Monday, August 8

Tours

9:00 a.m.–12:00 p.m.   MCC-Main Entrance, 2nd Avenue
TR05 - Twin Cities Highlights

Committee/Business Meetings & Other Activities

7:00 a.m.–8:30 a.m.   H-Conrad B
Section on Teaching of Statistics in the Health Sciences Executive Committee Meeting
Chair(s): Walter T. Ambrosius, Wake Forest University School of Medicine

7:00 a.m.–8:30 a.m.   H-Redwing Room
Section on Government Statistics Executive Committee Meeting (closed)
Chair(s): Chester Bowie, Market Strategies, Inc.

7:00 a.m.–8:30 a.m.   H-Director’s Row 4
Section on Health Policy Statistics Executive Committee Meeting (closed)
Chair(s): Carolyn Rutter, Group Health Cooperative; Thomas McLaughlin, University of Massachusetts

7:00 a.m.–8:30 a.m.   H-Nicollet
Survey Review Committee
Chair(s): Polly Phipps, Bureau of Labor Statistics

7:00 a.m.–8:30 a.m.   H-Marquette
ASA SIAM Series Editorial Board (closed)
Chair(s): Martin Wells, Cornell University

7:00 a.m.–8:30 a.m.   H-Conrad A
JABES Management Committee (closed)
Chair(s): Timothy G. Gregoire, Yale University

7:00 a.m.–8:30 a.m.   H-Board Room 2
Committee on Minorities in Statistics (closed)
Chair(s): Nagambal Shah, Spelman College

7:00 a.m.–8:30 a.m.   H-Director’s Row 2
Technometrics Management Committee (closed)
Organizer(s): Karen Kafadar, University of Colorado, Denver

7:00 a.m.–8:30 a.m.   H-Director’s Row 1
Section on Statistical Graphics Executive Committee (closed)
Chair(s): Mario Peruggia, The Ohio State University

7:00 a.m.–8:30 a.m.   H-Rochester
Committee on the ASA Archives and Historical Materials
Chair(s): Rich Allen, U.S. Department of Agriculture

7:00 a.m.–8:30 a.m.   H-Ramsey
The ASA Task Force on Accreditation (closed)
Chair(s): Mary Batcher, Ernst & Young LLP

7:00 a.m.–9:00 a.m.   MCC-206 AB
Committee on Membership Retention and Recruitment (closed)
Chair(s): Dayanand Naik, Old Dominion University

7:00 a.m.–9:00 a.m.   H-Conrad C
Social Statistics Section Executive Committee Meeting (closed)
Chair(s): Gerald Gates, U.S. Census Bureau

7:00 a.m.–10:00 a.m.   H-Conrad D
Committee on Professional Ethics (closed)
Chair(s): William Seltzer, Fordham University

7:00 a.m.–6:00 p.m.   MCC-204 A
Speaker Work Room

7:00 a.m.–6:00 p.m.   MCC-204 B
Speaker Work Room

7:00 a.m.–11:00 p.m.   MCC-Level 1, Registration Lobby
Cyber Café and Message Center

7:30 a.m.–9:00 a.m.   H-Director’s Row 3
Committee on Nominations (closed)
Chair(s): Jeremy Wu, Wu & Associates

7:30 a.m.–9:00 a.m.   H-LaSalle
Carnegie Mellon Alumni and Faculty Breakfast (closed)
Organizer(s): Margaret Smykla, Carnegie Mellon University

7:30 a.m.–6:00 p.m.   MCC-Level 1, Registration Lobby
JSM Main Registration
The ASA Communities Booth
Special Assistance and Press Desk
GENERAL PROGRAM SCHEDULE

8:00 a.m.–9:00 a.m. H-Board Room 3
Council of Chapters ISEF Breakfast (closed)
Chair(s): John Boyer, Kansas State University

8:00 a.m.–9:30 a.m. H-Carver
Committee on Applied Statisticians (open to all ASA members)
Chair(s): Mani Lakshminarayanan, Pfizer, Inc.

8:00 a.m.–4:00 p.m. H-Duluth
ASA/NCTM beyond AP Statistics
Chair(s): James Matis, Texas A&M University

8:00 a.m.–6:00 p.m. MCC-Exhibit Hall C
Career Placement Service

8:00 a.m.–6:00 p.m. MCC-Exhibit Hall C
Exhibitor Lounge

9:00 a.m.–10:00 a.m. H-Rochester
Transportation Statistics Interest Group
Organizer(s): Promod Chandhok, Bureau of Transportation Statistics

9:00 a.m.–10:30 a.m. MCC-L100 F
Academic Program Representatives (closed)
Chair(s): Sastry G. Pantula, North Carolina State University

9:00 a.m.–10:30 a.m. H-Board Room 3
Council of Chapters Governing Board Planning Meeting (closed)
Chair(s): Tom Capizzi, Merck Research Laboratories

9:00 a.m.–11:00 a.m. MCC-L100 H
Advisory Committee on Continuing Education (closed)
Chair(s): Nandini Kannan, The University of Texas at San Antonio

9:00 a.m.–5:00 p.m. MCC-Level 1, Registration Lobby
The ASA Marketplace

10:00 a.m.–6:00 p.m. MCC-Level 1, Registration Lobby
Minneapolis Restaurant Reservations Desk

9:00 a.m.–6:00 p.m. MCC-Exhibit Hall C
EXPO 2005

9:00 a.m.–6:00 p.m. MCC-Exhibit Hall C
The ASA Membership Booth #700

10:00 a.m.–2:00 p.m. MCC-207 AB
JSM 2006 Program Committee Meeting (closed)
Chair(s): Lisa M. LaVange, Inspire Pharmaceuticals, Inc.

10:30 a.m.–11:30 a.m. H-Director’s Row 1
Deming Lectureship Committee Business Meeting (closed)
Chair(s): Randall K.Spoeri, Cerner Corporation

10:30 a.m.–12:00 p.m. H-Board Room 2
Council of Chapters Governing Board Chapter Status Committee Meeting (closed)
Chair(s): Tom Capizzi, Merck Research Laboratories; Ronald L. Wasserstein, Washburn University

10:30 a.m.–12:00 p.m. H-Board Room 3
Council of Chapters Governing Board Executive Committee Meeting (closed)
Chair(s): Tom Capizzi, Merck Research Laboratories; Ronald L. Wasserstein, Washburn University

10:30 a.m.–12:00 p.m. H-Director’s Row 3
Section on Statistical Education Executive Committee (closed)
Chair(s): Robin Lock, St. Lawrence University

12:00 p.m.–5:30 p.m. H-Redwing Room
Council of Chapters Governing Board Meeting (closed)
Chair(s): Tom Capizzi, Merck Research Laboratories

12:30 p.m.–2:00 p.m. H-Director’s Row 2
Section on Bayesian Statistical Science Executive Committee Meeting (closed)
Chair(s): Malay Ghosh, University of Florida

12:30 p.m.–2:00 p.m. H-Board Room 2
Statistics in Medicine Editorial Board (closed)
Organizer(s): Ralph B. D’Agostino, Boston University

12:30 p.m.–2:00 p.m. H-Director’s Row 4
Section on Statistical Computing Executive Committee (closed)
Chair(s): Tim C. Hesterberg, Insightful Corp.

12:30 p.m.–2:30 p.m. HY-Lake Minnetonka
IMS Editors Meeting
Organizer(s): Elyse Gustafson, Institute of Mathematical Statistics

12:30 p.m.–2:30 p.m. HY-Cedar Lake
IMS AOS Editors Meeting
Organizer(s): Elyse Gustafson, Institute of Mathematical Statistics

4:00 p.m.–5:00 p.m. H-Director’s Row 3
JASA Reviews Associate Editors Meeting (closed)
Chair(s): Robert Lund, Clemson University
4:00 p.m.–6:00 p.m.        MCC-102 A
CDC/ATSDR Statisticians Open Meeting
Organizer(s): Karl Sieber, National Institute of Occupational Safety and Health

4:00 p.m.–6:00 p.m.        H-Rochester
CAUSE: Consortium for the Advancement of Undergraduate Statistics Education Meeting (closed)
Organizer(s): Dennis Pearl, The Ohio State University

4:30 p.m.–6:00 p.m.        H-Board Room 2
Section on Nonparametric Statistics Executive Committee (closed)
Organizer(s): Jeff Hart, Texas A&M University

5:00 p.m.–6:00 p.m.        MCC-102 B
Organizational Meeting for Possible Special Interest Group for Statisticians Working in the Medical Devices Area
Organizer(s): Estelle Russek-Cohen, U.S. Food and Drug Administration

5:00 p.m.–6:30 p.m.        H-Nicollet
University of Iowa Statistics, Biostatistics, and Actuarial Science Departments (open only to alumni and friends)
Organizer(s): Terry Kirk, The University of Iowa

5:00 p.m.–6:30 p.m.        H-Board Room 3
Journal of Quality Technology (closed)

5:00 p.m.–6:30 p.m.        H-Director’s Row 1
Section on Quality and Productivity Executive Committee Meeting (closed)
Chair(s): Christina Mastrangelo, University of Washington

5:00 p.m.–7:00 p.m.        H-Conrad D
Texas A&M Statistics Department Alumni Reception (closed)
Organizer(s): Michael Longnecker, Texas A&M University

5:00 p.m.–7:00 p.m.        HY-Regency
Statistical Society of Canada Reception (all are welcome)
Organizer(s): David Binder

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NISS/SAMSI Reception  
Organizer(s): Alan F. Karr, National Institute of Statistical Sciences

5:00 p.m.–7:00 p.m.  
H-Salon B

Christian Statisticians’ Informal Discussion  
Organizer(s): Robert Mee, University of Tennessee

5:30 p.m.–7:00 p.m.  
H-Conrad C

The University of North Carolina Department of Biostatistics and Statistics and Operations Research Alumni Reception (by invitation only)  
Organizer(s): Melissa Hobgood, University of North Carolina at Chapel Hill

5:30 p.m.–7:00 p.m.  
H-Marquette

Section on Statistical Consulting Business Meeting  
Chair(s): Susan Devlin, The Artemis Group

5:30 p.m.–7:00 p.m.  
MCC-102 E

ASA/NSF Federal Statistics Research Program Reception (closed)  
Chair(s): Carolyn Kesner, The ASA

5:30 p.m.–7:00 p.m.  
MCC-102 D

Biometrics Section Annual Business Meeting  
Chair(s): Marie Davidian, North Carolina State University

5:30 p.m.–7:00 p.m.  
H-LaSalle

Social Statistics Section Business Meeting/Mixer  
Chair(s): Gerald Gates, U.S. Census Bureau

5:30 p.m.–7:00 p.m.  
H-Director's Row 4

Section on Statistics and the Environment Business Meeting/Reception  
Chair(s): Jean D. Opsomer, Iowa State University

5:30 p.m.–7:00 p.m.  
H-Ramsey

Section on Health Policy Statistics Business Meeting  
Chair(s): Carolyn Rutter, Group Health Cooperative; Thomas McLaughlin, University of Massachusetts

5:30 p.m.–7:00 p.m.  
MCC-L100 A

Section on Statistics in Sports Business Meeting  
Chair(s): Scott M. Berry, Berry Consultants LLC

5:30 p.m.–7:00 p.m.  
H-Carver

The Caucus for Women in Statistics Reception  
Organizer(s): Julia Bienias, Rush University Medical Center

5:30 p.m.–7:00 p.m.  
MCC-206 A

Committee of Representatives to the AAAS  
Chair(s): Michael P. Cohen, Bureau of Transportation Statistics

5:30 p.m.–7:00 p.m.  
H-Director's Row 3

Section on Risk Analysis Business Meeting  
Chair(s): David Banks, Duke University

5:30 p.m.–7:00 p.m.  
MCC-206 B

Section on Teaching Statistics in the Health Sciences Business Meeting and Mixer  
Chair(s): Walter T. Ambrosius, Wake Forest University School of Medicine

5:30 p.m.–7:30 p.m.  
H-Director's Row 2

Section on Statistics in Epidemiology Executive Committee Meeting (closed)  
Organizer(s): Maya Sternberg, U.S. Centers for Disease Control and Prevention

6:00 p.m.–7:00 p.m.  
H-Conrad A

Student Mixer (students only, included in registration fee)  
Chair(s): Dayanand Naik, Old Dominion University

6:00 p.m.–7:30 p.m.  
H-Conrad A

Insightful Corporation Reception  
Organizer(s): Kim Kelly, Insightful Corp.

6:00 p.m.–7:30 p.m.  
HY-Mirage Room

ASA Task Force on Accreditation  
Chair(s): Mary Batcher, Ernst & Young LLP

6:00 p.m.–8:00 p.m.  
MCC-102 C

Korean Statisticians in America Meeting  
Organizer(s): Sin-Ho Jung, Duke University

6:00 p.m.–8:00 p.m.  
MCC-L100 G

Gay and Lesbian Statisticians Caucus Meeting  
Organizer(s): Ralph Bradley, Bureau of Labor Statistics

6:00 p.m.–8:00 p.m.  
MCC-L100 E

Amgen Inc. Reception (closed—by invitation only)  
Organizer(s): Pam Pearson, Amgen Inc.

6:00 p.m.–9:00 p.m.  
MCC-L100 B

President’s Invited Speaker Reception (by invitation only)  
Chair(s): Fritz J. Scheuren, The University of Chicago

6:15 p.m.–7:15 p.m.  
MCC-207 AB
GENERAL PROGRAM SCHEDULE

Monday

6:30 p.m.–7:30 p.m. H-Conrad B
ASA Membership Committee Longtime Member Reception (by invitation only)
Chair(s): Dayanand Naik, Old Dominion University

6:30 p.m.–8:30 p.m. H-Salon C
John Wiley & Sons, Inc., Reception (by invitation only)
Organizer(s): Susanne Steitz, John Wiley & Sons, Inc.

6:30 p.m.–8:30 p.m. HY-Lake Minnetonka
University of Washington Department of Biostatistics Alumni Reception
Organizer(s): Xiao-Hua (Andrew) Zhou, University of Washington

7:00 p.m.–9:00 p.m. H-Duluth
Merck Research Laboratories Reception (by invitation only)
Organizer(s): Beverly Jacobsen, Merck Research Laboratories

7:00 p.m.–10:00 p.m. H-Redwing Room
Southern Methodist University Alumni Gathering
Organizer(s): Sheila Crain, Southern Methodist University

7:30 p.m.–10:00 p.m. MCC-200 DE
Joint Statistical Computing Section and Section on Statistical Graphics Business Meeting and Mixer
Chair(s): Mario Peruggia, The Ohio State University; Tim C. Hesterberg, Insightful Corp.

9:15 p.m.–11:00 p.m. MCC-Seasons
IMS Presidential Address Reception
Organizer(s): Elyse Gustafson, Institute of Mathematical Statistics

Continuing Education (Fee Events)

CE_13C MCC-L100 G
8:00 a.m.–4:00 p.m.
Sample-size Analysis for Study Planning
The ASA, Section on Teaching Statistics in the Health Sciences
Instructor(s): Ralph O’Brien, Cleveland Clinic Foundation; John Castelloe, SAS Institute, Inc.

CE_14C MCC-L100 I
8:00 a.m.–4:00 p.m.
Analysis of Clinical Trials: Theory and Applications
The ASA, Biopharmaceutical Section
Instructor(s): Christy Chuang-Stein, Pfizer, Inc.; Alexei Dmitrienko, Eli Lilly and Company; Geert Molenberghs, Limburgs Universitair Centrum

CE_15C MCC-L100 D
8:15 a.m.–4:15 p.m.
Statistical Analysis and Data Display
The ASA, Section on Statistical Graphics
Instructor(s): Richard M. Heiberger, Temple University; Burt Holland, Temple University

CE_16C MCC-L100 A
8:15 a.m.–4:15 p.m.
Hierarchical Modeling and Analysis for Spatial Data
The ASA, Section on Bayesian Statistical Science
Instructor(s): Bradley P. Carlin, University of Minnesota; Sudipto Banerjee, University of Minnesota; Alan E. Gelfand, Duke University

CE_17C MCC-L100 C
8:15 a.m.–4:15 p.m.
Multiple Comparisons and Multiple Tests
The ASA
Instructor(s): Peter Westfall, Texas Tech University

CE_18C MCC-L100 E
8:15 a.m.–4:15 p.m.
Computational Statistics: Methods for Optimization and Monte Carlo Integration
The ASA, Section on Statistics and the Environment
Instructor(s): Jennifer A. Hoeting, Colorado State University; Geof Givens, Colorado State University

Cyber Café and Message Center Hours

Saturday, August 6–Wednesday, August 10
7:00 a.m.–11:00 p.m.

Thursday, August 11
7:00 a.m.–10:30 a.m.
CE_19C
1:00 p.m.–5:00 p.m.

**Statistical Methods for Evaluating Tests and Biomarkers in Medicine**
The ASA, Section on Statistics in Epidemiology

Instructor(s): Margaret S. Pepe, University of Washington

CE_20C
1:00 p.m.–5:00 p.m.

**Metaanalysis: Statistical Methods for Combining the Results of Independent Studies**
The ASA

Instructor(s): Ingram Olkin, Stanford University

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Invited Sessions 8:30 a.m.–10:20 a.m.

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75 MCC-211 A

★ **Practical Guidance for Collaborators and Their Clients—Invited**
Section on Statistical Consulting

Organizer(s): Harold Dyck, California State University, San Bernardino

Chair(s): Harold Dyck, California State University, San Bernardino

8:35 a.m.  Tactical Missile Inventory and Spares Procurement—
✦ Janet Myhre, Reed Institute for Decision Science


10:05 a.m. Floor Discussion

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76 MCC-201 AB

★ **Recent Advances in Multiple Testing—Invited**
Biometrics Section, Section on Nonparametric Statistics, ENAR, Business and Economics Statistics Section, WNAR, Biometrics Section

Organizer(s): Sandrine Dudoit, University of California, Berkeley

Chair(s): Sandrine Dudoit, University of California, Berkeley

8:35 a.m.  Hierarchical False Discovery Rate Controlling Procedures for the Statistical Analysis of Complex Large-scale Data—✦ Daniel Yekutieli, Tel Aviv University

9:00 a.m.  Generally Valid Resampling-based Multiple Testing Methods—✦ Katherine S. Pollard, University of California, Santa Cruz; Sandrine Dudoit, University of California, Berkeley; Mark van der Laan, University of California, Berkeley

9:25 a.m.  Multiple Testing Procedures for Control of Tail Probability of Proportion of False Positives—✦ Mark van der Laan, University of California, Berkeley; Sandrine Dudoit, University of California, Berkeley; Katherine S. Pollard, University of California, Santa Cruz; Merrill Birkner, University of California, Berkeley

9:50 a.m.  Disc: Sunduz Keles, University of Wisconsin, Madison

10:10 a.m. Floor Discussion

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78 MCC-102 F

★ **Assessment of the Uncertainties of Small-area Estimators—Invited**
Section on Survey Research Methods, Section on Government Statistics, Social Statistics Section

Organizer(s): Jane L. Meza, University of Nebraska Medical Center

Chair(s): Jane L. Meza, University of Nebraska Medical Center

8:35 a.m.  Design-consistent Domain Level Estimation in Surveys with Massive Nonresponse—✦ Daniela Cocchi, University of Bologna; Enrico Fabrizi, University of Bergamo; Carlo Trivisano, University of Bologna


9:25 a.m.  On Mean Square Prediction Error Estimation in Small-area Estimation Problems—✦ Shijie Chen, RTI International; Partha Lahiri, University of Maryland

9:50 a.m.  Disc: J. N. K. Rao, Carleton University

10:10 a.m. Floor Discussion
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:35 a.m.</td>
<td><strong>Direct and Indirect Effects—Invited</strong> Section on Statistics in Epidemiology, ENAR, WNAR, Biometrics Section</td>
<td>Marshall M. Joffe, University of Pennsylvania</td>
<td>MCC-200 G</td>
</tr>
<tr>
<td>8:35 a.m.</td>
<td>Direct and Indirect Effects— Judea Pearl, University of California, Los Angeles</td>
<td>MCC-200 G</td>
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<tr>
<td>9:00 a.m.</td>
<td>Estimation of Treatment Effects Adjusted for Post-treatment Confounding— Arvid Sjölander, Karolinska Institutet</td>
<td>Juni Palmgren, Karolinska Institutet</td>
<td>MCC-200 G</td>
</tr>
<tr>
<td>9:25 a.m.</td>
<td>Recent Advances in Separation of Direct and Indirect Effects— James M. Robins, Harvard University</td>
<td>MCC-200 G</td>
<td></td>
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<tr>
<td>9:50 a.m.</td>
<td>Disc: Donald B. Rubin, Harvard University</td>
<td>MCC-200 G</td>
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<tr>
<td>10:10 a.m.</td>
<td>Floor Discussion</td>
<td>MCC-200 G</td>
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<tr>
<td>9:35 a.m.</td>
<td><strong>50th Anniversary of Mixture Research—Invited</strong> Section on Quality and Productivity, Section on Physical and Engineering Sciences</td>
<td>Gregory F. Piepel, Battelle, Pacific Northwest Division</td>
<td>MCC-200 ABC</td>
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<tr>
<td>9:00 a.m.</td>
<td>Our 10 Most-valued Mixture Experiment Articles— John Cornell, University of Florida; G. Geoffrey Vining, Virginia Polytechnic Institute and State University</td>
<td>MCC-200 ABC</td>
<td></td>
</tr>
<tr>
<td>9:25 a.m.</td>
<td>Mixture Experiment Research at DuPont—Contributions and Learnings— Ronald D. Snee, Tunell Consulting</td>
<td>MCC-200 ABC</td>
<td></td>
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<tr>
<td>9:50 a.m.</td>
<td>Mixture-process Variable Experiments with Control and Noise Variables—Heidi Goldfarb, The Dial Corporation; Douglas Montgomery, Arizona State University</td>
<td>MCC-200 ABC</td>
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<tr>
<td>10:15 a.m.</td>
<td>Floor Discussion</td>
<td>MCC-200 ABC</td>
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<tr>
<td>8:35 a.m.</td>
<td><strong>Causal Inference with Problematic Control Groups—Invited</strong> Section on Health Policy Statistics, Business and Economics Statistics Section, WNAR</td>
<td>Sue M. Marcus, Mount Sinai School of Medicine</td>
<td>MCC-103 B</td>
</tr>
<tr>
<td>8:35 a.m.</td>
<td>Matching with Multiple Control Groups and Adjusting for Differences between the Groups— Elizabeth A. Stuart, Mathematica Policy Research, Inc.; Donald B. Rubin, Harvard University</td>
<td>MCC-103 B</td>
<td></td>
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<tr>
<td>9:00 a.m.</td>
<td>When a Placebo Group Is Unethical: a Propensity Score Approach— Sue M. Marcus, Mount Sinai School of Medicine</td>
<td>MCC-103 B</td>
<td></td>
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<tr>
<td>9:25 a.m.</td>
<td>Quantifying Placebo Effect in Discontinuation Trials— Eva Petkova, Columbia University; Thaddeus Tarpey, Wright State University</td>
<td>MCC-103 B</td>
<td></td>
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<tr>
<td>9:50 a.m.</td>
<td>Disc: Joseph L. Gastwirth, George Washington University</td>
<td>MCC-103 B</td>
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<td>10:10 a.m.</td>
<td>Floor Discussion</td>
<td>MCC-103 B</td>
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<tr>
<td>8:35 a.m.</td>
<td><strong>New Latent Space Models for Social Science—Invited</strong> IMS, Social Statistics Section</td>
<td>Beth Chance, California Polytechnic State University</td>
<td>MCC-213 AB</td>
</tr>
<tr>
<td>8:35 a.m.</td>
<td>Recovering Ideological Information from Divisions of the UK House of Commons— Kevin Quinn, Harvard University; Arthur Spirling, University of Rochester</td>
<td>MCC-213 AB</td>
<td></td>
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<tr>
<td>9:05 a.m.</td>
<td>Mobility Rules: Latent Space Models for Career Sequences— Marc A. Scott, New York University</td>
<td>MCC-213 AB</td>
<td></td>
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<tr>
<td>9:35 a.m.</td>
<td>Japanese Lesson Study: an Application to Upper-level Undergraduate Statistics— Paul J. Roback, St. Olaf College</td>
<td>MCC-213 AB</td>
<td></td>
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<tr>
<td>9:00 a.m.</td>
<td>Lesson Study as a Vehicle for Studying and Improving the Mathematical Preparation of Prospective Teachers— Dawn Berk, University of Delaware</td>
<td>MCC-213 AB</td>
<td></td>
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<tr>
<td>9:25 a.m.</td>
<td>The Impact of Japanese Lesson Study on Teachers of Statistics—Joan Garfield, University of Minnesota; Robert delMas, University of Minnesota; Beth Chance, California Polytechnic State University</td>
<td>MCC-213 AB</td>
<td></td>
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<tr>
<td>9:50 a.m.</td>
<td>Lessons on Lesson Study— Gail Burrill, Michigan State University</td>
<td>MCC-213 AB</td>
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<td>10:15 a.m.</td>
<td>Floor Discussion</td>
<td>MCC-213 AB</td>
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### MCC-200 DE

**Pharmacogenomics—Invited**  
Biopharmaceutical Section, ENAR, WNAR, Biometrics Section  
Organizer(s): Xiaohua Zhang, Merck Research Laboratories  
Chair(s): Xiaohua Zhang, Merck Research Laboratories

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:35 a.m.</td>
<td>Haplotype Mapping in Pharmacogenetics— David B. Goldstein, University College London</td>
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<tr>
<td>9:00 a.m.</td>
<td>Using Linkage To Inform Positional Cloning— Mary Sara McPeek, The University of Chicago</td>
</tr>
<tr>
<td>9:25 a.m.</td>
<td>Likelihood-based Analysis for Mixture Models with Applications to Genetic Linkage and Association Studies— Yongzhao Shao, New York University</td>
</tr>
<tr>
<td>9:50 a.m.</td>
<td>Genetic Association Studies Using False Discovery Control with P-value Weighting— Kathryn Roeder, Carnegie Mellon University</td>
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<tr>
<td>10:15 a.m.</td>
<td>Floor Discussion</td>
</tr>
</tbody>
</table>

### MCC-211 D

**Nonstationary and Nonlinear Time-series Models—Invited**  
Business and Economics Statistics Section  
Organizer(s): Sastry G. Pantula, North Carolina State University  
Chair(s): John F. Monahan, North Carolina State University

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:35 a.m.</td>
<td>Model Diagnosis for SETAR Time Series— Hira L. Koul, Michigan State University; Winfried Stute, Michigan State University; Fang Li, University of Giessen</td>
</tr>
<tr>
<td>9:00 a.m.</td>
<td>On Deformations Reducing Nonstationary Stochastic Processes to Stationarity— Marc G. Genton, Texas A&amp;M University</td>
</tr>
<tr>
<td>9:25 a.m.</td>
<td>Two Nonlinear Models for Time Series— David A. Dickey, North Carolina State University</td>
</tr>
<tr>
<td>9:50 a.m.</td>
<td>Bayesian Analysis of Threshold Autoregressive Models— Hamparsum Bozdogan, University of Tennessee; Yongjae Kwon, BBT; Halima Bensmail, University of Tennessee</td>
</tr>
<tr>
<td>10:15 a.m.</td>
<td>Floor Discussion</td>
</tr>
</tbody>
</table>

### MCC-209 AB

**Statistical Models and Methods for Microarray Data—Invited**  
IMS, Section on Nonparametric Statistics, WNAR, Section on Statistical Graphics, Biometrics Section  
Organizer(s): Cun-Hui Zhang, Rutgers, The State University of New Jersey  
Chair(s): Cun-Hui Zhang, Rutgers, The State University of New Jersey

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:35 a.m.</td>
<td>Large-p, Small-n Asymptotics for Significance Analysis in High-throughput Screening— Michael Kosorok, University of Wisconsin, Madison; Shuangge Ma, University of Washington</td>
</tr>
<tr>
<td>9:00 a.m.</td>
<td>Penalized Estimation for Sparse Gaussian Concentration Graphs with Applications to Inference of Genetic Regulatory Networks— Hongzhe Li, University of California, Davis; Jang Gui, University of California, Davis</td>
</tr>
<tr>
<td>9:25 a.m.</td>
<td>A Two-way, Semilinear Model for Normalization and Analysis of Microarray Data— Jian Huang, The University of Iowa; Cun-Hui Zhang, Rutgers, The State University of New Jersey</td>
</tr>
<tr>
<td>9:50 a.m.</td>
<td>Disc: Jianqing Fan, Princeton University</td>
</tr>
<tr>
<td>10:10 a.m.</td>
<td>Floor Discussion</td>
</tr>
</tbody>
</table>

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Looking for a good place to eat?  
Visit the Restaurant Reservations/Information Desk  
MCC-Level 1, Registration Lobby
### Invited Panels 8:30 a.m.–10:20 a.m.

#### 88 MCC-103 D

**National Security Issues in the Design and Analysis of Social Network Studies—Invited**

Section on Statisticians in Defense and National Security, Social Statistics Section

Organizer(s): Peter Hoff, University of Washington

Chair(s): Peter Hoff, University of Washington

**Panelists:**
- Steven K. Thompson, The Pennsylvania State University
- Steven Fienberg, Carnegie Mellon University
- David Banks, Duke University
- Kathleen Carley, Carnegie Mellon University

**10:15 a.m.** Floor Discussion

#### Topic Contributed Sessions 8:30 a.m.–10:20 a.m.

#### 89 MCC-202 AB

**Semiparametric Transformation Models in Survival Analysis—Topic Contributed**

Biometrics Section, WNAR

Organizer(s): Yunling (Evelyn) Du, Albert Einstein College of Medicine

Chair(s): Yunling (Evelyn) Du, Albert Einstein College of Medicine

**8:35 a.m.** The Generalized Estimating Equations for Transformation Models—◆ Kani Chen, Hong Kong University of Science and Technology

**8:55 a.m.** Combining Markers for Predicting Event Times with Nonparametric Transformation Model—◆ Tianxi Cai, Harvard University

**9:15 a.m.** Marginal Regression of Multivariate Event Based on Linear Transformation Models—◆ Wenbin Lu, North Carolina State University

**9:35 a.m.** On the Accelerated Failure Time Model for Current Status and Interval-censored Data—◆ Lu Tian, Northwestern University; Tianxi Cai, Harvard University

**9:55 a.m.** Floor Discussion

#### 90 MCC-200 J

**Statistical Issues in Contraceptive Devices—Topic Contributed**

Biopharmaceutical Section, WNAR

Organizer(s): Rosalie Dominik, Family Health International

Chair(s): Stuart A. Gansky, University of California, San Francisco

**8:35 a.m.** A Selection Model for Survival Data with Possible Nonrandom Censoring: an Illustration of Time-to-pregnancy Sensitivity Analysis—◆ Pai-Lien Chen, Family Health International; Marlina Nasution, Family Health International

**8:55 a.m.** Design and Analysis of Noninferiority Condom Failure Studies When Control Event Rates Are Expected To Approach Zero—◆ Douglas Taylor, Family Health International

**9:15 a.m.** Indirect Age Adjustment for Pregnancy Rates in Clinical Studies of Contraceptive Devices—◆ Yihua Zhao, U.S. Food and Drug Administration; Gene Pennello, U.S. Food and Drug Administration

**9:35 a.m.** Historical Control Analysis Using Propensity Scores To Test Noninferiority of a Contraceptive Device: Do Results Agree with an RCT?—◆ Rosalie Dominik, Family Health International

**9:55 a.m.** Disc: Mark Weaver, Rho, Inc.

**10:15 a.m.** Floor Discussion

#### 91 MCC-103 F

**Optimal Experimental Design—Topic Contributed**

General Methodology, Biometrics Section, Biopharmaceutical Section

Organizer(s): Weng Kee Wong, University of California, Los Angeles

Chair(s): Weng Kee Wong, University of California, Los Angeles

**8:35 a.m.** Selecting Drug Combinations: Adaptive Approach—◆ Vladimir Dragalin, GlaxoSmithKline; Valerii Fedorov, GlaxoSmithKline

**8:55 a.m.** Optimal Design of Pharmacokinetic Studies Described by Stochastic Differential Equations—◆ Sergei Leonov, GlaxoSmithKline; Valerii Fedorov, GlaxoSmithKline; Vladimir Anisimov, GlaxoSmithKline

**9:15 a.m.** Some Issues of Optimality in the Design of Interrater Agreement Studies—◆ Mekibib Altaye, Cincinnati Children’s Hospital Medical Center; Allan Donner, The University of Western Ontario

**9:35 a.m.** Optimality of Nested Designs with Equal and Unequal Cluster Sizes—◆ Martijn Berger, Maastricht University

**9:55 a.m.** Item Calibration in Computerized Adaptive Testing Using Minimal Information Loss—◆ Steven Buyske, Rutgers, The State University of New Jersey

**10:15 a.m.** Floor Discussion
92  
MCC-208 C

Recent Development in Bayesian Methods with Missing Data—Topic Contributed
Section on Bayesian Statistical Science, Section on Statistics in Epidemiology, ENAR, Biometrics Section, WNAR, Biopharmaceutical Section
Organizer(s): Ming-Hui Chen, University of Connecticut
Chair(s): Joseph Hogan, Brown University

8:35 a.m.  
Small Sample and Asymptotic Relationships between Multiple Imputation, Maximum Likelihood, and Fully Bayesian Methods for Missing Data in Linear Regression Models—  
Qingxia Chen, The University of North Carolina at Chapel Hill; Joseph G. Ibrahim, The University of North Carolina at Chapel Hill

8:55 a.m.  
Bayesian Regression Models of Nonignorable Nonresponse—  
Jai W. Choi, National Center for Health Statistics; Balgobin Nandram, Worcester Polytechnic Institute

9:15 a.m.  
Sensitivity Analysis and Informative Priors for Longitudinal Binary Data with Outcome-related Dropout—  
Joo Yeon Lee, Brown University

9:35 a.m.  
Bayesian Analysis of the Mixed Models for Repeated Binary Response and Time-dependent Missing Covariates—  
Lan Huang, National Cancer Institute; Ming-Hui Chen, University of Connecticut; Paul R. Neal, University of Connecticut; Gregory J. Anderson, University of Connecticut

9:55 a.m.  
Flexible Modeling of the Dependence Structure in Missing Data Problems—  
John Boscardin, University of California, Los Angeles; Xiao Zhang, University of California, Los Angeles

10:15 a.m.  
Floor Discussion

93  
MCC-208 D

Bayesian Spatial and Functional Modeling—Topic Contributed
Section on Bayesian Statistical Science, ENAR, WNAR, Biometrics Section
Organizer(s): Herbert Lee, University of California, Santa Cruz
Chair(s): Robert B. Gramacy, University of California, Santa Cruz

8:35 a.m.  
Bayesian Modeling of Multicategory Spatial Data—  
Catherine Calder, The Ohio State University

8:55 a.m.  
A Posteriori Analysis of Climate System Properties—  
Charles T. Curry, University of California, Santa Cruz; Bruno Sansó, University of California, Santa Cruz; Chris E. Forest, Massachusetts Institute of Technology

9:15 a.m.  
Bayesian Inference on Mixture-of-experts for Estimation of Stochastic Volatility—  
Gabriel Huerta, The University of New Mexico

9:35 a.m.  
Default Priors for Neural Networks—  
Herbert Lee, University of California, Santa Cruz

9:55 a.m.  
Mixtures of Self Modeling Bayesian Regression Splines—  
Kert Viele, University of Kentucky; Mark Lancaster, University of Kentucky

10:15 a.m.  
Floor Discussion

94  
MCC-102 B

Nonparametric Statistics in Biomedical Research—Topic Contributed
Section on Nonparametric Statistics, ENAR, Biometrics Section
Organizer(s): Cheng Cheng, St. Jude Children’s Research Hospital
Chair(s): Cheng Cheng, St. Jude Children’s Research Hospital

8:35 a.m.  
Generalized Linear Models with Images as Predictors—  
Philip Reiss, Columbia University; Todd Ogden, Columbia University

8:55 a.m.  
On Averaging Power for Genetic Association and Linkage Studies—  
Jungnam Joo, National Heart, Lung, and Blood Institute; Gang Zheng, National Heart, Lung, and Blood Institute; Sathia K. Ganesh, National Heart, Lung, and Blood Institute; Elizabeth G. Nabel, National Heart, Lung, and Blood Institute; Nancy L. Geller, National Heart, Lung, and Blood Institute

9:15 a.m.  
Sample-size Determination for the False Discovery Rate—  
Stanley Pounds, St. Jude Children’s Research Hospital; Cheng Cheng, St. Jude Children’s Research Hospital

9:35 a.m.  
Crossvalidated and Bagged Partitioning Estimators with Variable Importance—  
Annette Molinaro, NCI/Yale University

9:55 a.m.  
Floor Discussion

95  
MCC-205 A

Recent Statistical Contributions to Genetics and Epidemiology—Topic Contributed
Biometrics Section, WNAR
Organizer(s): Tian Zheng, Columbia University
Chair(s): Cavan Reilly, University of Minnesota

8:35 a.m.  
Statistical Methods for Genetic Association Studies in Isolated Populations—  
Ning Sun, Columbia University

8:55 a.m.  
Mapping Quantitative Trait Loci with Time-to-event Data from a Population of Mixed Susceptibility—  
Mengling Liu, New York University; Wenbin Lu, North Carolina State University; Yongzhao Shao, New York University
**General Program Schedule**

**MCC-102 E**

- **9:15 a.m.** Nonparametric Estimation of Genotype-specific, Age-at-onset Distributions from Censored Kin-cohort Studies—✦ Yuanjia Wang, Columbia University

- **9:35 a.m.** Final Outcome of an Endemic Infection—✦ Regina Dolgoarshinnykh, Columbia University

- **9:55 a.m.** A Nonparametric Multipoint Screening Method for QTL Mapping—✦ Tian Zheng, Columbia University; Hui Wang, Columbia University; Shaw-Hwa Lo, Columbia University

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**Hyatt Regency Minneapolis**

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**9:05 a.m.** Floor Discussion

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**96**

- **8:35 a.m.** Statistical Methods Research in the Medical Expenditure Survey—Topic Contributed Section on Survey Research Methods
  Organizer(s): Trena M. Ezzati-Rice, Agency for Healthcare Research and Quality
  Chair(s): Leyla Mohadjer, Westat

- **8:55 a.m.** Investigation of the Impact of Imputation on Variance Estimation in the Medical Expenditure Panel Survey—Robert M. Baskin, Agency for Healthcare Research and Quality; John Sommers, Agency for Healthcare Research and Quality; Marc W. Zodet, Agency for Healthcare Research and Quality; Trena M. Ezzati-Rice, Agency for Healthcare Research and Quality

- **9:15 a.m.** Full Sample Assessment of Methods for Adjusting Weights to Compensate for Dwelling Unit Nonresponse in the Medical Expenditure Panel Survey (MEPS)—Lap-Ming Wun, Agency for Healthcare Research and Quality; Trena M. Ezzati-Rice, Agency for Healthcare Research and Quality; Sourish Saha, Agency for Healthcare Research and Quality; John Fleishman, Agency for Healthcare Research and Quality

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**Model Assisted Statistics and Applications (MASA) -- An international journal**

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  Dr. Anwar Joarder (S. Arabia)

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  Applications and Simulations
  Dr. Ross Corkrey (Australia)
  Dr. Balbinder Deo (Canada)
  Dr. Munir Mahmood (Australia)
  Dr. Leonard C. Onyiah (USA)
  Dr. P. Ramalingam (USA)
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  Dr. Sylvia R. Valdes (USA)
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9:55 a.m.  Confidence Intervals for Skewed Health Care Expenditure Data from the Medical Expenditure Panel Survey (MEPS) — William Yu, Agency for Healthcare Research and Quality

10:15 a.m.  Floor Discussion

Topic Contributed Panels 8:30 a.m.–10:20 a.m.

MCC-205 D
Privacy and Data Use in the New Technological Environment—Topic Contributed
Section on Government Statistics, Social Statistics Section, Section on Statisticians in Defense and National Security
Organizer(s): Wendy Alvey, U.S. Census Bureau; Irma F. Harahush, U.S. Census Bureau
Chair(s): Charles Louis Kincannon, U.S. Census Bureau
Panelists:  
✦ Wendy Alvey, U.S. Census Bureau
✦ Vincent P. Barabba, Synthesis Alliance
✦ Rochelle Martinez, U.S. Census Bureau
✦ Gerald Gates, U.S. Census Bureau
✦ Lisa Blumerman, U.S. Census Bureau

10:15 a.m.  Floor Discussion

Regular Contributed Sessions 8:30 a.m.–10:20 a.m.

MCC-205 B
Topics in Multiple Testing—Contributed
Biometrics Section, WNAR
Chair(s): Thomas Nichols, University of Michigan

8:35 a.m.  Generalized Family-wise Error Rates for Threshold Step-down Multiple Testing Procedures — Alexander Y. Gordon, University of Rochester

8:50 a.m.  Hyperdependency in Multiple Dependent Analyses — Sarah Baraniuk, The University of Texas Health Science Center at Houston; Lemuel Moye, The University of Texas Health Science Center at Houston

9:05 a.m.  Control of Some Type I Error Rates in the Presence of General Augmentation Procedures in Multiple Testing and Some Applications — Marepalli Rao, University of Cincinnati; Wenge Guo, University of Cincinnati

9:20 a.m.  What Is Type II Error in Multiple Testing? — Mohammed Alam, University of Cincinnati; Marepalli Rao, University of Cincinnati

9:35 a.m.  Distributional Aspects of P-values and Their Use in Multiple Testing Situations — Xiaojun Hu, University of Missouri, Rolla; Gary Gadbury, University of Missouri, Rolla

9:50 a.m.  Simultaneous Confidence Bounds for Ratios of Linear Combinations of General Linear Model Parameters — David Hare, University of Louisiana, Monroe; John Spurrier, University of South Carolina

10:05 a.m.  Relating Genotype to Phenotype: Resampling-based Multiple Hypothesis Testing Using Order Statistics — Jennifer Schumi, Harvard School of Public Health; Victor DeGruttola, Harvard School of Public Health

MCC-208 B
Biomedical Nonlinear Models—Contributed
Biometrics Section, WNAR
Chair(s): Jeff Qin, Georgia State University

8:35 a.m.  Poisson-binomial Models for Aseptic Packaging of Foods — Robert J. Blodgett, U.S. Food and Drug Administration

8:50 a.m.  Modeling Predictors for Blood Transfusion in Patients with Small and Large Bowel Procedures — Yen-Hong Kuo, Jersey Shore University Medical Center; John M. Davis, Jersey Shore University Medical Center

9:05 a.m.  The Stochastic Modeling of the Sleep-wakefulness Process with the Development of a Sleep Index for Clinical Applications — Marilisa Gibellato, The Ohio State University; Haikady Nagaraja, The Ohio State University

9:20 a.m.  A Markov Model for Repeated Sexually Transmitted Infections — Wanzhu Tu, Indiana University School of Medicine

9:35 a.m.  Prediction of Survival for Patients Awaiting Liver Transplantation — Chung-Chou Chang, University of Pittsburgh; Zekarias Berhane, Drexel University; Lisa Weissfeld, University of Pittsburgh

9:50 a.m.  Spatial Statistical Analysis of Plasma Membrane Sterol Distribution — Weimin Zhang, Texas A&M University; Avery L. McIntosh, Texas A&M University; Jyh-Charn Liu, Texas A&M University; Suojin Wang, Texas A&M University

10:05 a.m.  Confidence Intervals for the Ratio of Two Proportions: a Review and Evaluation of Methods — James Lymp, Child Health Institute; Ross A. Dierkhising, Mayo Clinic
100  **MCC-200 I**  
**Analysis of Time-to-event Data—Contributed**  
Biopharmaceutical Section, WNAR  
Chair(s): Patrick Peterson, Eli Lilly and Company  
8:35 a.m. Estimating the Mixing Proportion in a Semiparametric Mixture Model from Censored Time-to-event Data—Xi Zhang, Columbia University  
8:50 a.m. Using Kaplan-Meier Method To Predict Clinical Response Rate by Baseline Drug Resistance—Jen-Fue Maa, Bristol-Myers Squibb Company; Daniel Seekins, Bristol-Myers Squibb Company  
9:05 a.m. A Censored Data Solution for Crossover Studies—David Burt, Abbott Laboratories  
9:20 a.m. Analysis of Time-to-event Data with Application to HIV Clinical Trials—Qiming Liao, GlaxoSmithKline  
9:35 a.m. On Asymptotic Normality of the Randomization-based Logrank Test—Yanqiong Zhang, Merck & Co., Inc.; William Rosenberger, University of Maryland Baltimore County  
9:50 a.m. Efficiencies and Challenges of Two-stage Randomization Designs—Jeffrey Helterbrand, Genentech, Inc.  
10:05 a.m. Hypothesis Testing for Current Leukemia-free Survival—Leiyun Lu, Medical College of Wisconsin; John P. Klein, Medical College of Wisconsin

101  **MCC-211 C**  
**Econometric Methods and Applications—Contributed**  
Business and Economics Statistics Section  
Chair(s): Jeffrey Racine, McMaster University  
8:35 a.m. Aspects of the Exact Finite Sample Distribution of the Bootstrap—Lawrence Marsh, University of Notre Dame  
8:50 a.m. Bayesian Model Averaging with Instrumental Variables: an Application to Aid and Growth—Roberto Leon Gonzalez, University of Leicester; Daniel Montolio, Universitat de Barcelona; Paul Mosley, University of Sheffield  
9:05 a.m. Robust- and Misspecification-resistant Multivariate Regression Models Hybridized with Genetic Algorithms and Information Complexity—Yan Liu, University of Tennessee; Hamparsum Bozdogan, University of Tennessee  
9:20 a.m. Numerical Approximations for Singular Stochastic Control Problems—Kevin Ross, The University of North Carolina at Chapel Hill  
9:35 a.m. Sizes of Two Bootstrap-based Nonparametric Specification Tests for the Drift Function in Continuous Time Models—Myung Suk Kim, Texas A&M University; Suojin Wang, Texas A&M University

9:50 a.m. Improved Nonparametric Inference for the Mean of a Bounded Random Variable with Application to Poverty Measures—Mame Astou Diouf, University of Montreal; Jean-Marie Dufour, University of Montreal  
10:05 a.m. Floor Discussion

102  **MCC-211 B**  
**Bayesian Modeling and Analysis of Medical and Environmental Data—Contributed**  
Section on Bayesian Statistical Science, WNAR, ENAR, Section on Statistics in Epidemiology, Biopharmaceutical Section, Section on Statistics and the Environment, Biometrics Section  
Chair(s): Seongho Song, University of Connecticut  
8:35 a.m. Bayesian Inference of Hepatoxicity—Qiang Li, The Ohio State University; Xiaotong Shen, University of Minnesota; Dennis Pearl, The Ohio State University  
8:50 a.m. Bayesian Sensitivity Analyses of Confounded Treatment Effects—Xuebei Wang, The University of Texas M. D. Anderson Cancer Center; Peter F. Thall, The University of Texas M. D. Anderson Cancer Center  
9:05 a.m. Bayesian Hierarchical Model in Estimating Ordinal Data Nested in Categorical Data—Xian Zhou, The University of Texas M. D. Anderson Cancer Center; Peter Mueller, The University of Texas M. D. Anderson Cancer Center; Benjamin Neby Bekele, The University of Texas M. D. Anderson Cancer Center  
9:20 a.m. Hierarchical Bayesian Approach to Location Estimation of Seismic Events—William G. Hanley, Lawrence Livermore National Laboratory; Gardar Johannesson, Lawrence Livermore National Laboratory; Stephen C. Myers, Lawrence Livermore National Laboratory  
9:35 a.m. A Bayesian Hierarchical Modeling Approach to Glacier Dynamics—Rajib Paul, The Ohio State University; Mark Berliner, The Ohio State University; Noel Cressie, The Ohio State University; Kenneth Jezek, The Ohio State University  
9:50 a.m. Bayesian Inference on Multiresolutional State Space Model with a Climate Data Example—Yongku Kim, The Ohio State University; Mark Berliner, The Ohio State University  
10:05 a.m. Floor Discussion

103  **MCC-210 AB**  
**New Developments in Robust Estimation—Contributed**  
IMS  
Chair(s): Xiaohong Davis, Centers for Disease Control and Prevention  
8:35 a.m. Confidence Intervals for Extreme-tail Probabilities of a Heavy-tailed Distribution—Yongcheng Qi, University of Minnesota; Xiaoyue Niu, University of Minnesota
8:50 a.m. On the Accuracy of Bootstrapping Sample Quantiles of Strongly Mixing Sequences— Shuxia Sun, Wright State University

9:05 a.m. Multivariate Spatial U-quantile Functions with Examples— Weihua Zhou, The University of Texas Southwestern Medical Center at Dallas; Robert Serfling, The University of Texas Southwestern Medical Center at Dallas

9:20 a.m. Inference for Extremal Quantile Regression Models with an Application to Birth Weights— Victor Chernozhukov, Massachusetts Institute of Technology

9:35 a.m. Multivariate L-moments— Peng Xiao, The University of Texas Southwestern Medical Center at Dallas; Robert Serfling, The University of Texas Southwestern Medical Center at Dallas

9:50 a.m. Nonparametric Depth-based Multivariate Outlier Identifiers and Robustness Properties— Xin Dang, The University of Texas Southwestern Medical Center at Dallas; Robert Serfling, The University of Texas Southwestern Medical Center at Dallas

10:05 a.m. Floor Discussion

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MCC-103 C

Questionnaire Cognitive Issues II—Contributed
Section on Survey Research Methods, Social Statistics Section
Chair(s): Rachel Caspar, RTI International

8:35 a.m. The Effect of Data Collection Software on the Cognitive Survey Response Process— Rebecca L. Morrison, U.S. Census Bureau; Amy E. Anderson, U.S. Census Bureau


9:20 a.m. A Comparison of Various Health Care Disciplines’ Satisfaction with Clinical Training— Stephen J. Dienstfrey, Schulman, Ronca & Bucuvlas, Inc.; Evert Milander, U.S. Department of Veterans Affairs

9:35 a.m. An Improved Randomized Response Model: Estimation of Mean— Christopher Gjestvang, St. Cloud State University; Sarjinder Singh, St. Cloud State University

9:50 a.m. Floor Discussion

106

MCC-205 C

Spatial Statistics and Disease Clustering—Contributed
Section on Statistics in Epidemiology, ENAR, WNAR, Biometrics Section
Chair(s): Eric Tassone, Emory University

8:35 a.m. A Multiscale Approach to Testing Areas for Elevated Disease Risk— Mary M. Louie, National Center for Health Statistics; Eric Kolaczyk, Boston University

8:50 a.m. The Use of Multivariate Control Charts To Detect Changes in the Spatial Patterns of Disease— Michael D. Joner, Virginia Polytechnic Institute and State University; William H. Woodall, Virginia Polytechnic Institute and State University; Marion R. Reynolds, Jr., Virginia Polytechnic Institute and State University

9:05 a.m. Local Likelihood Disease Clustering: Development and Evaluation— Monir Hossain, University of South Carolina; Andrew Lawson, University of South Carolina

9:20 a.m. Disease Clustering in an Analysis of Childhood Langerhans Cell Histiocytosis— Chih-Chieh Wu, The University of Texas M. D. Anderson Cancer Center
**GENERAL PROGRAM SCHEDULE**

[597x500]MINNEAPOLIS ★ 83

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<tr>
<td>9:35 a.m.</td>
<td>Detection of Spatial Clustering Using Case-control Data in the Presence of Covariates — Ronald Gangnon, University of Wisconsin, Madison</td>
</tr>
<tr>
<td>9:50 a.m.</td>
<td>Longitudinal Analysis and Modeling Approach for Mammographic Percent Density and Dense Area — Carol A. Janney, Mayo Clinic; Celine Vachon, Mayo Clinic; James Cerhan, Mayo Clinic; V. Shane Pankratz, Mayo Clinic; Zach Fredericksen, Mayo Clinic; Terry M. Themau, Mayo Clinic; Thomas A. Sellers, H. Lee Moffitt Cancer Center</td>
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<tr>
<td>10:05 a.m.</td>
<td>Floor Discussion</td>
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**107**

*Environmental Sampling, Standards, and Risk Analysis—Contributed*

Section on Statistics and the Environment, WNAR

*Chair(s): Philip Dixon, Iowa State University*

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<th>Time</th>
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<tr>
<td>8:35 a.m.</td>
<td>Using Log-ratio-log Plots To Assess the Association between Chemical Species in Environmental Samples — Michael Ginevan, Exponent, Inc.</td>
</tr>
<tr>
<td>8:50 a.m.</td>
<td>Infection Transmission Model for Risk Assessment of Waterborne Pathogens in Drinking Water — Zhen Xu J. Ma, Battelle; Pam J. Rodgers, Battelle; Mark E. Kelley, Battelle; Brenda Boutin, U.S. Environmental Protection Agency</td>
</tr>
<tr>
<td>9:05 a.m.</td>
<td>The Applications of Matrix t Distribution in Predictive Inference for a Multivariate Linear Model — B. M. Golam Kibria, Florida International University</td>
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<td>9:20 a.m.</td>
<td>A Toxicokinetic-based Survival Model for Analysis of Toxicity Data with Changing Stress — Xia Xu, Iowa State University; Philip Dixon, Iowa State University</td>
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<tr>
<td>9:35 a.m.</td>
<td>On Methods for Handling Biomarker Data below the Analytic Limit of Detection — Stephen Looney, Louisiana State University; Joseph L. Hagan, Louisiana State University</td>
</tr>
<tr>
<td>9:50 a.m.</td>
<td>A Model for Corn Pollen Dispersion — Petruta Careagea, Iowa State University</td>
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<tr>
<td>10:05 a.m.</td>
<td>Light Availability and Juvenile Tree Distributions in a Temperate Rain Forest: Why Do Different Species Coexist on the Same Resources? — Glenn Hofmann, Household International; Chris Lusk, University of Concepcion; Robin Chazdon, University of Connecticut</td>
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**108**

*Modeling for Nonstandard Systems—Contributed*

Section on Statistical Computing

*Chair(s): Li Qin, Fred Hutchinson Cancer Research Center*

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<th>Time</th>
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<tbody>
<tr>
<td>8:35 a.m.</td>
<td>Agent-based Modeling of Invasive Species — Weijie Cai, George Mason University; James Gentle, George Mason University; Jeffrey Morisette, NASA Goddard Space Flight Center</td>
</tr>
<tr>
<td>8:50 a.m.</td>
<td>Methods for Evaluating Spatial Fire Potential Indicators — Jonathan Graham, University of Montana; Patricia L. Andrews, USDA Forest Service</td>
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<tr>
<td>9:05 a.m.</td>
<td>Adaptive GSP Integration — Karuri Stella, University of Waterloo; William J. Welch, University of British Columbia</td>
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<tr>
<td>9:20 a.m.</td>
<td>Functional Data Analysis for the Growth Curve Model: a Closed-form EM Algorithm — Victor Solo, University of Michigan</td>
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<tr>
<td>9:35 a.m.</td>
<td>Floor Discussion</td>
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</tbody>
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**109**

*Degradation Modeling and Crack Propogation—Contributed*

Section on Physical and Engineering Sciences, Section on Quality and Productivity

*Chair(s): Sarah Michalak, Los Alamos National Laboratory*

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:35 a.m.</td>
<td>On Yield Modeling in the Semiconductor Industry — Kevin Anderson, Intel Corporation</td>
</tr>
<tr>
<td>8:50 a.m.</td>
<td>Time Series Modeling of Daily Accumulated Degradation Due to Outdoor Weathering — Victor Chan, Western Washington University; William Q. Meeker, Iowa State University</td>
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<tr>
<td>9:05 a.m.</td>
<td>Estimation Error Comparisons of Failure Distribution for Accelerated Degradation Tests — Shuen-Lin Jeng, Tunghai University</td>
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<td>9:20 a.m.</td>
<td>Degradation Models and Implied Lifetime Distributions — Paul Kvan, Georgia Institute of Technology; Suk Joo Bae, University of Tennessee</td>
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<tr>
<td>9:35 a.m.</td>
<td>Projecting Hazard Rates for Aging Aircraft — Peter Hovey, University of Dayton; Alan P. Berens, University of Dayton</td>
</tr>
<tr>
<td>9:50 a.m.</td>
<td>A New Compound Fading Model for Wireless Communication Systems — Kaisheng Song, Florida State University</td>
</tr>
<tr>
<td>10:05 a.m.</td>
<td>Advanced Statistical Methods for Assessment of Probability of Detection — Yurong Wang, Iowa State University; William Q. Meeker, Iowa State University</td>
</tr>
</tbody>
</table>
Special Presentation 10:30 a.m.–12:20 p.m.

110  
MCC-200 ABC  
Introductory Overview Lecture on Multivariate Probability Density Estimation  
ASA, IMS, ENAR, WNAR, SSC, Section on Statisticians in Defense and National Security, Section on Bayesian Statistical Science, Biometrics Section  
Organizer(s): Wendy Martinez, Office of Naval Research  
Chair(s): Edward J. Wegman, George Mason University  
10:35 a.m.  
Multivariate Probability Density Estimation—David Scott, Rice University  
11:25 a.m.  
Model-based Clustering Probability Density Estimation—Adrian E. Raftery, University of Washington  
12:15 p.m.  
Floor Discussion

Invited Sessions 10:30 a.m.–12:20 p.m.

111  
MCC-200 F  
JASA Theory and Methods Invited Paper Session—Invited  
JASA, Theory and Methods  
Organizer(s): Francisco J. Samaniego, University of California, Davis  
Chair(s): Francisco J. Samaniego, University of California, Davis  
10:35 a.m.  
Semilinear High-dimensional Models for Normalization of Microarray Data: Theoretical Analysis and Partial Consistency—Jianqing Fan, Princeton University; Heng Peng, Princeton University; Tao Huang, Yale University  
11:20 a.m.  
Disc: Michael Kosorok, University of Wisconsin, Madison  
11:35 a.m.  
Disc: Heping Zhang, Yale University  
12:05 p.m.  
Floor Discussion

112  
MCC-211 D  
Statistical Learning and Data Mining—Invited  
Section on Nonparametric Statistics, Business and Economics Statistics Section  
Organizer(s): Yi Lin, University of Wisconsin, Madison  
Chair(s): Yi Lin, University of Wisconsin, Madison  
10:35 a.m.  
Model Assessment—Xiaotong Shen, University of Minnesota; Hsin-Cheng Huang, Institute of Statistical Science, Academia Sinica  
11:05 a.m.  
Nonlinear Dimension Reduction—Andreas Buja, University of Pennsylvania

113  
MCC-211 C  
Sequential Monte Carlo—Invited  
Section on Statistical Computing, Section on Bayesian Statistical Science  
Organizer(s): Susan Holmes, Stanford University  
Chair(s): Samuel Kou, Harvard University  
10:35 a.m.  
Sequential Monte Carlo: Past and Present—Jun S. Liu, Harvard University  
11:45 a.m.  
Disc: Arnaud Doucet, Cambridge University  
12:05 p.m.  
Floor Discussion

114  
MCC-205 C  
Aggregation in Nonparametric Models—Invited  
IMS, Section on Bayesian Statistical Science, Section on Nonparametric Statistics  
Organizer(s): Florentina Bunea, Florida State University  
Chair(s): Florentina Bunea, Florida State University  
10:35 a.m.  
Boosting, Lasso, and Model Selection—Bin Yu, University of California, Berkeley  
11:00 a.m.  
Model List Selection for Prediction—Bertrand Clarke, University of British Columbia  
11:25 a.m.  
Aggregation for Regression Learning—Marten H. Wegkamp, Florida State University; Florentina Bunea, Florida State University; Alexandre B. Tsybakov, University Paris VI  
11:50 a.m.  
Some Bayesian Perspectives on Combining Models—Merlise Clyde, Duke University; Edwin Iversen, Duke University; Jennifer Pittman, Duke University; Rosy Luo, Duke University  
12:15 p.m.  
Floor Discussion

115  
MCC-200 DE  
Improving Quality and Access to Federal Data—Memorial Session in Honor of Pat J. Doyle—Invited  
Memorial, Section on Government Statistics, Social Statistics Section  
Organizer(s): Wendy Alvey, U.S. Census Bureau; John Czajka, Mathematica Policy Research, Inc.; Nancy A. Bates, U.S. Census Bureau  
Chair(s): Constance Citro, National Academy of Sciences  
10:35 a.m.  
Improving Our Ability To Estimate the Impact of Changes to the Transfer System and Measure Economic Well-being: the Legacy of Pat Doyle’s Early Work—
11:00 a.m. Striving for Data Quality: Pat Doyle’s Legacy at the U.S. Census Bureau—✦ Jeffrey Moore, U.S. Census Bureau; Chester Bowie, Government Foundation & Academic Research Market Strategies, Inc.

11:25 a.m. Potential Solutions to Meeting Data User Needs—✦ Julia Lane, National Science Foundation

11:50 a.m. Disc: Stephanie Shipp, National Institute of Standards and Technology

12:10 p.m. Floor Discussion

103 a.m. Posterior Inference on the Stem Cell Population of the Human Colon through Analysis of Methylation Patterns—✦ Simon Tavare, University of Southern California; P. Nicolas, University of Southern California; D. Shibata, University of Southern California

11:05 a.m. Boltzman Weighted Ensembles of RNA Secondary Structures—✦ Charles Lawrence, Brown University

11:35 a.m. Bayesian Haplotype Inference via the Dirichlet Process—✦ Eric P. Xing, Carnegie Mellon University; Roded Sharan, ICSI, Berkeley

12:10 p.m. Floor Discussion
General Program Schedule

121  
MCC-200 H

Communicating Information to Students and Teachers—Invited
Social Statistics Section
Organizer(s): Robert H. Rutchik, U.S. Department of Energy
Chair(s): John Bosley, Bureau of Labor Statistics

10:35 a.m. Evolution of the EIA Energy Kid’s Page—† Robert H. Rutchik, U.S. Department of Energy; Howard Bradsher-Fredrick, Energy Information Administration; Colleen Blessing, Energy Information Administration; Herbert Miller, Energy Information Administration; Renee Miller, Energy Information Administration

11:00 a.m. Hennepin County Library: Online Services to Youth—† Marilyn Turner, Hennepin County Library; Margaret Canada, Hennepin County Library; Ann Melrose, Hennepin County Library

11:25 a.m. The American Statistical Association Guidelines for Instruction in Statistics Education (GAISE) for Pre K-12: What Does This Mean for Students and Teachers?—† Christine A. Franklin, University of Georgia

11:50 a.m. Disc: Richard Omanson, User Centric, Inc.

12:15 p.m. Floor Discussion

122  
MCC-103 D

Statistics and the College Football Championship—Invited
The American Statistician, Section on Statistics in Sports, Section on Statistical Education
Organizer(s): James Albert, Bowling Green State University
Chair(s): James Albert, Bowling Green State University

Panelists: † Hal Stern, University of California, Irvine
† David Harville, IBM Thomas J. Watson Research Center
† David Mease, University of California, Berkeley
† Kenneth Massey, Virginia Polytechnic Institute and State University

12:15 p.m. Floor Discussion

123  
MCC-200 I

Section on Health Policy Statistics Student Awards Session—Topic Contributed
Section on Health Policy Statistics, Section on Bayesian Statistical Science, WNAR
Organizer(s): Chris Schmid, Tufts New England Medical Center
Chair(s): Therese Stukel, Institute for Clinical Evaluative Sciences

10:35 a.m. A Hierarchical, Multivariate, Two-part Model for Profiling Providers’ Effects on Health Care Charges—† John Robinson, Johns Hopkins University; Scott Zeger, Johns Hopkins University; Christopher Forrest, Johns Hopkins University


11:15 a.m. A Comparison of Estimators of Population Slope under Informative Dropout—† Hai (Kevin) Lin, The University of Texas M. D. Anderson Cancer Center; Elizabeth Slate, Medical University of South Carolina

11:35 a.m. On the Utility of Stochastic Models of Chronic Obstructive Pulmonary Disease—† Rebecca Boehm, Medical University of South Carolina; Kristin Highland, Medical University of South Carolina; Kit Simpson, Medical University of South Carolina; Robert Woolson, Medical University of South Carolina

Marketplace

Mugs, hats, ASA apparel, children’s shirts, JSM shirts, and more!

Located in the main registration area of the Minneapolis Convention Center

See page 21 for hours of operation
### 11:55 a.m.  Nonparametric Approaches to Response Surface Methodology
- **Thrunpickle, Virginia Polytechnic Institute and State University; Jeffrey B. Birch, Virginia Polytechnic Institute and State University; Timothy J. Robinson, University of Wyoming**

### 11:55 a.m.  Disc: G. Geoffrey Vining, Virginia Polytechnic Institute and State University

### 12:15 p.m.  Floor Discussion

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### 10:35 a.m.  Responder Analysis: You Can Have It Both Ways
- **Thomas Permutt, U.S. Food and Drug Administration; Joan Buenconsejo, U.S. Food and Drug Administration**

### 10:55 a.m.  Odds Ratios for a Continuous Outcome Variable Without Dichotomizing
- **Barry K. Moser, Duke University; Laura Coombs, George Washington University**

### 11:15 a.m.  ‘Responder Analysis’ of Clinical-relevant Evidence of Trials
- **Yi Tsong, U.S. Food and Drug Administration**

### 11:35 a.m.  Assessing Treatment Differences Using a Weighted Responder Analysis
- **Ling Chen, U.S. Food and Drug Administration; Qian H. Li, U.S. Food and Drug Administration**

### 11:55 a.m.  Disc: Ralph D’Agostino, Boston University

### 12:15 p.m.  Floor Discussion

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### 10:35 a.m.  The Air Travel Price Index: Take-off and Flight Path
- **Steven Anderson, U.S. Department of Transportation; Janice Lent, U.S. Department of Transportation**

### 10:55 a.m.  Comparing Weighting Methods in the International Price Program

### 11:15 a.m.  The Effect of Attrition on Variance and Index Estimates in the Housing Component of the Consumer Price Index
- **William Larson, Bureau of Labor Statistics**

- **Owen Shoemaker, Bureau of Labor Statistics**

### 11:55 a.m.  Disc: Marshall Reinsdorf, Bureau of Economic Analysis

### 12:15 p.m.  Floor Discussion

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### 10:35 a.m.  Nonparametric Tests for Perfect Judgment Rankings
- **Omer Ozturk, The Ohio State University; Jesse Frey, The Ohio State University; Jayant V. Deshpande, University of Pune**

### 10:55 a.m.  Some Applications of Ranked Set Sampling
- **Barry D. Nussbaum, U.S. Environmental Protection Agency; Bimal K. Sinha, University of Maryland Baltimore County**

### 11:15 a.m.  Judgment Poststratification for Designed Experiments
- **Juan D, The Ohio State University; Steven N. MacEachern, The Ohio State University**

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### GENERAL PROGRAM SCHEDULE

- **MCC-020 G**
  - New Developments in Response Surface Methodology—Topic Contributed
  - Section on Quality and Productivity, Section on Physical and Engineering Sciences
  - Organizer(s): G. Geoffrey Vining, Virginia Polytechnic Institute and State University
  - Chair(s): Christine Anderson-Cook, Los Alamos National Laboratory
  - **10:35 a.m.**  Exact Inference for Response Surface Designs within a Split-plot Structure
    - Scott Kowalski, Minitab Inc.; G. Geoffrey Vining, Virginia Polytechnic Institute and State University
  - **10:55 a.m.**  Partially Rotatable Split-plot Response Surface Design
    - Li Wang, Virginia Polytechnic Institute and State University; G. Geoffrey Vining, Virginia Polytechnic Institute and State University
  - **11:15 a.m.**  Residual Estimation for the Analysis of Dispersion Effects in Unreplicated, Two-level, Fractional Factorial Split-plot Designs
    - Andre L. Pinho, Universidade Federal do Rio Grande do Norte; Carla A. Vivacqua, Universidade Federal do Rio Grande do Norte; Soren Bisgaard, University of Massachusetts; Harold J. Steudel, University of Wisconsin, Madison
    - Owen Shoemaker, Bureau of Labor Statistics
  - **11:55 a.m.**  Disc: Marshall Reinsdorf, Bureau of Economic Analysis
  - **12:15 p.m.**  Floor Discussion

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### Themed Session
- **MCC-010 B**
  - Analysis of Responder Data—Topic Contributed
  - Biopharmaceutical Section, WNAR
  - Organizer(s): Yi Tsong, U.S. Food and Drug Administration
  - Chair(s): Thomas Kelleher, Bristol-Myers Squibb Company
  - **10:35 a.m.**  Responder Analysis: You Can Have It Both Ways
    - Thomas Permutt, U.S. Food and Drug Administration; Joan Buenconsejo, U.S. Food and Drug Administration
  - **10:55 a.m.**  Odds Ratios for a Continuous Outcome Variable Without Dichotomizing
    - Barry K. Moser, Duke University; Laura Coombs, George Washington University
  - **11:15 a.m.**  ‘Responder Analysis’ of Clinical-relevant Evidence of Trials
    - Yi Tsong, U.S. Food and Drug Administration
  - **11:35 a.m.**  Assessing Treatment Differences Using a Weighted Responder Analysis
    - Ling Chen, U.S. Food and Drug Administration; Qian H. Li, U.S. Food and Drug Administration
  - **11:55 a.m.**  Disc: Ralph D’Agostino, Boston University
  - **12:15 p.m.**  Floor Discussion

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### Applied Session
- **MCC-012 B**
  - Enhancements in Price Programs and Other Statistical Issues—Topic Contributed
  - Section on Government Statistics
  - Organizer(s): Moon J. Cho, Bureau of Labor Statistics
  - Chair(s): Sylvia G. Leaver, Bureau of Labor Statistics
  - **10:35 a.m.**  The Air Travel Price Index: Take-off and Flight Path
    - Steven Anderson, U.S. Department of Transportation; Janice Lent, U.S. Department of Transportation
  - **10:55 a.m.**  Comparing Weighting Methods in the International Price Program
  - **11:15 a.m.**  The Effect of Attrition on Variance and Index Estimates in the Housing Component of the Consumer Price Index
    - Owen Shoemaker, Bureau of Labor Statistics
  - **11:55 a.m.**  Disc: Marshall Reinsdorf, Bureau of Economic Analysis
  - **12:15 p.m.**  Floor Discussion

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### Presenter
- **MCC-013 B**
  - Some Applications of Ranked Set Sampling—Topic Contributed
  - Section on Nonparametric Statistics, Section on Survey Research Methods
  - Organizer(s): Omer Ozturk, The Ohio State University
  - Chair(s): Edsel Pena, University of South Carolina
  - **10:35 a.m.**  Nonparametric Tests for Perfect Judgment Rankings
    - Omer Ozturk, The Ohio State University; Jesse Frey, The Ohio State University; Jayant V. Deshpande, University of Pune
  - **10:55 a.m.**  Some Applications of Ranked Set Sampling
    - Barry D. Nussbaum, U.S. Environmental Protection Agency; Bimal K. Sinha, University of Maryland Baltimore County
  - **11:15 a.m.**  Judgment Poststratification for Designed Experiments
    - Juan D, The Ohio State University; Steven N. MacEachern, The Ohio State University
11:35 a.m.  Confidence Intervals for Quantiles and Tolerance Intervals Based on Ordered Ranked Set Samples—
✦ Tao Li, McMaster University; Narayanaswamy Balakrishnan, McMaster University

11:55 a.m.  Minimum Disparity Estimation in Ranked Set Sampling—
✦ Roxana Alexandridis, The Ohio State University; Omer Ozturk, The Ohio State University

12:15 p.m.  Floor Discussion

10:35 a.m.  Accelerated Destructive Degradation Test Planning—
✦ Luis Escobar, Louisiana State University; William Q. Meeker, Iowa State University

10:55 a.m.  The Use of Accelerated Testing To Develop a Cumulative Damage Model To Predict Service Life of Materials Subjected to Outdoor Weathering—
✦ William Q. Meeker, Iowa State University

11:15 a.m.  Engineering Physics-based Degradation Models—
✦ J. C. Lu, Georgia Institute of Technology; Shuen-Lin Jeng, Tunghai University; P. Papush, Georgia Institute of Technology

11:35 a.m.  A Class of Degradation Models for Reliability Inference Based on Nonhomogeneous Gaussian Processes—
✦ Xiao Wang, University of Michigan; Vijayan Nair, University of Michigan

11:55 a.m.  Toward Unit-specific Degradation Modeling—
✦ Brock Osborn, GE Global Research; Hui Fan, Rensselaer Polytechnic Institute; Thomas Willemin, Rensselaer Polytechnic Institute; Pasquale Sullo, Rensselaer Polytechnic Institute

12:15 p.m.  Floor Discussion

10:35 a.m.  A Bayesian Reliability Approach to Multiple Response Surface Optimization—
✦ John Peterson, GlaxoSmithKline; Guillermo Miro-Quesada, Eli Lilly and Company; Enrique del Castillo, The Pennsylvania State University

10:55 a.m.  The Application of Bayesian Hierarchical Models in Dual Response Surface—
✦ Younan Chen, Virginia Polytechnic Institute and State University; Keying Ye, Virginia Polytechnic Institute and State University

11:15 a.m.  Bayesian Separation of Harmonic Sources—
✦ Manuel Davy, LAGIS/CNRS

11:35 a.m.  Bayesian 3-D Reconstruction of Chemical Composition from 2-D Spectra—
✦ Juan Soto, National Institute of Standards and Technology; Donald Malec, U.S. Census Bureau/National Institute of Standards and Technology

11:55 a.m.  A Bayesian Approach to Imputation of Missing Data Values in Audio Time Series—
✦ Patrick J. Wolfe, Harvard University

12:15 p.m.  Floor Discussion
131  
**MCC-102 D**

* Modeling for Brain Imaging Data—Topic Contributed
  Biometrics Section, WNAR

Organizer(s): Todd Ogden, Columbia University  
Chair(s): Todd Ogden, Columbia University

10:35 a.m.  
Modeling Spatial Correlations in Functional Neuroimaging Data—
  F. DuBois Bowman, Emory University

10:55 a.m.  
P-value Adaptive Thresholding Procedure—
  Martina Pavlicova, Columbia University

11:15 a.m.  
Far Casting Crossvalidation in Correlated Data Model Selection—
  Patrick Carmack, The University of Texas Southwestern Medical Center at Dallas; William R. Schucany, Southern Methodist University; Richard Gunst, Southern Methodist University; Jeffrey Spence, The University of Texas Southwestern Medical Center at Dallas; Qihua Lin, Southern Methodist University

11:35 a.m.  
Mixture Modeling for PET Neuroreceptor Studies—
  Huiping Jiang, Columbia University; Todd Ogden, Columbia University

11:55 a.m.  
Model Selection for Functional Magnetic Resonance Imaging—
  Nicole Lazar, University of Georgia

12:15 p.m.  
Floor Discussion

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132  
**MCC-201 AB**

* Issues in Quantifying Measurement Error—Topic Contributed
  Section on Survey Research Methods

Organizer(s): Barry Johnson, U.S. Internal Revenue Service  
Chair(s): Mary Batcher, Ernst & Young LLP

10:35 a.m.  
Measuring Nonsampling Error in the SOI Individual Tax Return Study—

10:55 a.m.  
A Model Prediction Approach to Measuring Nonsampling Error—
  Kimberly Henry, U.S. Internal Revenue Service; Yahia Ahmed, U.S. Internal Revenue Service

11:15 a.m.  
Corporation Super Critical Cases: How Do Imputed Returns on the Corporate File Compare to the Actual Returns?—
  Lucy Allounian, U.S. Internal Revenue Service

11:35 a.m.  
The Impact of the Follow-up Process on the Tax Year 2002 Foreign Tax Credit Data—
  Melissa A. Redmiles, U.S. Internal Revenue Service; Harry Singmaster, U.S. Internal Revenue Service

11:55 a.m.  
Disc: Steve Miller, Bureau of Labor Statistics

12:15 p.m.  
Floor Discussion

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133  
**MCC-205 D**

Examining the Introductory Statistics Course for Business and Economics through It’s Textbooks—Topic Contributed
  Section on Statistical Education

Organizer(s): John McKenzie, Jr., Babson College  
Chair(s): Paul Velleman, Cornell University

Panelists:  
  John McKenzie, Jr., Babson College  
  Jay Devore, California Polytechnic University  
  Keith Ord, Georgetown University  
  Edward Mansfield, The University of Alabama

12:15 p.m.  
Floor Discussion

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134  
**MCC-102 E**

Nucleotides, Genes, and Chromosomes—Contributed Biometrics Section, WNAR

Organizer(s): Swati Biswas, The University of Texas M. D. Anderson Cancer Center  
Chair(s): Swati Biswas, The University of Texas M. D. Anderson Cancer Center

10:35 a.m.  
A Statistical Method for Chromatographic Alignment of LC-MS Data—
  Pei Wang, Fred Hutchinson Cancer Research Center; Marc Coram, The University of Chicago; Hua Tang, Fred Hutchinson Cancer Research Center

10:50 a.m.  
Simultaneous Calibration and Peak-picking Algorithm for LC-ESI-FT-ICR Mass Spectrometry Data—
  Jeanette Eckel-Passow, Mayo Clinic; Terry M. Therneau, Mayo Clinic; Ann Oberg, Mayo Clinic; David Muddiman, Mayo Clinic; Christopher Mason, Mayo Clinic

11:05 a.m.  
Statistical Approaches To Estimate Biologic Variation of Protein Expression in Human Serum Using Two-dimensional Gel Electrophoresis—
  Jodi Lapidus, Oregon Health & Science University; Xinfang Lu, Oregon Health & Science University; Thomas Jacob, Oregon Health & Science University; Srinivasa Nagalla, Oregon Health & Science University

11:20 a.m.  
Space-dependence of Substitution Rates: an Application of GEE and Composite Likelihood Methods—
  Ling Deng, Temple University/Novo Nordisk; Dirk F. Moore, University of Medicine and Dentistry of New Jersey

11:35 a.m.  
How Many Species and How Many Rare Species?—
  Hongmei Zhang, University of West Florida
11:50 a.m. Statistical Methods for the Identification of Microdeletions of Chromosome Segments—✦ Yan Li, The University of Chicago
12:05 p.m. Floor Discussion

135  ☀ ☀ McC-208 A
Statistical Theory with Applications from Astronomy to Microarrays—Contributed
IMS
Chair(s): Sudeshna Adak, GE Global Research

10:35 a.m. A Union-intersection Censored Data Test for the Equality of Exponential Distribution Location Parameters—✦ Jeffrey Green, Ball State University; Roger Nelson, Ball State University
10:50 a.m. A Characterization of Multivariate Normal Distribution with Special Covariance Structure—✦ Dhanuja Kasturaranta, Bowling Green State University; Truc T. Nguyen, Bowling Green State University; Arjun K. Gupta, Bowling Green State University
11:05 a.m. Sequential Plans and Risk Evaluation—✦ Claudia Schmegner, DePaul University; Michael Baron, The University of Texas Southwestern Medical Center at Dallas
11:20 a.m. Higher Criticism Statistic: Theory and Applications in Cosmology and Astronomy—✦ Jiashun Jin, Purdue University
11:35 a.m. Sharp Simultaneous Intervals for the Means of Selected Populations with Application to Microarray Data Analysis—✦ Jing Qiu, University of Missouri, Columbia
11:50 a.m. Data Integration Method for High-throughput Data—✦ Joseph Beyene, University of Toronto; Pingzhao Hu, University of Toronto, Hospital for Sick Children; Celia C. M. Greenwood, University of Toronto, Hospital for Sick Children
12:05 p.m. Model Selection Using the Discrimination Sample Size—✦ Jiawei Liu, Georgia State University; Bruce G. Lindsay, The Pennsylvania State University

136  ☀ ☀ ☀ McC-211 B
Bayesian Methods in Biological and Ecological Studies—Contributed
Section on Bayesian Statistical Science, ENAR, Section on Statistical Education, Biometrics Section
Chair(s): Cyr Emile M’Lan, University of Connecticut

10:35 a.m. Global Bayesian Approach to Identifying Biomarkers from MALDI-MS Data—✦ Junfeng Liu, Yale University
10:50 a.m. Bayesian Analysis of High-throughput Data with Ordinal Outcomes To Identify Prostate Cancer Biomarkers—✦ Deukwoo Kwon, Texas A&M University; Mahlet G. Tadesse, University of Pennsylvania; Naijun Sha, The University of Texas at El Paso; Marina Vannucci, Texas A&M University
11:05 a.m. Mixture Models, SEMOR, and BARS—✦ Mark Lancaster, University of Kentucky; Kert Viele, University of Kentucky
11:20 a.m. Bayesian Models and Model Selection in Closed-population, Capture-recapture Experiments—✦ Ross Gosky, Bucknell University; Sujit K. Ghosh, North Carolina State University
11:35 a.m. Assessing the Stability of Likelihood-based Models Incorporating Dynamic Biological Components—✦ Michael Brimacombe, New Jersey Medical School
11:50 a.m. Contextual Effects in Ecological Inference—✦ Ying Lu, Princeton University; Kosuke Imai, Princeton University

137  ☀ ☀ ☀ ☀ ☀ McC-213 AB
Bootstrapping and Simulation—Contributed
Section on Nonparametric Statistics
Chair(s): Ping Ma, Harvard University

10:35 a.m. Estimation of Employee Turnover Based on Tenure-to-date—✦ Richard Madsen, University of Missouri, Columbia
10:50 a.m. Bootstrapping for Dimension Assessment in Regression—✦ Santiago Velilla, Universidad Carlos III de Madrid
11:05 a.m. Bootstrap Confidence Bands for Infinite Order Nonparametric Regression Estimates—✦ Timothy McMurry, DePaul University; Dimitris Politis, University of California, San Diego
11:20 a.m. Empirical Process Approach to Some Two-sample Problems Using Ranked Set Samples—✦ Kaushik Ghosh, George Washington University; Ram C. Tiwari, National Cancer Institute
11:35 a.m. Permutation Methods for Comparing Process Capabilities—✦ Alan Polansky, Northern Illinois University
11:50 a.m. Multi-step Forecasting with Functional Coefficient—✦ Jane Harvill, Mississippi State University
12:05 p.m. Transforming Skewed Data and the Bootstrap—✦ Abu Minhajuddin, The University of Texas Southwestern Medical Center at Dallas; Nasratus Nayeem, Southern Methodist University; William R. Schucany, Southern Methodist University
138

*QT and Randomization Issues—Contributed*

Biopharmaceutical Section, WNAR

Chair(s): Thomas Liu, Amgen Global Biostatistics

10:35 a.m. Statistical Properties of Maximal Mean Change in Evaluating QT Prolongation—Genming Shi, Schering-Plough; Bo Yang, Schering-Plough; Ferdous Gheyas, Schering-Plough; Ramachandran Suresh, Schering-Plough

10:50 a.m. Dynamic Modeling of Beat-to-beat QT-RR Data Using the Bootstrap—Kimberly Crimin, Pfizer, Inc.

11:05 a.m. How Does Stratified Randomization Affect the Balance of a Clinical Trial?—Xiaohui Luo, Merck & Co., Inc.; Matilde Sanchez, Merck & Co., Inc.

11:20 a.m. Effects from Treatment Confounding Factors in Randomized Controlled Clinical Trials—Boll Wu, Sanofi-Aventis; Ray Zhu, Sanofi-Aventis

11:35 a.m. A Note on Postrandomization Covariates Adjustment—Minzhi Liu, Merck & Co., Inc.

11:55 a.m. Estimating the Response Rate When Measurements Are Subject to Error—Yangming Qu, Eli Lilly and Company; Pandurang M. Kulkarni, Eli Lilly and Company

12:05 p.m. Impact of QT Correction Methods on the Assessment of QT Prolongation Potential of Drugs—Navdeep Boparai, Schering-Plough; Genming Shi, Schering-Plough; Ferdous Gheyas, Schering-Plough

139

Applications in Business and Economics I—Contributed

Business and Economics Statistics Section

Chair(s): Wani Min, IBM

10:35 a.m. Class of Counting Distribution and the Number of Claims Distribution—Min Deng, Maryville University, St. Louis

10:50 a.m. Predictive Modeling in Property and Casualty Insurance: Case Study for Identifying the Worst Insurance Risks among Small Businesses—Vladimir Ladzherits, Babson Capital Management LLC; Martin Couture, St. Paul Travelers Insurance Company

11:05 a.m. A Dynamic Hazard Model and Model Change Detection System for Predicting Corporate Distress—Shu-Hui Yu, National Chi Nan University

11:20 a.m. Competitiveness of Different Groups of Italian Enterprises Detected Using Robust Classification Methods—Matilde Bini, Università degli Studi di Firenze; Bruno Bertaccini, Università degli Studi di Firenze

11:35 a.m. Building Uncorrelated Models for Consumer Lending: a Practitioner’s Review of Applications—Alex Strounine

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*Issues in Study Design—Contributed*

General Methodology, Biopharmaceutical Section, Section on Bayesian Statistical Science

Chair(s): Luen Lee, Novartis Pharmaceuticals

10:35 a.m. Locally D-optimal Designs for Logistic Models with Three and Four Parameters—Gang Li, GlaxoSmithKline; Dibyen Majumdar, University of Illinois, Chicago

10:50 a.m. Optimal Incomplete Designs with Three Blocks—Bo Jin, Merck Research Laboratories

11:05 a.m. Optimal Two-stage Designs in Phase II Trials—Anindita Banerjee, North Carolina State University; Anastasios A. Tsiatis, North Carolina State University

11:20 a.m. Suggested Sample-size-to-variable Ratios for Discriminant Analysis—Mercedes Schneider, Ball State University; Holmes Finch, Ball State University

11:35 a.m. Bayesian Construction of Improved Nonrandomized Tests for One-sided Hypotheses about Discrete Distributions—Stefan Wellek, CIMH/University of Heidelberg

11:50 a.m. Power Analysis for Correlations from Clustered Study Designs—Xin Tu, University of Rochester

12:05 p.m. Sample Sizes When Using Multiple Linear Regression for Prediction—Gregory Knofczynski, Armstrong Atlantic State University

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Time Series—Contributed

General Methodology

Chair(s): Sujata Patil, The Children’s Hospital of Philadelphia

10:35 a.m. A Note on Nonnegative Continuous-time Processes—Hunghsiu Tsai, Institute of Statistical Science, Academia Sinica; Kung-Sik Chan, The University of Iowa

10:50 a.m. Detrending Categorical Time Series—Monnie McGee, Southern Methodist University; Ian Harris, Southern Methodist University

11:05 a.m. On the Unique Representation of Non-Gaussian Multivariate Linear Processes—Lop-hing Ho, Wichita State University; Kung-Sik Chan, The University of Iowa
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Probability
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A. Gut
2005. 620 p. Hardcover
ISBN 0-387-22833-0 ► $79.95
11:20 a.m. Shapes of Stationary Autocovariances—✦ Ying Zhao, University of Georgia; Robert Lund, Clemson University
11:35 a.m. Moment Convergence of Nonlinear Least Squares Estimates with Applications to Time-series Forecasting—✦ Ching-Kang Ing, Institute of Statistical Science, Academia Sinica
11:50 a.m. Observation-driven Models for Time Series Regression with Serial Dependence—✦ William Dunsmaur, University of New South Wales
12:05 p.m. Nonlinear Renewal Theory with Stationary and Slowly Changing Perturbations—✦ Dong-Yun Kim, Illinois State University

142 MCC-103 F
Design of Experiments II—Contributed
Section on Physical and Engineering Sciences, Section on Quality and Productivity
Chair(s): Robert Easterling, Itinerant Professor
10:35 a.m. Building Equivalent Estimation Split-plot Designs for Response Surface Investigations—✦ Peter Parker, NASA; Scott Kowalski, Minitab Inc.; G. Geoffrey Vining, Virginia Polytechnic Institute and State University
10:50 a.m. Multivariate Analysis of a Computer Experiment for Data Center Thermal Distribution—✦ Yasuo Amemiya, IBM
11:05 a.m. Statistical Models for Computer Experiment Output Having Qualitative Input Variables—✦ Gang Han, The Ohio State University; Thomas J. Santner, The Ohio State University; William I. Notz, The Ohio State University
11:20 a.m. A New Approach for Predicting the Mean Response in Computer Experiments with Control and Noise Variables—✦ Ofelia Marin, The Ohio State University; William I. Notz, The Ohio State University
11:35 a.m. Estimation of Transmitted Errors in Computer Experiments—✦ Richard McGrath, Bowling Green State University; Arthur B. Yeh, Bowling Green State University; Yu Zheng, University of Florida
11:50 a.m. Floor Discussion

143 MCC-210 AB
Algorithms and Software—Contributed
Section on Statistical Computing
Chair(s): Murali Haran, The Pennsylvania State University
10:35 a.m. An Optimization Approach for the Parameter Estimation of the Nonlinear Mixed-effects Models—✦ Jing Wang, Louisiana State University
10:50 a.m. Multiplicative Interaction Models in R—✦ Heather Turner, The University of Warwick; David Firth, The University of Warwick
11:05 a.m. Fitting Generalized Linear Mixed Effects Models to Very Large Telecommunications Datasets—✦ Ka Wong, University of California, Los Angeles; Fei Chen, Fair Isaac Corporation; Mark H. Hansen, University of California, Los Angeles
11:15 a.m. Estimating Correlation Coefficient between Two Variables with Repeated Observations Using Mixed Effects Model—✦ Anuradha Roy, The University of Texas at San Antonio
11:35 a.m. A Comparison of Computer Software Programs for Calculating the ICC—✦ Sandra Hall, University of Kansas Medical Center; Qingjiang Hou, University of Kansas Medical Center; Matthew S. Mayo, University of Kansas Medical Center
11:50 a.m. Query System with the Integration of Statistics, Programming, Confidentiality, and Teamwork—✦ Rong Huang, University of California, Los Angeles; Hongjian Yu, University of California, Los Angeles; Jeff Luck, University of California, Los Angeles
12:05 p.m. Floor Discussion
11:50 a.m. Modeling Lung Cancer Risk in Case-control Studies Using a New Dose Metric of Smoking—✦ Sally W. Thurston, University of Rochester; Geoffrey Liu, Harvard School of Public Health; David P. Miller, Harvard School of Public Health; David C. Christiani, Harvard School of Public Health

12:05 p.m. Score Test for Association between Longitudinal Genearray and Ordinal Event Data—✦ Natasa Rajicic, Harvard School of Public Health; Dianne Finkelstein, MGH Biostatistics; David Schoenfeld, MGH Biostatistics

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✦ Estimation with Survey Data—Contributed
Section on Survey Research Methods, Social Statistics Section
Chair(s): Jong-Min Kim, University of Minnesota

10:35 a.m. Showcasing Undergraduate Students’ Projects Based on Independent Sample Surveys: Design Issues and Aggregation of Survey Results—✦ Raymond Okafor, University of Lagos, Nigeria

10:50 a.m. Use of Estimating Equations and Quadratic Inference Functions in Complex Surveys—✦ Leigh Harrod, Oregon State University; Virginia Lesser, Oregon State University; Annie Qu, Oregon State University

11:05 a.m. Simulation Comparison of Variable Selection and Classification Methods—✦ Jun Liu, RTI International; Shiyeng Wu, RTI International; Robert Morris, RTI International; Seungho Huh, RTI International; Jiantong Wang, RTI International; James Raymer, RTI International; Ye Hu, RTI International; Larry Michael, RTI International

11:20 a.m. Preliminary Testing Procedures for Regression with Survey Samples—✦ Yu Wu, Iowa State University; Wayne A. Fuller, Iowa State University

11:35 a.m. A Comparison of Test Statistics for Complex Survey Data when the Degrees of Freedom Is Small—✦ Lester Curtin, U.S. Centers for Disease Control and Prevention; Barry Graubard, National Cancer Institute

11:50 a.m. Regression Estimator with Estimated Population Quantities and Its Use in Two-phase Sampling—✦ Mingue Park, University of Nebraska

12:05 p.m. The Consequences of Nonrandom Sampling for Confidence Intervals—✦ Michael Mosier, Washburn University

146
✦ Item Imputation—Contributed
Section on Survey Research Methods, Social Statistics Section
Chair(s): Liza M. Nirelli, Iowa State University

10:35 a.m. Item Imputation Made Easy—✦ Andrea R. Piesse, Westat; David R. Judkins, Westat; Zizhong Fan, Westat

10:50 a.m. Mass Imputation—✦ Karol Krotki, RTI International; Darryl Creel, RTI International

11:05 a.m. Evaluation of Imputation Methods for Complex Measures—✦ Jan Goebel, DIW Berlin

11:20 a.m. Evaluation of PCA/CHAID for the Creation of Imputation Classes—✦ Marcus Berzofsky, RTI International; June Cong, RTI International; Roy Whitmore, RTI International

11:35 a.m. Multiple Imputation under Multivariate gh Family of Distributions—✦ Yulei He, University of Michigan; Raghunathan E. Trivellore, University of Michigan

11:50 a.m. The Fragile Families and Child Well-being Study: Multiple Imputations for the Missing Fathers—✦ Soma Roy, The Ohio State University; Elizabeth A. Stasny, The Ohio State University

12:05 p.m. Floor Discussion
Health Policy, Public Health

03 Arkansas Act 1220 Evaluation: Multistage Stratified Surveys with PPS Sampling—✦ C. Heath Gauss, University of Arkansas for Medical Sciences; Zoran Bursac, University of Arkansas for Medical Sciences; Martha Phillips, University of Arkansas for Medical Sciences; LeaVonne Pulley, University of Arkansas for Medical Sciences; Delia West, University of Arkansas for Medical Sciences; James Racynski, University of Arkansas for Medical Sciences

04 Evaluation of Smoothing Methods for Estimating Mortality Dynamics over Age and Time with Application to U.S. Mortality—✦ Kirill Andreev, Queen’s University

05 Integration of Computed Patient Anatomic and Case Data with Clinical Insight: an Ontology for ‘Case Type,’ Combining Computed Statistics with Clinician-provided Text, and Diagnoses—Christopher Overton, Align Technology; ✦ Michael Zakharevich, Align Technology

Sampling and Survey Methodology

06 The Construction of Confidence Intervals for Extreme Percentiles—✦ Margaret Carroll, National Center for Health Statistics

07 Sampling Excluding Units in Species Diversity Study—✦ Kyoungah See, Miami University; A. John Bailer, Miami University; Tom Crist, Miami University

08 An Empirical Comparison of Multivariate Sample Allocation Methods—Kimberly Henry, U.S. Internal Revenue Service; ✦ Yahia Ahmed, U.S. Internal Revenue Service


10 Mode Effects in a Safety and Health Survey of Health Care Workers: Findings from a Pilot Test at a Regional Medical Center—✦ Karl Sieber, National Institute of Occupational Safety and Health; James M. Boiano, National Institute of Occupational Safety and Health; Gregory M. Piacitelli, National Institute of Occupational Safety and Health; James D. Catalano, Battelle Centers for Public Health Research and Evaluation; Nicholas J. Heyer, Battelle Centers for Public Health Research and Evaluation; Payn Betsy, Battelle Centers for Public Health Research and Evaluation

Social and Behavioral Science


12 A Measurement of Missouri School Board Member Training—✦ Angela Walmsley, St. Louis University; Carol Lupardus, St. Louis Community College

13 Clinical Ethics Consultation—✦ Terry Tomazic, St. Louis University; Emily Anderson, St. Louis University; Valerie Badro, St. Louis University; Barry Katz, St. Louis University

14 Transitioning the Equal Employment Opportunity (EEO) File from the Decennial Census to the American Community Survey (ACS)—✦ Katharine Earle, U.S. Census Bureau

15 A Multivariate Statistical Analysis of Crime Rate in U.S. Cities—✦ Ralph Gedeon, University of Florida; Kendall Williams, Howard University

Sports, Art, Entertainment

16 The Effects of Elevation on Slugging Percentage in Major League Baseball—✦ Jay Schaffer, University of Northern Colorado; Erik Heiny, University of Northern Colorado

Teaching, Training, Consulting

17 Rapid-feedback Quizzing and Methods of Implementation: a Case Study in Classroom Research—✦ Dexter C. Whittinghill, Rowan University; John Chen, Rowan University; Jennifer Kadlowec, Rowan University

18 Assessment of Introductory Statistics and Statistics Programs—✦ Julia Norton, California State University, East Bay; Jean C. Ellis, California State University, East Bay; Jaimyoung Kwon, California State University, East Bay

19 Using Standard Statistical Software Packages To Make Statistical Inferences about a Linear Combination of Regression Parameters—✦ J. Burdeane Ornis, Butler University; Bruce Bowerman, Miami University of Ohio

20 Educating the States: a Multivariate Statistical Analysis of Education—✦ Sara Blight, University of Arizona; Nick Imhoite, Xavier University

21 A Biostatistics Workbook for Medical Students—✦ L. Jane Goldsmith, University of Louisville; Elizabeth S. Goldsmith

22 The Statistics Concept Inventory: a Tool for Measuring Learning in Introductory Statistics—✦ Kirk Allen, University of Oklahoma; Andrea Stone, University of Oklahoma; Maria Cohenour, University of Oklahoma; Teri Reed Rhoads, University of Oklahoma; Teri J. Murphy, University of Oklahoma; Robert Terry, University of Oklahoma

Speaker Luncheon 12:30 p.m.—1:50 p.m.
Roundtable Luncheons 12:30 p.m.–1:50 p.m.

ML01 Issues in the Use and Interpretation of Subgroup Analyses in Clinical Trials—Cristina Gassmann-Mayer, Johnson & Johnson

ML02 Data Mining Clinical Trial Data: Dredging or Innovative Exploration?—Mani Lakshminarayanan, Pfizer, Inc.; Jose Alvir, Pfizer, Inc.

ML03 Sample Size Reestimation and Other Innovative Adaptive Designs in Clinical Trials—Jeff Maca, Novartis Pharmaceuticals

ML04 Data-intensive Strategies in Drug Discovery: Opportunities for Statisticians—Keith Soper, Merck & Co., Inc.

ML05 Statistical Issues Related to Development of Prevention Drugs—James T. Symanowski, Eli Lilly and Company

ML06 Last-observation-carried-forward: Primary, Secondary, or Unnecessary Analysis?—Bruce Binkowitz, Merck Research Laboratories

ML07 Metaanalyses: Past, Present, and Future—Charles Anello, U.S. Food and Drug Administration

ML11 Clinical Risk Adjustment of Patient Outcomes When Sample Size Is Small—James Cubelli, Hoag Memorial Hospital Presbyterian; Martin Kleinbart, Hoag Memorial Hospital Presbyterian

ML12 Perspectives on the Collection, Analysis, and Implications of Statistical Data on Race/Ethnicity—Mark C. Fulcomer, Richard Stockton College of New Jersey; S. David Kriska, Restat Systems, Inc.; Marcia M. Sass, UMDNJ School of Public Health

ML13 Analysis of Cost Effectiveness Data—John G. Jiang, Cephalon, Inc.

ML08 Does the ASA Need Standards for Disclosure of Conflict of Interest in Statistical Talks and Articles?—Giovanni Parmigiani, Johns Hopkins University

ML14 Statistics in Internetland—James Marron, The University of North Carolina at Chapel Hill

ML09 Measuring Processes in Statistical Agencies—John M. Bushery, U.S. Census Bureau

ML15 Successful Strategies for Screening DOEs—Shari Kraber, Stat-Ease, Inc.

ML16 Statistics in Nanotechnology—J. C. Lu, Georgia Institute of Technology

ML10 Patient Centeredness and Women and Men of Diverse Background—Harvey A. Schwartz, Agency for Healthcare Research and Quality

ML17 Statistical Visualization for Trees and Forests—Michael Minnotte, Utah State University

ML18 Statistics for Research in the Polar and Boreal Regions of the Globe—Timothy G. Gregoire, Yale University

ML19 Hypothesis Versus Data-driven Modeling—Paola Sebastiani, Boston University
158  **MCC-Ballroom B**
**Section on Survey Research Methods Roundtable Luncheons (fee event)—Luncheons**
Organizer(s): David R. Judkins, Westat
ML20  The American Community Survey (ACS) Challenges for Replacing the Census Long Form—✦ Rajendra P. Singh, U.S. Census Bureau
ML21  Sample Design Challenges in International Surveys—♦ Sheila A. Krawchuk, Westat

159  **MCC-Ballroom B**
**Social Statistics Section Roundtable Luncheon (fee event)—Luncheons**
Organizer(s): Juanita Tamayo Lott, U.S. Census Bureau
ML22  Frontline View of Data Collection Operations—♦ Kathleen Ludgate, U.S. Census Bureau

160  **MCC-Ballroom B**
**Section on Teaching of Statistics in the Health Sciences Roundtable Luncheon (fee event)—Luncheons**
Organizer(s): Janet Tooze, Wake Forest University School of Medicine
ML23  Assessment of Medical Students and Postgraduate Physicians in Biostatistics Courses—♦ Reena Deutsch, University of California, San Diego

161  **MCC-Ballroom B**
**Section on Statistical Education Roundtable Luncheons (fee event)—Luncheons**
ML24  The Statistical Preparation of Preservice Teachers—♦ John Gabrosek, Grand Valley State University
ML25  Inquiry-based Learning in the Introductory Statistics Classroom—♦ Deborah Rumsey, The Ohio State University
ML26  ‘How-squared’ to Implement Writing Assignments in a Statistics Classroom—♦ Amy Phelps, Duquesne University

162  **MCC-Ballroom B**
**Section on Risk Analysis Roundtable Luncheon (fee event)—Luncheons**
Organizer(s): Ingo Ruczinski, Johns Hopkins University
ML27  Genetic Epidemiology and Disease Risk—♦ M. Daniele Fallin, Johns Hopkins University

163  **MCC-Ballroom B**
**Section on Statistical Consulting Roundtable Luncheon (fee event)—Luncheons**
Organizer(s): Todd G. Nick, Cincinnati Children’s Hospital Medical Center
ML28  Working with Clients and Researchers: Communication Is the Key—♦ Thomas Loughin, Kansas State University

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164  **MCC-200 ABC**
**Late Breaking Session 1: Bias in Exit Polls**
The ASA, ENAR, IMS, SSC, WNAR
Organizer(s): Clyde Tucker, Bureau of Labor Statistics
Chair(s): Clyde Tucker, Bureau of Labor Statistics
2:05 p.m.  Exit Poll Bias in the 2004 U.S. General Election—♦ Warren Mitofsky, Mitofsky International
2:25 p.m.  Ohio Election Analysis—♦ Mary Batcher, Ernst & Young LLP
2:45 p.m.  Exit Polls in the Ukraine—♦ Anna Andreenkova, CESSI, Ltd.
3:05 p.m.  Investigating Causes of within-Precinct Error in Exit Polls: Confounds and Controversies—Elizabeth Liddle, University of Nottingham; ♦ Mark Lindeman, Bard College
3:25 p.m.  Searching for Errors in Exit Polls: Interviewer-respondent Interactions—♦ Kathleen Frankovic, CBS News
3:45 p.m.  Floor Discussion

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165  **MCC-200 F**
**Medallion Lecture 3—Invited**
IMS
Organizer(s): David Madigan, Rutgers, The State University of New Jersey
Chair(s): Jonathan Taylor, Stanford University
2:05 p.m.  A Quasi-Monte Carlo Metropolis Algorithm—♦ Art B. Owen, Stanford University
3:35 p.m.  Floor Discussion

166  **MCC-200 DE**
**Inference and Prediction under Kullback-Leibler Loss—Invited**
IMS, Section on Bayesian Statistical Science
Organizer(s): Edward I. George, University of Pennsylvania
Chair(s): Xinyi Xu, University of Pennsylvania
2:05 p.m.  Bayesian Prediction under Relative Entropy Regret—♦ Trevor J. Sweeting, University College London
2:35 p.m.  Asymptotic Admissibility of Parametric Density Estimators—♦ John A. Hartigan, Yale University; Mihaela Asian, Yale University

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**Invited Sessions 2:00 p.m.–3:50 p.m.**

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**SOLD OUT**
3:05 p.m.  High-dimensional Predictive Estimation—✦ Edward I. George, University of Pennsylvania; Lawrence Brown, University of Pennsylvania; Feng Liang, Duke University; Xinyi Xu, University of Pennsylvania

3:35 p.m.  Floor Discussion

167  
★ The Pollution Blame Game: Quantifying the Impact and Composition of Pollution Sources—Invited
Section on Statistics and the Environment, WNAR
Organizer(s): William F. Christensen, Brigham Young University
Chair(s): Dale Zimmerman, The University of Iowa

2:05 p.m.  Iterated Confirmatory Factor Analysis for Pollution Source Apportionment—✦ William F. Christensen, Brigham Young University

2:30 p.m.  Assessment of Model Uncertainty in Multivariate Receptor Modeling—✦ Eun Sug Park, Texas Transportation Institute

2:55 p.m.  Application of Multiway Factor Analysis to Airborne Particle Composition Data—✦ Philip K. Hopke, Clarkson University; Emma P. Treplet, University of Barcelona

3:20 p.m.  Disc: Clifford Spiegelman, Texas A&M University/Texas Transportation Institute

3:40 p.m.  Floor Discussion

168  
★ Statistical Issues in High-throughput Chemistry—Invited
Section on Physical and Engineering Sciences
Organizer(s): Jacqueline M. Hughes-Oliver, North Carolina State University
Chair(s): Jacqueline M. Hughes-Oliver, North Carolina State University

2:05 p.m.  How Does One Describe a Molecule to a Computer?—✦ Yvonne Martin, Abbott Laboratories

2:30 p.m.  A Three-block Analysis of Chemical Reaction Data—✦ S. Stanley Young, National Institute of Statistical Sciences; Kejun Liu, GlaxoSmithKline; Salvadore Profeta, Jr., University of South Carolina; Sean Ge, Sanofi-Aventis

2:55 p.m.  Identifying Quantitative Structure-activity Relationships Using Optimal Bit String Trees—✦ Ke Zhang, North Carolina State University; Jacqueline M. Hughes-Oliver, North Carolina State University; S. Stanley Young, National Institute of Statistical Science

3:20 p.m.  Disc: Douglas M. Hawkins, University of Minnesota

3:40 p.m.  Floor Discussion

169  
MCC-200 G
Mapping Data—Invited
IMS, WNAR, Section on Statistical Graphics
Organizer(s): Mark H. Hansen, University of California, Los Angeles
Chair(s): Mark H. Hansen, University of California, Los Angeles

2:05 p.m.  Elsewhere Mapping—✦ Janet Abrams, University of Minnesota

2:30 p.m.  Enabling Statistics Tools and Techniques for Embedded Networked Sensing—✦ William Kaiser, University of California, Los Angeles

2:55 p.m.  Mapping Social Landscapes—✦ Judith Donath, Massachusetts Institute of Technology

3:20 p.m.  Red State, Blue State: Data Maps in the Media—✦ Matthew Ericson, The New York Times

3:45 p.m.  Floor Discussion

170  
MCC-212 AB
★ Statistical Analysis and Modeling of Complex Traits—Invited
SSC, Section on Survey Research Methods
Organizer(s): Lei Sun, University of Toronto
Chair(s): Lei Sun, University of Toronto

2:05 p.m.  Likelihood Inference of Disease Associations with a Genetic Factor and Independent Continuous Attribute from Case-control Data—✦ Ji-Hyung Shin, Simon Fraser University; Jinko Graham, Simon Fraser University; Brad McNeney, Simon Fraser University

2:30 p.m.  Joint Analysis of False Discovery Rate and Nondiscovery Rate—✦ Radu Craiu, University of Toronto; Lei Sun, University of Toronto

2:55 p.m.  Nonparametric Order-restricted Inference for Spatial and Temporal Microarray Data—✦ Xin Gao, York University

3:20 p.m.  Reduction of Effect Estimate Bias in Genomewide Studies by Resampling—✦ Shelley B. Bull, University of Toronto; Lei Sun, University of Toronto; Longyang Wu, Samuel Lunenfeld Research Institute

3:45 p.m.  Floor Discussion
171  **Streaming Graphics—Invited**  
Section on Statistical Graphics  
Organizer(s): Lee Wilkinson, Northwestern University  
Chair(s): Lee Wilkinson, Northwestern University  
2:05 p.m. Streaming Graphics for Real-time Network Monitoring—  
Lorraine Denby, Avaya Labs Research; James Landwehr, Avaya Labs Research; Akshay Adhikari, Avaya Labs Research; Jean Meloche, Avaya Labs Research  
2:35 p.m. Change Detection and Visualization in Datastreams—  
Stephen G. Eick, University of Illinois, Chicago; Robert Grossman, University of Illinois, Chicago  
3:05 p.m. Interactive Visualization of Streaming Data— Andrew A. Norton, SPSS Inc  
3:35 p.m. Floor Discussion

172  **Recent Advances in Nonparametric and Semiparametric Estimation—Invited**  
Biometrics Section, Section on Nonparametric Statistics, ENAR  
Organizer(s): David Ruppert, Cornell University  
Chair(s): Douglas Nychka, National Center for Atmospheric Research  
2:05 p.m. Hierarchical Functional Data: Semiparametric and Nonparametric Methods for Modeling Functional Dependence with Application to Colonic Crypt Signaling— Raymond J. Carroll, Texas A&M University  
2:30 p.m. Statistical Models for Complex Datasets— Grace Wahba, University of Wisconsin, Madison  
2:55 p.m. Extensions of Penalized Spline Regression for Natural Resource Monitoring Applications— Jay Breidt, Colorado State University  
3:20 p.m. Disc: Jean D. Opsomer, Iowa State University  
3:40 p.m. Floor Discussion

173  **Secure Statistical Analysis of Distributed Databases—Invited**  
National Institute of Statistical Sciences, Section on Statisticians in Defense and National Security, Section on Government Statistics  
Organizer(s): Alan F. Karr, National Institute of Statistical Sciences  
Chair(s): Alan F. Karr, National Institute of Statistical Sciences  
2:05 p.m. Privacy Preserving Statistical Analysis for Horizontally Partitioned Datasets— Xiaodong Lin, University of Cincinnati/NISS  
2:35 p.m. Privacy-preserving Statistical Analyses of Distributed Data Using Data Perturbations— Ashish P. Sanil, National Institute of Statistical Sciences  
3:05 p.m. Statistical Analysis in the Presence of Matching Uncertainty— Max-Louis Buot, Carnegie Mellon University  
3:35 p.m. Floor Discussion

174  **Sample Surveys in Unsettled Situations—Invited**  
Section on Survey Research Methods, Social Statistics Section  
Organizer(s): David Banks, Duke University  
Chair(s): Demissie Alemayehu, Pfizer, Inc.  
2:05 p.m. Designing Questionnaires for Human Rights Violations Measurement— Daniel Manrique, Pontificia Universidad Católica del Perú; Jana Asher, Carnegie Mellon University  
2:30 p.m. Interview Format and Sampling Strategies in Human Rights Data Collection: Experiences and Results from East Timor and Sierra Leone— Patrick Ball, The Benetech Initiative; Romesh Silva, The Benetech Initiative  
2:55 p.m. Health and Human Rights in Developing Countries: What Surveys Do—and Don’t!— Lara Wolfson, World Health Organization  
3:40 p.m. Floor Discussion

175  **Statistical Methods for Customer Base Analysis—Invited**  
Section on Statistics and Marketing, Section on Physical and Engineering Sciences, Section on Quality and Productivity  
Organizer(s): Wendy Moe, University of Maryland  
Chair(s): Tom Shively, The University of Texas at Austin  
2:05 p.m. Simple Models for Customer-base Analysis— Bruce Hardie, London Business School; Peter Fader, University of Pennsylvania  
2:25 p.m. RFM and CLV: Using Iso-value Curves for Customer-base Analysis— Peter Fader, University of Pennsylvania; Bruce Hardie, London Business School; Ka Lok Lee, Catalina Marketing  
2:45 p.m. A Hidden Markov Model of Customer Relationship Dynamics— Oded Netzer, Columbia University; James Lattin, Stanford University; V. Subravanan, Stanford University  
3:05 p.m. A Multicategory View of Customer Relationships— Pradeep Chintagunta, The University of Chicago; Xiaojie Dong, Northwestern University; Puneet Manchanda, The University of Chicago
3:25 p.m. The Impact of a New Competitive Entry on an Incumbent’s Customer Base: Structural Changes versus Dynamic Effects— Wendy Moe, University of Maryland; Sha Yang, New York University; Tom Shively, The University of Texas at Austin

3:45 p.m. Floor Discussion

176
MCC-211 B
ICH-E5 Application: To Date and the Future—Topic Contributed
Biopharmaceutical Section, WNAR
Organizer(s): Yoko Tanaka, Eli Lilly and Company
Chair(s): Yoko Tanaka, Eli Lilly and Company

2:05 p.m. Bridging: a Case Study with Raloxifene in a Japanese Population— Steven Watts, Eli Lilly and Company

2:25 p.m. Some Issues in Global Drug Development: from Bridging to Multinational Trials— Yoichi Ii, Pfizer Japan, Inc.

2:45 p.m. An Analysis for Multiple Parameter Estimation Problems— Hajime Uno, Harvard School of Public Health; Masahiro Takeuchi, Kitasato University Graduate School

3:05 p.m. Statistical Issues and Related Discussion of Global Drug Development— Yuki Ando, Pharmaceuticals and Medical Devices Agency

3:25 p.m. Disc: Charles Anello, U.S. Food and Drug Administration

3:45 p.m. Floor Discussion

177
MCC-201 AB
Business Consulting and Services Modeling—Topic Contributed
Business and Economics Statistics Section, Section on Statistical Graphics
Organizer(s): Yasuo Amemiya, IBM
Chair(s): Yasuo Amemiya, IBM

2:05 p.m. Statistical Models for Targeted Marketing of Services Engagements— Bonnie Ray, IBM

2:25 p.m. Incremental Quantiles for Monitoring Business Services— Scott Vander Wiel, Bell Labs, Lucent Technologies; Diane Lambert, Bell Labs, Lucent Technologies; John M. Chambers, Bell Labs, Lucent Technologies; David A. James, Bell Labs, Lucent Technologies

2:45 p.m. A Response Surface Method for Simulation-based Modeling and Optimization in Business Consulting— Zhiguang Qian, Georgia Institute of Technology

3:05 p.m. A Statistical Approach to Optimal Consolidation of Computer Workload— Ta-Hsin Li, IBM

3:25 p.m. Discovery, Visualization, and Performance Analysis of Enterprise Workflow— Ping Zhang, Avaya Labs Research; Patrick H. Tendick, Avaya Labs Research

3:45 p.m. Floor Discussion

178
MCC-202 AB
Savage Award 2004 Winners—Topic Contributed
Section on Bayesian Statistical Science
Organizer(s): Merlise Clyde, Duke University
Chair(s): Merlise Clyde, Duke University

2:05 p.m. Bayesian Models for Regulatory Motif Discovery and Clustering— Shane Jensen, University of Pennsylvania

2:25 p.m. Bayesian Inference for Matched Case-control Studies— Samiran Sinha, Texas A&M University

2:45 p.m. Bayesian Methods in Bidding Processes— Jesus Palomo, SAMSI/Duke University

3:05 p.m. Decision Models for Data Disclosure Limitation Problems— Trottini Mario, University of Alicante

3:25 p.m. Stationary Models via a Bayesian Approach— Ramsés H. Mena, IIMAS-UNAM

3:45 p.m. Floor Discussion

179
MCC-205 A
Statistical Literacy 2005—Topic Contributed
Section on Statistical Education, Social Statistics Section
Organizer(s): Milo Schield, Augsburg College
Chair(s): Milo Schield, Augsburg College

2:05 p.m. Epidemiology as a Context for Teaching Confounding in Elementary Statistics— Chris Olsen, Cedar Rapids Community Schools

2:25 p.m. Toys, Tales, and a Journalist’s View of Statistics— Lewis Cope, Minneapolis Star & Tribune (Retired)

2:45 p.m. What Can ‘CSI’ Teach Us about Statistical Literacy?— Jane Miller, Rutgers, The State University of New Jersey

3:05 p.m. Statistical Literacy Online at Capella University— Marc Isaacson, Augsburg College

3:25 p.m. A Grammar-parsing Program for Descriptions and Comparisons of Percentages and Rates— Tom Burnham, Cognitive Consulting; Milo Schield, Augsburg College

3:45 p.m. Floor Discussion
180 MCC-102 C
★ Quality Management in Statistical Organizations I—
Topic Contributed
Section on Quality and Productivity, Section on Survey Research Methods, Social Statistics Section
Organizer(s): John M. Bushery, U.S. Census Bureau
Chair(s): John M. Bushery, U.S. Census Bureau
2:05 p.m. Quality Procedures in Statistical Sampling—✦ Wendy Rotz, Ernst & Young LLP; Mary Batcher, Ernst & Young LLP
2:25 p.m. Quality and the Product Development Cycle—✦ Eugene Burns, Bureau of Transportation Statistics
2:45 p.m. Quality Audits at Statistics Sweden—✦ GunLög Eiderbrant-Nilsson, Statistics Sweden
3:05 p.m. Disc: Nancy Kirkendall, Energy Information Administration
3:25 p.m. Disc: Cynthia Z. F. Clark, Office for National Statistics
3:45 p.m. Floor Discussion

181 MCC-205 B
✻ Time Series: a Bayesian Gaze at the Past, Present, and Future—Topic Contributed
Section on Bayesian Statistical Science
Organizer(s): Nalini Ravishanker, University of Connecticut
Chair(s): Nalini Ravishanker, University of Connecticut
2:05 p.m. Adaptive Simulation Methods for Time-series Models—✦ Robert Kohn, University of New South Wales; Paolo Giordani, University of New South Wales
2:25 p.m. Time-varying Covariances: a Cholesky Decomposition Approach—✦ Hedibert F. Lopes, The University of Chicago; Robert McCulloch, The University of Chicago; Ruey Tsay, The University of Chicago
2:45 p.m. Bayesian Time Series Analyses of International Conflicts—✦ John Freeman, University of Minnesota
3:05 p.m. Sequential Parameter Estimation in Stochastic Volatility Models with Jumps—✦ Jonathan Stroud, University of Pennsylvania; Michael Johannes, Columbia University; Nicholas Polson, The University of Chicago
3:25 p.m. KFC: a Kalman Filtering Approach To Monitor Massive Contingency Tables—✦ Deepak Agarwal, AT&T Labs-Research; Colin Goodall, AT&T Labs-Research; William DuMouchel, Lincoln Technologies
3:45 p.m. Floor Discussion

182 MCC-103 E
Section on Government Statistics, Social Statistics Section
Organizer(s): Marilyn Seastrom, National Center for Education Statistics
Chair(s): Brian A. Harris-Kojetin, Office of Management and Budget
2:05 p.m. Monitoring Data Quality in a Federal Statistical Agency: NCES—✦ Marilyn Seastrom, National Center for Education Statistics
2:25 p.m. Monitoring Data Quality at a Federal Agency—✦ Susan Lapham, Education Statistics Services Institute
2:45 p.m. Reports from NCES on the Use of Incentives in Data Collection and the Timeliness of Data Collection and Reporting—✦ Pia Peitola, Education Statistics Services Institute
3:05 p.m. Monitoring Data Quality at a Federal Agency—✦ Deven Carlson, American Institutes for Research
3:45 p.m. Floor Discussion

183 MCC-205 D
✻ Statistical Advances in Human Brain Mapping—
Topic Contributed
Biometrics Section, WNAR
Organizer(s): Martina Pavlicova, Columbia University
Chair(s): Martina Pavlicova, Columbia University
2:05 p.m. Mining Huge-p, Small-n Data and New Image Registration Procedures—✦ Xiaofeng Wang, Case Western Reserve University; Jiayang Sun, Case Western Reserve University; Kath Bogie, The Cleveland FES Center
2:25 p.m. Magnitude and Phase Modeling for fMRI Brain Activation—✦ Daniel B. Rowe, Medical College of Wisconsin
2:45 p.m. Block Kriging in SPECT/PET Brain Images: Defining Blocks—✦ Jeffrey Spence, The University of Texas Southwestern Medical Center at Dallas; Patrick Carmack, The University of Texas Southwestern Medical Center at Dallas; Richard Gunst, Southern Methodist University; William R. Schucany, Southern Methodist University; Qihua Lin, Southern Methodist University
3:05 p.m. Making Group Inferences with Functional Magnetic Resonance Imaging Data Using Spatiotemporal Models—✦ Qihua Lin, Southern Methodist University;
Patrick Carmack, The University of Texas Southwestern Medical Center at Dallas; Richard Gunst, Southern Methodist University; William R. Schucany, Southern Methodist University; Jeffrey Spence, The University of Texas Southwestern Medical Center at Dallas

3:25 p.m. Time-frequency Functional Linear Models—Li Qin, Fred Hutchinson Cancer Research Center; Wensheng Guo, University of Pennsylvania; Brian Litt, University of Pennsylvania

3:45 a.m. Floor Discussion

184 MCC-209 AB
Multiple Analyses and Multiple Assays in Diagnostic Medicine—Topic Contributed
Section on Statistics in Epidemiology, Biopharmaceutical Section, WNAR
Organizer(s): Michael Lu, Edwards Lifesciences; Estelle Russek-Cohen, U.S. Food and Drug Administration
Chair(s): Estelle Russek-Cohen, U.S. Food and Drug Administration

2:05 p.m. Functional Sensitivity: Definition, Theory, and Evaluation Method—Patrick Meyers, Abbott Laboratories; Suha Sari, Abbott Laboratories

2:25 p.m. Multiple Assay Methods Comparison—Abha Sharma, Roche

2:45 p.m. Statistical Methods in Genetic Risk Assessment for Venous Thrombosis by a 25 Plex PCR Assay—Shiaohong Ran, Abbott Laboratories

3:05 p.m. Microarray Gene Expression Using Resonance Light Scattering Nanoparticles—Samir Lababidi, U.S. Food and Drug Administration; Daya G. Ranamukhaarachchi, U.S. Food and Drug Administration

3:25 p.m. Disc: Arthur Devault, Roche Molecular Systems

3:45 p.m. Floor Discussion

185 MCC-103 B
Coverage Improvement Research for the Decennial Census—Topic Contributed
Section on Survey Research Methods, Social Statistics Section
Organizer(s): Danny R. Childers, U.S. Census Bureau
Chair(s): Dave Sheppard, U.S. Census Bureau

2:05 p.m. Within Household Coverage Improvement in the 2004 National Census Test—Kyra Linse, U.S. Census Bureau; Dave Sheppard, U.S. Census Bureau

2:20 p.m. Penalized and Weighted K-means—George C. Tseng, University of Pittsburgh

2:25 p.m. A Criterion To Find the Optimal Size in Tight Clustering—Lung-An Li, Institute of Statistical Science, Academia Sinica; Feng-Chang Lin, University of Wisconsin, Madison; George C. Tseng, University of Pittsburgh

2:45 p.m. Results of Coverage Followup in the 2004 Census Test—Elizabeth Krejsa, U.S. Census Bureau; Dave Sheppard, U.S. Census Bureau

3:05 p.m. Design of the Census 2004 Coverage Research Followup Questionnaire—Leann Karl, U.S. Census Bureau; Ashley Landreth, U.S. Census Bureau

3:25 p.m. Unduplication of Persons and Housing Units in the 2004 Census Test—Robin Pennington, U.S. Census Bureau

3:45 p.m. Floor Discussion

Topic Contributed Panels 2:00 p.m.–3:50 p.m.

186 MCC-103 D
Designing Products for the American Community Survey—Topic Contributed
Section on Government Statistics, Social Statistics Section, Section on Survey Research Methods
Organizer(s): Patricia Becker, APB Associates/SEMCC
Chair(s): Edward Spar, COPAFS
Panelists: Preston J. Waite, U.S. Census Bureau; Patricia Becker, APB Associates/SEMCC; Ken Hodges, Claritas; Leonard Gaines, Empire State Development; Lisa Neidert, University of Michigan

3:45 p.m. Floor Discussion

Regular Contributed Sessions 2:00 p.m.–3:50 p.m.

187 MCC-208 B
Topics in Clustering and Heterogeneity—Contributed
Biometrics Section, WNAR
Chair(s): Ronald Gangnon, University of Wisconsin, Madison

2:05 p.m. Kernel Principal Component Analysis and Dimension Reduction Using Kernel Regularization—Fan Lu, University of Wisconsin, Madison; Grace Wahba, University of Wisconsin, Madison; Stephen Wright, University of Wisconsin, Madison; Sunduz Keles, University of Wisconsin, Madison

2:20 p.m. Penalized and Weighted K-means—George C. Tseng, University of Pittsburgh

2:35 p.m. A Criterion To Find the Optimal Size in Tight Clustering—Lung-An Li, Institute of Statistical Science, Academia Sinica; Feng-Chang Lin, University of Wisconsin, Madison; George C. Tseng, University of Pittsburgh
188  MCC-208 A

Detecting Differential Gene Expression—Contributed
Biometrics Section, WNAR
Chair(s): Charalampos Papachristou, The Ohio State University

2:05 p.m.  Statistically Designing Microarray Experiments and Analyzing Gene Expression Data—Jane Chang, Bowling Green State University; Jason Hsu, The Ohio State University; Tao Wang, The Ohio State University

2:20 p.m.  Using Weighted Permutation Scores To Detect Differential Gene Expression with Microarray Data—Xu Guo, Affymetrix, Inc.; Wei Pan, University of Minnesota

2:35 p.m.  A New Efficient Statistical Method for Detecting Differentially Expressed Genes—Sunil Mathur, The University of Mississippi

2:50 p.m.  Power and Type I Error in a Global Test of Differential Genetic Expression—Gary Gadbury, University of Missouri, Rolla; Wanrong Yin, University of Missouri, Rolla; V. A. Samaranayake, University of Missouri, Rolla

3:05 p.m.  Use of Hadamard Matrices in Identifying Differentially Expressed Genes—Yu Ding, Temple University; Damaraju Raghavarao, Temple University

3:20 p.m.  Sample Size Calculation for Multiple Testing in Microarray Data Analysis—Heejung Bang, Cornell University; Sin-Ho Jung, Duke University; S. Stanley Young, National Institute of Statistical Sciences

3:35 p.m.  Probabilities of Spurious Connections in Gene Networks: Application to Expression Time Series—David Bickel, Pioneer Hi-Bred International

Longtime Member Reception

by invitation only

Monday, August 8, 6:30 p.m. to 7:30 p.m.

If you joined the ASA 35 or more years ago, the American Statistical Association would like to thank you for your longtime support.

Please join us for a reception in your honor.

Sponsored by the ASA Membership Committee.
### GENERAL PROGRAM SCHEDULE

**MCC-208 D**

**Survival Analysis and Risk Assessment** — Contributed Biometrics Section, Biopharmaceutical Section, WNAR  
**Chair(s):** Alex Tsodikov, University of California, Davis

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>2:05 p.m.</td>
<td>Estimating and Testing Random Coefficients in a Proportional Hazard Frailty Model — Shibao Feng, Georgetown University Medical Center; Robert A. Wolfe, University of Michigan</td>
</tr>
<tr>
<td>2:20 p.m.</td>
<td>Marginal Analysis of Clustered Survival Data When Cluster Size Is Informatiive — Xiuyu Cong, Rice University; Guosheng Yin, The University of Texas M. D. Anderson Cancer Center; Yu Shen, The University of Texas M. D. Anderson Cancer Center</td>
</tr>
<tr>
<td>2:35 p.m.</td>
<td>Estimation of Center Effects in Survival Analysis — Douglas E. Schaubel, University of Michigan</td>
</tr>
<tr>
<td>2:50 p.m.</td>
<td>A Self-consistent Estimator in the Competing Risk Model with One Arm Subject to Interval Censoring — Xiaodong Luo, Columbia University; Wei-Yann Tsai, Columbia University; Louise Kuhn, Columbia University</td>
</tr>
<tr>
<td>3:05 p.m.</td>
<td>A Novel Approach to Testing Equality of Survival Distributions When the Group Memberships Are Censored — Dipankar Bandyopadhyay, University of Georgia; Somnath Datta, University of Georgia</td>
</tr>
<tr>
<td>3:20 p.m.</td>
<td>Multiplicity-adjusted Inferences in Risk Assessment: Benchmark Analysis with Quantal Response Data — Daniela Nitcheva, South Carolina Cancer Center; Walter W. Piezorsch, University of South Carolina; Webster West, University of South Carolina; Ralph Kodell, National Center for Toxicological Research</td>
</tr>
<tr>
<td>3:35 p.m.</td>
<td>Confidence Regions for Jointly Measuring Benefit and Risk — Michele L. Shaffer, Pennsylvania State College of Medicine; Kristi L. Watterberg, The University of New Mexico</td>
</tr>
</tbody>
</table>

### GENERAL PROGRAM SCHEDULE

**MCC-200 J**

**Statistical Applications** — Contributed General Methodology  
**Chair(s):** Minge Xie, Rutgers, The State University of New Jersey

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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>2:05 p.m.</td>
<td>Effect of Spatial Scale on Modeling and Predicting Mean Cavity Tree Density — Stephen S. Lee, University of Idaho; Zhaofei Fan, University of Missouri, Columbia; Stephen Shifley, USDA Forest Service</td>
</tr>
<tr>
<td>2:20 p.m.</td>
<td>Statistical Methods for Evaluating Clinical Teaching — Jay Mandrekar, Mayo Clinic; Thomas J. Beckman, Mayo Clinic</td>
</tr>
<tr>
<td>2:35 p.m.</td>
<td>The Role of Viral Load Measures in the Cost-effectiveness Analysis of ART — Martha Lee, Georgetown University; Juwon Song, The University of Texas Health Science Center at Houston</td>
</tr>
<tr>
<td>2:50 p.m.</td>
<td>A Comparison Study of Models for the Human Sex Ratio — Sababrata Banerjee, New Jersey Institute of Technology; Wonsuk Yoo, New Jersey Institute of Technology</td>
</tr>
<tr>
<td>3:05 p.m.</td>
<td>Estimating the Effect of a Disease Outbreak: an Application of Generalized Additive Models — Garrick L. Wallstrom, University of Pittsburgh; William R. Hogan, University of Pittsburgh; Michael M. Wagner, University of Pittsburgh</td>
</tr>
<tr>
<td>3:20 p.m.</td>
<td>Predicting Session Attendance at the 2005 JSM — Ye Zhong, University of Pennsylvania; Michael R. Elliott, University of Pennsylvania; John Kolassa, Rutgers, The State University of New Jersey; Daniel Heitjan, University of Pennsylvania</td>
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<tr>
<td>3:35 p.m.</td>
<td>Floor Discussion</td>
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**MINNEAPOLIS**
### GENERAL PROGRAM SCHEDULE

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>2:05 p.m.</td>
<td>The Construction of Composite Scores in Analgesia Studies— David Bristol, Purdue Pharma LP; Genming Shi, Schering-Plough</td>
</tr>
<tr>
<td>2:20 p.m.</td>
<td>Analysis of Repeated Measures Analgesic Studies— Guoyong Jiang, Cephalon, Inc.; Lilliam Kingsbury, Cephalon, Inc.</td>
</tr>
<tr>
<td>2:35 p.m.</td>
<td>Propensity Score Comparison of Antibiotic Therapy from Inpatient Data— Michael A. O’Connell, Waratah Corp.</td>
</tr>
<tr>
<td>2:50 p.m.</td>
<td>Simulation Comparison of SAS Proc Multitest Permutation Adjustment Option for the Analysis of Multiple Measurements in the Two-period Crossover Design— Mark Burgert, GlaxoSmithKline</td>
</tr>
<tr>
<td>3:05 p.m.</td>
<td>Robust Estimate of Confidence Interval of Treatment Effect— Kao-Tai Tsai, Aventis Pharmaceuticals</td>
</tr>
<tr>
<td>3:20 p.m.</td>
<td>Bootstrap Confidence Intervals for Probability of Better Outcome— Haitao Gao, Eli Lilly and Company</td>
</tr>
<tr>
<td>3:35 p.m.</td>
<td>Issues in Mega Clinical Trials— Lu Cui, Aventis Pharmaceuticals</td>
</tr>
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</table>

### 193 Classification and Genomics—Contributed

**Section on Nonparametric Statistics, ENAR, WNAR, Biometrics Section**

Chair(s): Hui Xie, Boston University

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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>2:05 p.m.</td>
<td>Adaptive Control and Significance Threshold: Extension of False Discovery Rate Control— Cheng Cheng, St. Jude Children’s Research Hospital; Stanley Pounds, St. Jude Children’s Research Hospital</td>
</tr>
<tr>
<td>2:20 p.m.</td>
<td>Choice of Neighbor Order in Nearest-neighbor Classification and a Comparison with Bagged Nearest-neighbor Methods— Richard Samworth, Centre for Mathematical Sciences</td>
</tr>
<tr>
<td>2:35 p.m.</td>
<td>Multicategory Psi-learning— Yufeng Liu, The University of North Carolina at Chapel Hill</td>
</tr>
<tr>
<td>2:50 p.m.</td>
<td>Determining the Copy Number States from Array CGH Data— E. Venkatraman, Memorial Sloan-Kettering Cancer Center; Adam Oshen, Memorial Sloan-Kettering Cancer Center</td>
</tr>
<tr>
<td>3:05 p.m.</td>
<td>Stochastic Linear Hypotheses for Nonparametric Inference of High-dimensional Data— Jeanne Kowalski, Johns Hopkins University</td>
</tr>
</tbody>
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### 194 Multilevel Modeling—Contributed

**Section on Health Policy Statistics, Section on Bayesian Statistical Science, Social Statistics Section, WNAR**

Chair(s): James O’Malley, Harvard Medical School

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>2:05 p.m.</td>
<td>A Hierarchical Model for Multiple Binary Process Measures— Robert B. Gerzoff, U.S. Centers for Disease Control and Prevention; Theodore J. Thompson, U.S. Centers for Disease Control and Prevention</td>
</tr>
<tr>
<td>2:20 p.m.</td>
<td>A Bayesian Logistic-mixture of Normal Distributions Hierarchical Model for Hospital Mortality— Peter Austin, Institute for Clinical Evaluative Sciences</td>
</tr>
<tr>
<td>2:35 p.m.</td>
<td>GEE Diagnostics for Marginal Association Models— John S. Preisser, The University of North Carolina at Chapel Hill</td>
</tr>
<tr>
<td>2:50 p.m.</td>
<td>Repeated Events Survival Models: the Conditional Frailty Model— Janet Box-Steffensmeier, The Ohio State University; Suzanna DeBoef, The Pennsylvania State University</td>
</tr>
<tr>
<td>3:05 p.m.</td>
<td>Modeling Onset and Recovery of Posttraumatic Stress Disorder for Longitudinal Data with Dropouts— Haekyung Jeon-Slaughter, University of Oklahoma Health Sciences Center; Carol S. North, Washington University School of Medicine; Betty Pfefferbaum, University of Oklahoma Health Sciences Center</td>
</tr>
<tr>
<td>3:20 p.m.</td>
<td>Different from the Start: Profiling Minnesota Kindergarten Students in Six Kindergarten Program Types— Theresa J. Gromala, University of Minnesota</td>
</tr>
<tr>
<td>3:35 p.m.</td>
<td>Floor Discussion</td>
</tr>
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### 195 Inference, Applied Probability, and Stochastic Models—Contributed

**IMS, Section on Statistical Education**

Chair(s): Michael Fugate, Los Alamos National Laboratory

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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>2:05 p.m.</td>
<td>A Comparison of Automated Investment Strategies— Alexander White, American University; Fotios Kokkotos, American University</td>
</tr>
<tr>
<td>2:20 p.m.</td>
<td>The Lifetime of a Random Set— Peter Kiessler, Clemson University</td>
</tr>
<tr>
<td>2:35 p.m.</td>
<td>Method of Gambling Teams and Waiting Times for Patterns— Vladimir Pozdnyakov, University of Connecticut; Joseph Glaz, University of Connecticut; Martin Kulldorff,</td>
</tr>
</tbody>
</table>
Monday

GENERAL PROGRAM SCHEDULE

MCC-103 F

Statistics in the Public Arena: Politics, the Media, and Public Policy—Contributed
Social Statistics Section

Chair(s): Robert H. Rutchik, U.S. Department of Energy

2:05 p.m. Could Kerry Have Won? Optimal Political Platform Design: a Special Case of the Share-of-choices Problem—✦ James J. Cochran, Louisiana Tech University; Jeffrey D. Camm, Dartmouth University; David J. Curry, University of Cincinnati; Jon Pinnell, MarketVision Research; Rajesh Radhakrishnan, Transfreight LLC

2:20 p.m. Mediaphysics: Statistical Physics of Media Processes—✦ Dmitri Kuznetsov, Media Planning Group; Igor Mandel, Media Planning Group

2:35 p.m. Modeling Change in Municipal Fiscal Policy Using Mayoral Expenditure Data—✦ Lori Thombs, University of Missouri, Columbia; Charles Sampson, University of Missouri, Columbia

2:50 p.m. The Effect of Welfare Reform on Low-income Single Mother’s Use of Income Packaging: Paid Work, Program Participation, and Network Support—✦ Katherine Walker, U.S. Census Bureau

3:05 p.m. Hierarchical Models for a Time Series on Marijuana Abuse among Hospital Emergency Room Admissions—✦ Li Zhu, Texas A&M University; Dennis Gorman, Texas A&M University; Scott Horel, Texas A&M University

3:20 p.m. School Accountability via Hierarchical Linear Models—✦ Stephen Ponisciak, Consortium on Chicago School Research; Anthony S. Bryk, Stanford University; Stephen Raudenbush, University of Michigan

3:35 p.m. Floor Discussion

197

Questionnaires and Cognitive Issues I—Contributed Section on Survey Research Methods, Social Statistics Section

Chair(s): Kara Norman, Energy Information Administration

2:05 p.m. Modeling Context Effects in the National Survey on Drug Use and Health (NSDUH)—✦ Kevin Wang, RTI International; Rodney Baxter, RTI International; Dicy Painter, Substance Abuse and Mental Health Services Administration

2:20 p.m. An Overview of the Respondent-generated Intervals (RGI) Approach to Sample Surveys—S. James Press, University of California, Riverside; Judith Tanur, SUNY, Stony Brook

2:35 p.m. Conceptual vs. Visual Midpoints of Response Scales—✦ Mirta Galesic, Joint Program in Survey Methodology; Roger Tourangeau, Joint Program in Survey Methodology; Mick Couper, University of Michigan; Fred Conrad, Institute for Social Research

2:50 p.m. Negatively Worded Questions Cause Respondent Confusion—✦ Robert Colosi, U.S. Census Bureau

3:05 p.m. When More Is Less: a Study on the Effects of Providing Definitions to Everyday Terms on Data Quality—✦ Ting Yan, University of Maryland

3:20 p.m. Using Professionally Designed Questionnaires: Do They Collect Better Data?—✦ Kathleen Ott, National Agricultural Statistics Service; Chadd Crouse, National Agricultural Statistics Service

3:35 p.m. Floor Discussion

198

Missing Data, Imputation, and Measurement Error Adjustment—Contributed
Section on Statistics in Epidemiology, ENAR, WNAR, Biometrics Section

Chair(s): Robert Lyles, Emory University

2:05 p.m. Associations of LDL Cholesterol in the Presence of Lipid-lowering Medications: an Imputation Approach—✦ Robyn McClelland, University of Washington; Richard A. Kronmal, University of Washington

2:20 p.m. Analysis of Missing Covariate Data in Individually-matched Case-control Studies—✦ Mulugeta Gebregziabher, University of Southern California; Bryan Langholz, University of Southern California

2:35 p.m. To Impute or Weight: Handling Missing Data in Complex Epidemiologic Survey—✦ Hoang T. Nguyen, The University of Texas Medical Branch
2:50 p.m. Utilizing Race Data in an Active Public Health Surveillance System—I. Elizabeth Zell, U.S. Centers for Disease Control and Prevention

3:05 p.m. Regression with Error in Both Variables: Adjustment via Nonlinear Transformation of Replicates—Peter Holck, University of Hawaii; John Grove, University of Hawaii, Manoa

3:20 p.m. Modeling Association between Menstrual Length Characteristics and Reproductive Outcomes—Amita K. Manatunga, Emory University; Robert Lyles, Emory University; Ying Guo, Emory University; Chanley Small, Emory University; Michele Marcus, Emory University

3:35 p.m. Measurement Error Correction for Nutritional Exposures with Correlated Measurement Error: Use of the Method of Triads in a Longitudinal Setting—Bernard Rosner, Harvard Medical School

200 MCC-Level Two Lobby B
Contributed Poster Session 3—Contributed Business and Economics Statistics Section, Biometrics Section, Biopharmaceutical Section, ENAR, Section on Statistics in Epidemiology, Section on Statistics and the Environment, General Methodology
Organizer(s): Ying Kuen Cheung, Columbia University
Chair(s): Ying Kuen Cheung, Columbia University

Biometrics, Biostatistics, Epidemiology
01 Group Testing Model Estimation and Inference—Christopher R. Bilder, University of Nebraska
02 Latent Class Models for Medical Studies with Replicate Observations: Alternative Latent Structures for Observer Agreement and Diagnostic Accuracy—Andrew Baughman, U.S. Centers for Disease Control and Prevention; Michael Haber, Emory University; Hui-man X. Barnhart, Duke University
03 Modeling Reporting Delays and Corrections in Cancer Registry Data—Limin Clegg, National Cancer Institute; Eric Feuer, National Cancer Institute; Douglas Midthune, National Cancer Institute; Michael Fay, National Institutes of Health; Benjamin Hankey, National Cancer Institute; Brenda Edwards, National Cancer Institute
04 Does It Fit? Comparing Different Measures of Model Adequacy in Logistic Regression—Leann Myers, Tulane University; Hui-yi Lin, Louisiana State University
05 Two-part Models for Longitudinal Data: Comparing GEE and Random-effects Approaches—Leann Myers, Tulane University; Yeonjoo Yi, Tulane University
06 Nonparametric Tests for a Common Risk Factor—Fanesca Young, Columbia University
07 The Summary Density: a Graphical Tool for Metaanalytic Diagnostics—David Svendsgaard, National Center & Caucus on Black Aged, Inc.
08 The Distribution of the Product of Correlated P-values and Its Application to Sequence Homology Searches—Yan Xie, University of Kentucky; Richard Kryscio, University of Kentucky

Business, Financial, and Marketing Statistics

Clinical Trials, Drug Discovery
10 A Randomization Design Software for Clinical Trial—Chunshen Pan, Biovail Contract Research; Juan He, Biovail Contract Research; Corinne Campanella, Biovail Contract Research; Tat Chan, Biovail Corporation
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**Invited Sessions 8:00 p.m.–9:15 p.m.**

**MCC-200 ABC**

**IMS Presidential Address and Awards—Invited IMS**

Organizer(s): Terence P. Speed, University of California, Berkeley  
Chair(s): Terence P. Speed, University of California, Berkeley

- **8:05 p.m.** The Poisson Paradigm—Louis H. Y. Chen, National University of Singapore

- **9:00 p.m.** Floor Discussion

**American Statistical Association's Student Mixer**

Monday, August 8

- **6:00 p.m.–7:00 p.m.** Hilton-Conrad A Room

Sponsored by: Novartis Pharmaceuticals, IBM T. J. Watson Research Center, and The ASA Membership and Recruitment Committee

**Invited Sessions 4:00 p.m.–5:50 p.m.**

**MCC-Ballroom A**

President's Invited Address—Invited

The ASA, ENAR, IMS, SSC, WNAR, Biometrics Section

Organizer(s): Fritz J. Scheuren, The University of Chicago  
Chair(s): Fritz J. Scheuren, The University of Chicago

- **4:05 p.m.** A Bayes/Frequentist Roadmap—Roderick J. Little, University of Michigan

- **5:40 p.m.** Floor Discussion
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