuer, Susana . . . . .	31, 162	Scheike, Thomas . . . . .	393	Senturk, Deniz . . . . .	24
Rubin, Donald B. . . . .	212, 390	Schell, Michael J. . . . .	122, 148	Sepanski, Jungsywan . . . . .	408, 434
Ruczinski, Ingo . . . . .	80	Schenck, John . . . . .	27	Sepanski, Steven J. . . . .	51
Rueck, Florian . . . . .	189	Schenck, K. . . . .	233	Serban, Mihaela . . . . .	406
Runger, George . . . . .	92, 442	Schenker, Nathaniel . . . . .	1, 95, 150	Serban, Nicoleta . . . . .	221
Russell, J. Neil . . . . .	44	Schervish, Mark J. . . . .	121	Sethuraman, Venkat . . . . .	163
Russell, Lisa . . . . .	165	Scheuren, Fritz J. . . . .	34, 61, 204, 388	Severynse, Jacqueline . . . . .	382
Ruth, R. Jean . . . . .	203, 325	Schild, Milo . . . . .	75	Sha, Naijun . . . . .	45
Rutter, Carolyn M. . . . .	328	Schindler, Eric . . . . .	229	Shaafsma, Melanie . . . . .	345
Ryan, Louise M. . . . .	95, 254, 395	Schlitz, Jacob . . . . .	205	Shafagh, Fallah . . . . .	114
Saavedra, Pedro J. . . . .	278	Schmegner, Claudia . . . . .	230	Shaffer, Michele L. . . . .	439
Sabelli, Hector . . . . .	222	Schmid, Christopher H. . . . .	63	Shafii, Bahman . . . . .	227
Sae-Ung, Smanchai . . . . .	76	Schmidt, Alexandra M. . . . .	373	Shah, Amrik . . . . .	318
Sagae, Masahiko . . . . .	404	Schmidt, Lara . . . . .	65	Shah, Babubhai V. . . . .	162, 391
Saha, Angshuman . . . . .	27	Schmitt, Charles . . . . .	205	Shah, Nagambal . . . . .	120
Saha, Krishna K. . . . .	226	Schmitt, Ketra . . . . .	121	Shamseldin, Elizabeth C. . . . .	272
Sailer, Peter J. . . . .	10	Schneider, Ulrike . . . . .	398	Shang, Nong . . . . .	439
Sain, Stephan R. . . . .	398	Schnell, Rainer . . . . .	150	Shao, Jun . . . . .	140, 273, 438
Salata, Joseph . . . . .	121	Schneller, Eugene . . . . .	83	Shao, Qin . . . . .	231
Salazar, Juan C. . . . .	157	Schoenberg, Frederic P. . . . .	312	Shao, Yongzhao . . . . .	148, 310, 408
Salgo, Miklos . . . . .	156	Schoenfeld, David . . . . .	415	Sharma, Inder . . . . .	16
Salomon, Ronald M. . . . .	21	Scholetzky, Wendy J. . . . .	313	Sharp, John T. . . . .	101
Salvo, Joseph J. . . . .	103, 170	Scholz, Fritz . . . . .	432	Sharpe, Norean R. . . . .	90
Salvucci, Sameena M. . . . .	152, 199, 267	Schonlau, Matthias . . . . .	149	Shaughnessy, Gerald J. . . . .	314
Samaniego, Francisco J. . . . .	98	Schover, Leslie R. . . . .	233	Shaw, Dale . . . . .	233
Samaranayake, V. A. . . . .	277	Schrag, Deb . . . . .	328	Shay, David . . . . .	392
Samia, Noelle I. . . . .	222	Schroeder, Friedhelm . . . . .	225	Shayib, Mohammed . . . . .	224
Sammel, Mary D. . . . .	102, 157	Schucany, William R. . . . .	78	Sheather, Simon J. . . . .	188
Sampson, Allan R. . . . .	12, 27, 93	Schuckers, Michael E. . . . .	224	Shelley, II, Mack C. . . . .	277
Samuel, John V. . . . .	404	Schuler, Jonathon . . . . .	116	Shelton, Brent . . . . .	254
Samuelson, Douglas A. . . . .	65, 135	Schulman, Robert S. . . . .	70	Shen, Frank . . . . .	42
Sanchez, Juana . . . . .	161	Schupp, Clayton W. . . . .	345	Shen, Meiyu . . . . .	307
Sanchez, M. Matilde . . . . .	119	Schwager, Steven J. . . . .	224	Shen, Shuyi . . . . .	233
Sanchez-Guisandez, Maria M. . . . .	146	Schwanz, Dennis . . . . .	400		

- Shen, Wei ..... 221  
Shen, Yu ..... 200, 219  
Shen, Yun ..... 337  
Sheng, Dan ..... 413  
Sheng, Haihong ..... 425  
Sheng, Xiaoming ..... 82  
Sheriff, Steven L. .... 14  
Sherrill, Tim ..... 205  
Shi, Qiuhu ..... 163  
Shi, Tao ..... 62  
Shields, Jennifer ..... 162  
Shih, Joanna H. .... 114, 264  
Shih, Weichung J. .... 219  
Shih, Ya-Chen T. .... 109, 263  
Shimizu, Iris ..... 229  
Shin, Dong Wan ..... 314  
Shin, Hee-Choon ..... 162  
Shin, Yongyun ..... 271  
Shipp, Kenneth ..... 159  
Shipp, Stephanie ..... 40, 411, 434  
Shiung, Maria M. .... 56  
Shnaidman, Michael ..... 220  
Shoemaker, Owen J. .... 434  
Shokeen, Priti ..... 295  
Shoptaw, Steven ..... 86, 273  
Short, Margaret B. .... 272  
Short, Thomas H. .... 359  
Shoultz, Gerald ..... 272  
Shulman, Holly B. .... 342  
Shulman, Stanley A. .... 314  
Shults, Justine ..... 113  
Shuttles, Charles D. .... 41, 296  
Siddique, Juned ..... 409  
Sidik, Kurex ..... 53  
Sieber, W. Karl ..... 314  
Siegel, Andrew F. .... 84, 275  
Siegel, Eric R. .... 415  
Siegel, Murray H. .... 39, 248  
Siegl, Peter ..... 121, 318  
Siegmund, Kimberly ..... 144, 384  
Siegrist, David ..... 323  
Sigman, Richard ..... 399  
Sikali, Emmanuel ..... 152  
Sill, Michael W. .... 121  
Silva, Romesh ..... 313  
Simile, Catherine ..... 321  
Simmons, J. E. .... 233  
Simmons, Susan J. .... 427  
Simon, Richard ..... 114, 264, 394  
Simonoff, Jeffrey S. .... 306  
Simpson, Pippa M. .... 28, 415  
Singer, Eleanor ..... 132, 195  
Singer, Joel ..... 402  
Singh, Avinash ..... 28, 69, 229, 260  
Singh, Harshinder ..... 22  
Singh, Karan P. .... 233  
Singh, Kesar ..... 139  
Singh, M.P. .... 387  
Singh, Murari ..... 314  
Singh, Rajendra P. .... 206  
Singh, Sarjinder ..... 52  
Sinha, Bikas K. .... 163  
Sinha, Debajyoti ..... 112, 266, 381  
Sinsheimer, Janet ..... 166  
Sirken, Monroe G. .... 387  
Sitter, Randy ..... 140, 230, 441  
Siu, Cynthia ..... 29  
Sivaganesan, Siva ..... 381  
Skalland, Ben ..... 26  
Skipper, Betty K. .... 374  
Slanta, John G. .... 79  
Slap, Gail ..... 381  
Slate, Elizabeth H. .... 90  
Slattery, Daniel ..... 267  
Slavkovic, Aleksandra ..... 172  
Sloah, Jeff A. .... 148  
Sloughter, James M. .... 111  
Slud, Eric V. .... 215  
Sly, David ..... 152  
Small, Christopher G. .... 288  
Small, Dylan ..... 265, 311, 431  
Small, Mitchell ..... 121  
Smith, Brian P. .... 318  
Smith, David R. .... 377  
Smith, Eric P. .... 231, 298, 377  
Smith, Gary ..... 297  
Smith, Heather S. .... 153, 248  
Smith, Jeremy ..... 205  
Smith, John T. .... 90  
Smith, Michelle D. .... 314  
Smith, Nancy D. .... 70  
Smith, Ralph C. .... 32  
Smith, Richard L. .... 130, 174, 272  
Smith, Robert A. .... 305  
Smith, Steven ..... 186  
Smith, Tom W. .... 252  
Smith, Woolcott ..... 94  
Smyth, Padhraic ..... 381  
Snavely, Duane ..... 193, 438  
Snee, Ron ..... 153  
Snider, John S. .... 205  
Snowdon, David A. .... 157  
Snyder, James ..... 381  
Sobel, Milton ..... 304  
Soicher, Leonard ..... 127  
Solenberger, Peter W. .... 389  
Soley, Bonita J. .... 111  
Solk, Darin T. .... 23  
Solka, Jeffrey L. .... 111, 218  
Solo, Victor ..... 11  
Solomon, Patty ..... 174  
Solorzano, Eleanne ..... 53  
Solow, Andrew R. .... 94  
Sommers, John ..... 77, 342  
Sonesson, Christian ..... 338  
Song, Hae-Ryoung ..... 85, 374  
Song, Juwon ..... 150, 233  
Song, Kaisheng ..... 115  
Song, Peter ..... 288  
Song, Seongho ..... 227  
Song, Shuguang ..... 426  
Soofi, Ehsan S. .... 74  
Soper, Keith A. .... 305  
Sotherland, Paul ..... 90  
Soyer, Refik ..... 200, 227, 266  
Spady, Richard ..... 137  
Spar, Edward ..... 1, 237  
Spasoff, Robert A. .... 31  
Spears, Marty ..... 389  
Speckman, Paul L. .... 74, 106, 299  
Spence, Jeff ..... 78  
Speroff, Theodore ..... 21  
Spiegelman, Cliff ..... 250, 358  
Spiegelman, Donna ..... 354  
Spinka, Christy ..... 201  
Spring, Fred ..... 86  
Spitzner, Dan ..... 116  
Spotila, James ..... 90  
Sprinkle, Richard L. .... 308  
Sridharan, Sanjeev ..... 225  
Srinath, Kadaba ..... 183  
Srivastava, Muni S. .... 151  
Stafford, Jamie ..... 360  
Stangl, Dalene ..... 124  
Stapleton, Ann ..... 427  
Starbuck, Robert R. .... 370  
Stare, Janez ..... 307  
Stasny, Elizabeth A. .... 180, 216  
Stavely, Jane M. .... 197  
Stec, Jeffrey A. .... 296  
Stedl, John L. .... 19  
Steeh, Charlotte ..... 105  
Steel, Philip M. .... 71, 403  
Steele, Brian M. .... 261  
Stefanescu, Catalina ..... 308  
Stefanski, Leonard A. .... 190  
Steibel, Juan P. .... 200  
Stein, Michael L. .... 47, 59, 85, 324  
Stenseth, Nils C. .... 87, 222  
Stephens, Monica ..... 120  
Stephenson, Jr., James L. .... 88  
Stephenson, W. Robert ..... 39, 345  
Stern, Hal ..... 250, 299, 381  
Stern, Michael P. .... 17  
Stern, Steven E. .... 17  
Sternberg, Maya ..... 87  
Stetser, Marie ..... 279  
Stevens, John R. .... 200, 345  
Stevenson, Joan ..... 90  
Stewart, John ..... 159  
Stewart, Paul W. .... 224  
Stewart, Scott ..... 410  
Stigler, Stephen M. .... 145  
Stinson, Martha H. .... 44  
Stokes, S. Lynne ..... 418  
Stolar, Marilyn ..... 157  
Stolove, Renee ..... 357  
Stone, Eric A. .... 223  
Stouffer, Nicole O. .... 112  
Stoumbos, Zachary G. .... 49, 314  
St-Pierre, Martin ..... 433  
Strange, Paul ..... 149  
Stratton, Howard H. .... 56  
Stratton, Jeffrey H. .... 196, 400  
Strauss, Warren J. .... 85, 95  
Strawderman, William E. .... 139

# INDEX OF JSM PRESENTERS

Streisand, Jim	101	Tan, Ming T.	219, 305	Thurston, Sally W.	72, 395
Streit, Franz	51	Tang, Jing	19	Thyagarajan, Jayanth	49
Stromberg, Arnold J.	35	Tang, Liansheng	200	Tian, Guoliang	305
Stroomer, Chad N.	308	Tang, Man Lai	311	Tian, Xin	184
Stroud, Jonathan R.	208, 373	Tang, On Yee	82	Tian, Ying	337
Stroup, Donna F.	75	Tang, Shenghui	291	Tiao, George C.	145
Strudler, Michael	10	Tango, Toshiro	16, 343	Tibshirani, Rob	322, 364
Stuart, Elizabeth A.	327	Tanur, Judith M.	165	Tierney, Luke	284
Stufken, John	174	Taper, Mark L.	362	Tilkin, Michael S.	36
Stukel, Therese	126, 177, 238, 295, 346	Taqqu, Murad S.	233	Tiller, Richard B.	26, 215
Styan, George	67	Tarima, Sergey S.	271	Tin, Jan	76
Su, Guoqin	405	Taug, Man-Lai	119	Tinajero, Roberto	308
Suarez-Farinas, Mayte	88	Taug, Nian-Sheng	119	Tiwari, Hemant K.	326
Subramanian, Sundar	435	Tavani, Christopher M.	335	Tiwari, Ram C.	215, 384
Suchard, Marc A.	15	Taylor, Elizabeth A.	3	Tobias, Randy	205
Sudjianto, Agus	251	Taylor, Jeremy M.G.	264, 314	Tobin, William	250
Suess, Eric A.	332, 345	Taylor, Katrina	345	Tole, Lise A.	85
Sui, Dawen	233	Taylor, Robert E.	121	Toledano, Alicia Y.	383
Sukasih, Amang	196	Tebaldi, Claudia	365	Tomazic, Terry	345, 411
Sullivan, Joe H.	49, 314, 316	Tebbs, Joshua M.	200, 424	Tong, Yung L.	67
Sullivan, Mary	154	Tempelaar, Dirk	280	Tourangeau, Roger	3, 165, 181, 195, 204, 300
Sullivan, Patrick	412	Tempelman, Robert J.	200	Touzani, Mourad	162, 200, 399, 433
Suman, Vera	264	Temple, Robert	142	Town, Michelle	433
Sun, Dongchu	14, 74, 106, 299	Temple, Scott	200	Tracy, Ronald L.	442
Sun, Guowen (Gordon)	368	Tenenbein, Aaron	234	Tran, Bac	400
Sun, Jiayang	53, 113	Teng, Chi-Hse	310	Tranbarger, Katherine E.	312
Sun, Junfeng	405	Teng, Siew L.	194	Trepanier, Julie	213
Sun, Wanjie	302	Tenhave, Thomas R.	265	Trimbur, Thomas	108
Sun, Wei	88	Terhanian, George	149	Tripodis, Georgios	57
Sun, Xiaodong	425	Ter-Minassian, Monica	184	Tritchler, David L.	114
Sun, Zhuoxin	27	Terpstra, Nate	205	Trivisano, Carlo	278
Sundaram, Rajeshwari	118	Terrell, George R.	443	Trofimovich, Lily	433
Sung, Minje	200	Terrin, Norma	21, 63	Trosset, Michael W.	218
Sussman, Nancy B.	81	Teuschler, Linda K.	233	Troxell, John K.	193
Sverchkov, Michael	178, 196, 389	Thabane, Lehana	155, 439	Trumbo, Bruce E.	345
Sverdlov, Lev S.	152	Thaden, John	415	Tsai, Chen-An	155
Svetnik, Vladimir	88	Thall, Peter F.	142	Tsai, Guei-Feng	415
Swall, Jenise	373	Thas, Olivier	110	Tsai, Henghsiu	161
Swallow, William H.	79	Thavaneswaran, Aerambamoorthy	22, 314	Tsai, Kao-Tai	121
Swanson, David A.	170	Therneau, Terry M.	415	Tsai, Miao-Yu	385
Swartz, Michael D.	45	Thibaudeau, Yves	44	Tsay, Jia-Yeong	70
Swartz, Richard	263	Thiebaut, Rodolphe	157	Tseng, Chi-hong	413
Swift, Andrew W.	256	Thiel, David	39	Tseng, George C.	225
Sy, Francisco	382	Thiel, Linda C.	18	Tsiatis, Anastasios A.	143
Sy, Oumar S.	83	Thomas, Brad W.	9	Tsong, Yi	119, 155
Symanzik, Juergen	280, 352	Thomas, Charles	177	Tsuji, Wayne	368
Sype, Russ	49	Thomas, Duncan	166	Tu, Shu-Yi	232
Szatmari-Voicu, Daniela	54	Thomas, Elizabeth	224	Tu, Xin M.	378
Szwarc, Suzanne E.	384	Thomas, Fridtjof	48	Tucker, Clyde	162, 183, 237, 267, 399
Tabuchi, Tracy	387	Thomas, Kenneth T.	21	Tucker, Phebe	409
Taddei, José Augusto A.C.	90	Thomas, Neal	95, 220	Tupek, Alan R.	181
Tadesse, Mahlet G.	45, 97	Thomas, Steven	401	Turlach, Berwin A.	364
Taeuber, Cynthia	197	Thompson, Gavin	309	Turmelle, Claude	309
Tai, Julia Y.	90	Thompson, Jeffrey R.	312	Turner, Elizabeth L.	50
Taillie, Charles	287	Thompson, John	300	Turner, Joanna M.	369
Takahara, Glen	90	Thompson, Katherine	401, 441	Turner, John C.	25
Takahashi, Kunihiro	16	Thompson, Laura A.	182	Tyas, Suzanne L.	157
Takken, Asya	304	Thompson, Steven K.	34, 231	Tzavidis, Nikolaos	26, 216
Talukder, Enayet	220	Thompson, William W.	392	Umbach, David M.	72, 207
Tam, Raymond	191	Thorpe, Lorna	160	Umphrey, Gary J.	261
Tamura, Roy	29	Thorpe, Sherry E.	400	Urquhart, N. Scott	47
Tan, Charles Y.	305	Thran, Sara	356	Ussawarujikulchai, Ampai	233



Utlaut, Theresa	232	Waikar, Vasant	51, 90	Washington, Katrina	76
Utts, Jessica	270	Wainer, Howard	319	Wassell, James	43
Vahl, Christopher I.	337	Waite, Preston J.	206	Wasser, Thomas	409
Vaish, Akhil	215	Wakefield, Jon C.	198	Wasserman, Larry	221
Valliant, Richard	138	Waksberg, Joseph	290	Wathen, Jay K.	262
Van Auken, Paul M.	170	Walker, Deborah	412	Watkin, John	405
van Ballegooijen, Marjolein	328	Walker, Esteban	50	Watkins, Wade	425
van Beers, Cees	285	Walker, John H.	248	Watterberg, Kristi L.	439
van den Berghe, Douglas	285	Wall, Melanie M.	102	Waugh, Shawna L.	313
Van den Bossche, Filip A.M.	427	Waller, Lance A.	87, 173	Webb, Derek F.	211
Van den Poel, Dirk	192, 325	Wallman, Katherine K.	181, 269, 403	Weber, Michael E.	10
van der Laan, Mark	194, 223, 303	Wallstrom, Garrick L.	89	Wedel, Michel	203
van der Vaart, Aad	143	Walters, Eli	223	Wee, Christina	117
van Dyk, David A.	11, 59, 381	Walters, Elizabeth	345	Weeks, Jane C.	328
van Es, Cindy L.	377	Wan, Ying	156	Weems, Kimberly S.	120, 190
van Es, Harold M.	377	Wang, Andrew	40, 411	Weerahandi, Samaradasa	13
Van Keilegom, Ingrid	420, 426	Wang, Chen-Pin	407	Wegman, Edward J.	64
Van Mullekom, Jennifer H.	13, 128, 240, 351	Wang, Chih-Ming	115	Wei, L. J.	370
Van Ness, Peter H.	152	Wang, Donghui	69	Wei, Rong	344
van Tulder, Rob	285	Wang, Gene-Jack	27, 200	Wei, Wei	169
van Witteloostuijn, Arjen	340	Wang, Haiyan	341	Wei, William W.S.	57
Van Zandt, Trisha	299	Wang, Hansheng	140	Wei, Ying	222
VanBrackle, Lewis	443	Wang, Hongkun	112	Weiers, Ronald M.	154
Vandal, Alain C.	50, 413	Wang, Huei	382	Weigand, Stephen D.	56
Vanden Branden, Karlien	98	Wang, Hui	43	Weinberg, Clarice R.	72, 207
Vander Wiel, Scott	80	Wang, Jane-Ling	143	Weinberg, Daniel	245
Vannucci, Marina	45, 97, 115	Wang, Jen-Ting	25, 232	Weinstein, Joan	185
Varaiya, Pravin	115	Wang, Jiannong	438	Weinstein, Milton C.	328
Varbanov, Alex	42	Wang, Jing	158	Weintraub, Eric	392
Vargas, Hugo	318	Wang, Kan	227	Weinzimer, Robert	277
Vartivarian, Sonya L.	342	Wang, Lan	341	Weir, Bruce	326
Veen, Alejandro	312	Wang, Lin	273	Weir, Paula E.	441
Velasco, Carlos	57	Wang, Liqun	435	Weiss, Robert E.	15, 198, 385
Velilla, Santiago	306	Wang, Lu	264	Welch, Kathleen B.	233
Vengazhiyil, Roshan J.	232	Wang, Mei-Cheng	169	Welch, William J.	361
Venkatraman, E.S.	72, 82, 184, 223	Wang, Meng	27	Wells, Henry	433
Ventre, John R.	200	Wang, Naisyin	2, 113	Wells, III, William M.	27
Ventura, Valerie	59	Wang, Ouhong	156	Welty, Leah J.	59
Ver Hoef, Jay M.	173, 242	Wang, Steve C.	59, 94, 136	Wen, Miin-jye	116, 404
Verbeke, Geert	156, 385	Wang, Sudan	314	Wen, Shuhui	423
Verbitsky, Natalya	199	Wang, Sue-Jane	123, 338, 394	Wen, Xuerong	306
Veroff, Daniel L.	170	Wang, Suojin	24, 225	Wenbin, Cui	146
Viana, Marlos A.G.	274	Wang, William W.B.	437	Wenck, Stephen R.	197, 267
Vidmar, Thomas	307	Wang, Xiao	19, 251	Wendelberger, Joanne R.	337
Vilhuber, Lars	171	Wang, Xiaofeng	113	Wennberg, David	177
Vincelette, Jean	303	Wang, Xiaojing	438	Werking, George S.	244
Vindevogel, Bernd	325	Wang, Xuena	114	West, Brady T.	233
Vining, Geoff	211	Wang, Yao	376	West, Sheila	177
Vishnuvajjala, Lakshmi	123, 182	Wang, Yibin	29, 220	West, Webster	13
Vogel, Frederic A.	252	Wang, Yong-Cheng	291	Westfall, Peter H.	29
Vogelaar, Iris	328	Wang, Yonghua	123, 305	Westlake, Matthew	88, 229
Vogt, Andrew	389	Wang, Yuanjia	166	Wetrogan, Signe I.	1
Volkow, Nora D.	27, 200	Wang, Yuanyuan (Marcia)	96	Wets, Geert	86, 325, 427
Von Wachter, Till	159	Wang, Yuchung J.	425	Wheatcroft, Gloria	293
Voss, Paul R.	170	Wang, Yu-Sheng	164	Wheway, Virginia L.	59
Vukasinovic, Natascha	43, 114, 280	Wang, Zhu	314	White, Andrew	138, 191
Wacholder, Sholom	166, 382	Wang, Zilin	360	White, Donald B.	259
Wade, Angie	407	Warde, William	53	White, Jr., Glenn D.	204
Waggoner, Daniel	14	Wardrop, Denise	287	Whiteside, Mary M.	57, 275
Wagner, Gert G.	195, 279	Warfield, Simon K.	27	Whitford, David C.	206
Wahba, Grace	303	Warren, Gregory	432	Whitmore, James	368
Wahed, Abdus S.	424	Warren, Rueben	61	Whitney, Paul	111

# INDEX OF JSM PRESENTERS

Whittinghill, Dexter C. . . . .	396	Woodburn, Cynthia . . . . .	25	Yan, Mingjin . . . . .	90
Widen, Judy . . . . .	302	Woodrooffe, Michael . . . . .	19, 379	Yan, Ting . . . . .	165, 412
Wiens, Brian L. . . . .	29, 405	Woodrow-Lafield, Karen A. . . . .	9	Yan, Xin . . . . .	384
Wigley, Tom M.L. . . . .	398	Woodruff, Stephen . . . . .	162, 388	Yancey, William E. . . . .	100
Wikle, Christopher K. . . . .	5	Woodward, Wayne A. . . . .	78, 161, 314	Yandell, Brian S. . . . .	326
Wiley, Thelma E. . . . .	424	Woolfitt, Adrian . . . . .	427	Yang, Grace . . . . .	440
Wilkins, Kenneth J. . . . .	157	Wosman, Richard . . . . .	345	Yang, Harry . . . . .	194, 221, 338
Wilkinson, Leland . . . . .	284	Wouhib, Abera . . . . .	277	Yang, J. Jimmy . . . . .	84
Willan, Andrew R. . . . .	109	Wright, Deanne L. . . . .	223	Yang, Jie . . . . .	22
Willavize, Susan A. . . . .	438	Wright, Douglas . . . . .	69	Yang, Jinhee . . . . .	275
Willborn, Steven L. . . . .	38	Wright, George . . . . .	264	Yang, Ke . . . . .	53
Willemain, Thomas R. . . . .	80	Wright, James . . . . .	278	Yang, Mark C.K. . . . .	189
Williams, Andre L. . . . .	79, 195, 387	Wright, Peter G. . . . .	309, 325	Yang, Michael . . . . .	278
Williams, Calvin . . . . .	270	Wright, Tommy . . . . .	370	Yang, Min . . . . .	230
Williams, David K. . . . .	224	Wu, C.F. Jeff . . . . .	88, 174, 232, 251, 337	Yang, Peiling . . . . .	291
Williams, James D. . . . .	49, 316	Wu, Changbao . . . . .	379	Yang, Ruoyong . . . . .	380
Williams, Ken . . . . .	17	Wu, Chengqing . . . . .	311	Yang, Tae . . . . .	266
Williams, Paul D. . . . .	17, 277	Wu, Chien-Hua . . . . .	164	Yang, Wan-Youn . . . . .	438
Williams, Paul S. . . . .	206	Wu, Colin O. . . . .	113, 143	Yang, Xiaowei . . . . .	86, 273
Williams, Quatracia . . . . .	401	Wu, Dongfeng . . . . .	302	Yang, Yang . . . . .	216
Williams, Stephen . . . . .	79	Wu, Hulin . . . . .	2	Yang, Ying . . . . .	333, 414
Williams, Todd R. . . . .	400	Wu, J. S. . . . .	268	Yang, Yonghe M. . . . .	412
Williamson, G. David . . . . .	374, 392	Wu, Jiang-Ming J. . . . .	437	Yang, Yuhong . . . . .	190, 379
Williamson, John M. . . . .	119	Wu, Jianrong . . . . .	408, 438	Yang, Yuqing . . . . .	383
Willimack, Diane . . . . .	399	Wu, Jun . . . . .	90	Yansaneh, Ibrahim S. . . . .	28
Wills, Graham . . . . .	241	Wu, Lang . . . . .	435	Yao, Lihua . . . . .	187
Wills, Kellie . . . . .	73, 108	Wu, Meng . . . . .	427	Yarbrough, Brandy . . . . .	441
Wilson, Craig A. . . . .	276, 311	Wu, Samuel S. . . . .	379	Yashchin, Emmanuel . . . . .	304, 429
Wilson, Daniel . . . . .	90	Wu, Shiyang . . . . .	276	Yasna, Orellana . . . . .	151
Wilson, David H. . . . .	69	Wu, Xiaoling . . . . .	310	Yau, C. Lillian . . . . .	341, 413
Wilson, Dylan . . . . .	205	Wu, Ying Nian . . . . .	11	Ye, Kenny Q. . . . .	421
Wilson, Erin . . . . .	23	Wu, Yujun . . . . .	190	Ye, Keying . . . . .	231, 298, 331
Wilson, Jeffrey R. . . . .	83, 385	Wu, Yuping . . . . .	201	Ye, Wen . . . . .	314
Wilson, Meagan . . . . .	400	Wu, Zhou . . . . .	308, 378	Ye, Yumei . . . . .	114
Wilson, Patricia S. . . . .	209	Wuebbles, Donald . . . . .	47	Yen, C.H. . . . .	268
Winglee, Marianne . . . . .	412	Wun, Lap-Ming . . . . .	77, 399	Yen, James H. . . . .	428
Winkler, William E. . . . .	9, 44, 171, 404	Xi, Bowei . . . . .	115	Yen, Wei . . . . .	58, 165, 197
Winter, Joachim . . . . .	149	Xia, Gangqiang . . . . .	272	Yeung, Anthony . . . . .	86
Wintz, Nicholas J. . . . .	410	Xie, Changchun . . . . .	341	Yi, Grace Y. . . . .	169
Wise, Cynthia . . . . .	36	Xie, Dawei . . . . .	107	Yi, Yeonjoo . . . . .	273
Wise, Ric . . . . .	411	Xie, Fang . . . . .	310	Yin, Ming . . . . .	436
Wisniewski, Lorel . . . . .	434	Xie, Jingdong . . . . .	305	Yin, Xiangrong . . . . .	276
Wisniewski, Mary . . . . .	304	Xie, Jun . . . . .	221	Ying, Lisa H. . . . .	88
Wit, Ernst C. . . . .	194	Xie, Minge . . . . .	139	Ying, Zhiliang . . . . .	220, 307
Witt, Whitney . . . . .	83	Xie, Sunney . . . . .	141	Yitzhaki, Shlomo . . . . .	279
Witte, John S. . . . .	394	Xie, Tailiang . . . . .	291	Yoo, Jae Keun . . . . .	306
Wittes, Janet . . . . .	257	Xie, Xianjin . . . . .	50	Yoo, Wonsuk . . . . .	90
Wittkowski, Knut M. . . . .	88, 410	Xin, Xue . . . . .	233	Yoshimura, Osamu . . . . .	149
Wobus, Diana Z. . . . .	77	Xing, Biao . . . . .	220, 223	Yost, Kathleen . . . . .	233
Wolfe, Douglas . . . . .	180	Xing, Guan . . . . .	376	You, Jinhong . . . . .	207
Wolfe, Mitchell L. . . . .	412	Xing, Jun . . . . .	150, 194	You, Yong . . . . .	215
Wolfe, Patrick J. . . . .	147	Xiong, Chengjie . . . . .	338	Young, Fanesca . . . . .	166
Wolfe, Robert A. . . . .	83	Xiong, Xiaoping . . . . .	219	Young, John C. . . . .	49, 314
Wolfinger, Russell D. . . . .	163, 274	Xu, Hong . . . . .	342	Young, Linda J. . . . .	320, 372, 390
Wolter, Kirk M. . . . .	252	Xu, Jianglin . . . . .	83	Young, Rebecca . . . . .	292
Wong, Augustine . . . . .	408	Xu, Li-an . . . . .	419	Young, S. Stanley . . . . .	194, 361, 419
Wong, Emelita L. . . . .	56	Xu, Yaomin . . . . .	50, 415	Yozgatligil, Ceylan . . . . .	57
Wong, Kar . . . . .	88	Xu, Zhiheng . . . . .	380	Yu, Bin . . . . .	62
Wong, Weng Kee . . . . .	101	Yakovlev, Andrei Y. . . . .	417	Yu, Chong Ho . . . . .	25
Wong, Wing H. . . . .	322	Yamagata, Ryan . . . . .	221	Yu, Feng . . . . .	69
Woodall, William H. . . . .	316	Yan, Guofen . . . . .	89	Yu, J. . . . .	287
Woodard, Roger . . . . .	396	Yan, Jun . . . . .	393	Yu, Jing . . . . .	344

## INDEX OF JSM PRESENTERS

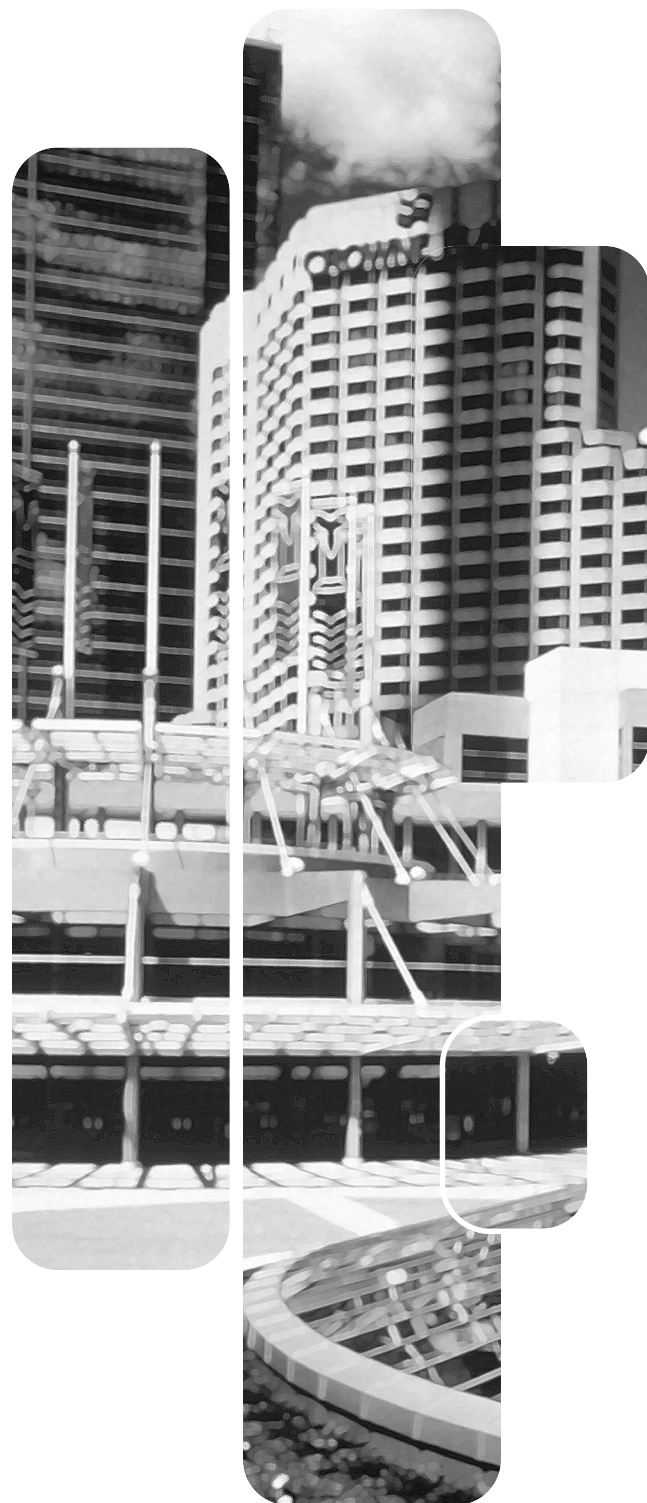
Yu, Kai F. . . . .	311	Zenios, Stefanos . . . . .	308	Zhao, Yichuan . . . . .	228, 380
Yu, Lianbo . . . . .	200	Zerom, Dawit . . . . .	431	Zhen, Boguang A. . . . .	368
Yu, Menggang . . . . .	228	Zha, Tao . . . . .	14	Zheng, Gang . . . . .	184
Yu, Onchee . . . . .	328	Zha, Wenxing . . . . .	293, 344	Zheng, Hui . . . . .	278
Yu, Ping . . . . .	152, 199	Zhan, Eway Y. . . . .	88	Zheng, Ming . . . . .	218
Yu, Qiqing . . . . .	22	Zhan, Xiaojiang . . . . .	341	Zheng, Tian . . . . .	43, 384
Yu, Shui . . . . .	81	Zhang, Baohui . . . . .	83	Zheng, Yuhong . . . . .	433
Yu, Tianwei . . . . .	88	Zhang, Daowen . . . . .	289	Zhong, Xiaogang . . . . .	97
Yu, William W. . . . .	77	Zhang, Donghui . . . . .	221, 339	Zhou, Haibo . . . . .	95, 175, 207
Yu, Yan . . . . .	84, 308, 378	Zhang, Guangyu . . . . .	150	Zhou, Jianhui . . . . .	276
Yu, Zhaoxia . . . . .	45	Zhang, Hao H. . . . .	312, 317, 364	Zhou, Lan . . . . .	143
Yuan, Weishi . . . . .	113	Zhang, Huiyi . . . . .	298	Zhou, Lifen . . . . .	156
Yuan, Yan . . . . .	361, 432	Zhang, Jialu . . . . .	383, 415	Zhou, Mai . . . . .	158
Yuan, Ying . . . . .	162	Zhang, Juan (Joanne) . . . . .	119, 155	Zhou, Tianhui . . . . .	271
Yuan, Yong . . . . .	31	Zhang, Ke . . . . .	194	Zhou, Weining . . . . .	373
Yucel, Recai M. . . . .	28	Zhang, Nibiao . . . . .	19	Zhou, Xian . . . . .	333
Yue, Ching-Syang J. . . . .	16	Zhang, Nien Fan . . . . .	429	Zhou, Xiao-Hua A. . . . .	243, 383, 409
Yue, Lilly . . . . .	182	Zhang, Paul . . . . .	380	Zhu, Ji . . . . .	364
Yung, Wesley . . . . .	213, 401	Zhang, Ping . . . . .	406	Zhu, Lei . . . . .	274
Zablotska, Lydia . . . . .	17	Zhang, Qing J. . . . .	273	Zhu, Mu . . . . .	116, 427
Zacks, Shelemyahu . . . . .	372	Zhang, Rui . . . . .	158	Zhu, Song-Chun . . . . .	11, 80
Zahn, Doug . . . . .	153	Zhang, Shenghai . . . . .	87	Zhu, Ting . . . . .	203
Zamar, Ruben . . . . .	54	Zhang, Song . . . . .	14	Zhu, Wei . . . . .	27, 114, 157, 187, 200, 407
Zang, Edith A. . . . .	200	Zhang, Wei . . . . .	264	Zhu, Young . . . . .	163
Zarate, Alvan O. . . . .	367, 403	Zhang, Weimin . . . . .	225	Zhu, Yu . . . . .	276, 407
Zaslavsky, Alan . . . . .	177, 278, 327, 367, 397	Zhang, Xi . . . . .	228	Zhu, Zhengyuan . . . . .	174, 233
Zaslavsky, Boris G. . . . .	338	Zhang, Xiao . . . . .	15	Zimmerman, Dale L. . . . .	130, 173, 242, 353
Zauber, Ann G. . . . .	328	Zhang, Xiaohong . . . . .	430	Zimmerman, Earl . . . . .	27
Zayatz, Laura . . . . .	367	Zhang, Yanhong . . . . .	24	Zitter, Meyer . . . . .	197
Zbikowski, Andrew A. . . . .	210	Zhang, Ying . . . . .	116	Zodet, Marc W. . . . .	77, 399
Zeger, Scott L. . . . .	157	Zhang, Zheng . . . . .	383	Zou, Kelly H. . . . .	27
Zelenak, Mary Frances E. . . . .	229, 309	Zhang, Zhengang . . . . .	330	Zucker, David M. . . . .	228
Zeng, Donglin . . . . .	169	Zhao, Jun . . . . .	164	Zumbo, Bruno . . . . .	80
Zeng, Leilei . . . . .	82	Zhao, Lue Ping . . . . .	155, 291	ZuWallack, Randal S. . . . .	433
Zeng, Peng . . . . .	276, 407	Zhao, Peng-Liang . . . . .	405		
Zeng, Zhao-Bang . . . . .	37	Zhao, Yang . . . . .	207, 435		

## INDEX OF CE INSTRUCTORS

An, Anthony . . . . .	CE_34T	Hoerl, Roger . . . . .	CE_06C	Pickles, Andrew . . . . .	CE_02C
Aragon-Logan, Elvessa . . . . .	CE_29T	Holland, Burt . . . . .	CE_25C	Piepel, Greg F. . . . .	CE_12C
Atlas, Jennifer . . . . .	CE_35T, CE_38T	Hougaard, Philip . . . . .	CE_26C	Pinheiro, Jose . . . . .	CE_32T
Bailey, Mark . . . . .	CE_37T	Ibrahim, Joseph G. . . . .	CE_22C	Rabe-Hesketh, Sophia . . . . .	CE_02C
Banks, David . . . . .	CE_05C	Lang, Thomas A. . . . .	CE_24C	Rao, Jon N.K. . . . .	CE_01C
Biemer, Paul P. . . . .	CE_15C	Lawson, Andrew B. . . . .	CE_13C	Rosa, Guilherme J.M. . . . .	CE_10C
Brown, G. Gordon . . . . .	CE_29T	Liu, Jun S. . . . .	CE_23C	San�o, Bruno . . . . .	CE_18C
Castelloe, John . . . . .	CE_28T	Lohr, Sharon . . . . .	CE_01C	Skrondal, Anders . . . . .	CE_02C
Chao, Edward C. . . . .	CE_32T	Lyberg, Lars E. . . . .	CE_15C	Snee, Ron . . . . .	CE_06C
Chen, Ming-Hui . . . . .	CE_22C	Marx, Brian . . . . .	CE_17C	Spiegelhalter, David . . . . .	CE_04C
Chen, Sean . . . . .	CE_19C	Mehta, Cyrus R. . . . .	CE_39T	Steinberg, Dan . . . . .	CE_30T, CE_33T, CE_36T
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Duxbury, Thomson . . . . .	.163
Elsevier . . . . .	.79
George Washington University . . . . .	.169
GlaxoSmithKline . . . . .	.55
ISI . . . . .	.85
John Wiley & Sons . . . . .	.103
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MacKichan Software . . . . .	.cover 3
Novartis . . . . .	.115
Oxford University Press . . . . .	.99
Palisade Corporation . . . . .	.159
PPD Development . . . . .	.153
RTI International . . . . .	.59
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SAS . . . . .	.75
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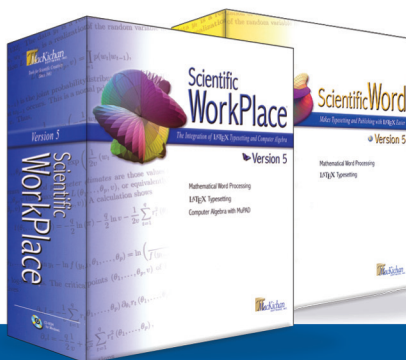
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