# **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-Ramsev

#### 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

MCC-204 A 7:00 a.m.-6:00 p.m.

**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** 

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

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

**Career Placement Service** 

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

**Exhibitor Lounge** 

9:00 a.m.-10:00 a.m. H-Rochester

**Transportation Statistics Interest Group** 

Organizer(s): Promod Chandhok, Bureau of Transportation

Statistics

MCC-L100 F 9:00 a.m.-10:30 a.m.

**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

MCC-L100 H 9:00 a.m.-11:00 a.m.

**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

H-Board Room 2 10:30 a.m.-12:00 p.m.

**Council of Chapters Governing Board Chapter Status Committee Meeting (closed)** 

Chair(s): Tom Capizzi, Merck Research Laboratories; Ronald L. Wasserstein, Washburn University

H-Board Room 3 10:30 a.m.-12:00 p.m.

**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

H-Director's Row 2 12:30 p.m.–2:00 p.m.

**Section on Bayesian Statistical Science Executive Committee Meeting (closed)** 

Chair(s): Malay Ghosh, University of Florida

H-Board Room 2 12:30 p.m.-2:00 p.m.

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

H-Director's Row 3 4:00 p.m.-5:00 p.m.

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** 

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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5:00 p.m.-7:00 p.m.

H-Salon B

**NISS/SAMSI** Reception

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

5:30 p.m.-7:00 p.m.

H-Conrad C

**Christian Statisticians' Informal Discussion** 

Organizer(s): Robert Mee, University of Tennessee

5:30 p.m.-7:00 p.m.

H-Marquette

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.

MCC-102 E

**Section on Statistical Consulting Business Meeting** 

Chair(s): Susan Devlin, The Artemis Group

5:30 p.m.-7:00 p.m.

H-Imperial Suite

**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.

H-Director's Row 3

**Committee of Representatives to the AAAS** 

Chair(s): Michael P. Cohen, Bureau of Transportation Statistics

5:30 p.m.-7:00 p.m.

MCC-206 A **Section on Risk Analysis Business Meeting** 

Chair(s): David Banks, Duke University

5:30 p.m.-7:00 p.m.

H-Director's Row 2

**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.

MCC-206 B

**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.

**HY-Mirage Room** 

MCC-102 C

**Insightful Corporation Reception** 

Organizer(s): Kim Kelly, Insightful Corp.

6:00 p.m.-7:30 p.m. **ASA Task Force on Accreditation** 

Chair(s): Mary Batcher, Ernst & Young LLP

MCC-L100 G 6:00 p.m.-8:00 p.m.

**Korean Statisticians in America Meeting** 

Organizer(s): Sin-Ho Jung, Duke University

MCC-L100 E 6:00 p.m.-8:00 p.m.

**Gay and Lesbian Statisticians Caucus Meeting** 

Organizer(s): Ralph Bradley, Bureau of Labor Statistics

MCC-L100 B

6:00 p.m.–9:00 p.m.

Amgen Inc. Reception (closed – by invitation only)

Organizer(s): Pam Pearson, Amgen Inc.

MCC-207 AB 6:15 p.m.-7:15 p.m.

**President's Invited Speaker Reception** (by invitation only)

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

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 MCC-L100 F

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 MCC-L100 J

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

Invited Sessions 8:30 a.m.-10:20 a.m.

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

**9:20 a.m.** A Collaborator and Client's Guide to Solving Complex

Problems with Data—◆ Arnold Goodman, UCI Center for

Statistical Consulting

10:05 a.m. Floor Discussion

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

77 MCC-200 H

☆ Publishing in Statistics Education Journals: Views from the Editors—Invited

International Association for Statistical Education, Section on Statistical Education

Organizer(s): Carol J. Blumberg, Winona State University

Chair(s): E. Jacquelin Dietz, Meredith College

**8:35 a.m.** The Journal *Teaching Statistics*—♦ Neville Davies, RSS

Centre for Statistical Education

**8:50 a.m.** The Journal of Statistics Education: an International

Journal on the Teaching and Learning of Statistics—

→ W. Robert Stephenson, Iowa State University

**9:05 a.m.** Promoting Research and Research Reporting in

Statistics Education: the SERJ Experience—

Flavia Jolliffe, University of Kent; Iddo Gal, University of

Haifa; Carol J. Blumberg, Winona State University

**9:20 a.m.** Disc: Gilberte Schuyten, University of Gent

**9:40 a.m.** Floor Discussion

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

**9:00 a.m.** Distribution of Sampling, Nonresponse, Reporting, and

Model Errors in Small-domain Estimators from the Current Employment Statistics Program—◆ John L. Eltinge, Bureau of Labor Statistics; Julie B. Gershunskaya, Bureau of Labor Statistics; Larry L. Huff, Bureau of Labor

Statistics

**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

#### **79** MCC-200 G

#### ☆ Direct and Indirect Effects—Invited

Section on Statistics in Epidemiology, ENAR, WNAR. **Biometrics Section** 

Organizer(s): Marshall M. Joffe, University of Pennsylvania Chair(s): Marshall M. Joffe, University of Pennsylvania

8:35 a.m. California, Los Angeles

9:00 a.m. Estimation of Treatment Effects Adjusted for Posttreatment Confounding—◆ Arvid Sjölander, Karolinska Institutet; Juni Palmgren, Karolinska Institutet

9:25 a.m. Recent Advances in Separation of Direct and Indirect **Effects**—

◆ James M. Robins, Harvard University

9:50 a.m. Disc: Donald B. Rubin, Harvard University

10:10 a.m. Floor Discussion

#### MCC-103 B 80

#### \* Causal Inference with Problematic Control Groups— Invited

Section on Health Policy Statistics, Business and **Economics Statistics Section. WNAR** 

Organizer(s): Sue M. Marcus, Mount Sinai School of Medicine Chair(s): Justine Shults, University of Pennsylvania

8:35 a.m. Matching with Multiple Control Groups and Adjusting for **Differences between the Groups** ← Elizabeth A. Stuart, Mathematica Policy Research, Inc.; Donald B. Rubin, Harvard University

When a Placebo Group Is Unethical: a Propensity Score 9:00 a.m. **Approach** → Sue M. Marcus, Mount Sinai School of

Quantifying Placebo Effect in Discontinuation Trials— 9:25 a.m. ◆ Eva Petkova, Columbia University: Thaddeus Tarpey, Wright State University

Disc: Joseph L. Gastwirth, George Washington University 9:50 a.m. 10:10 a.m. Floor Discussion

#### 81 **MCC-212 AB**

# **New Latent Space Models for Social Science—Invited**

**IMS, Social Statistics Section** 

Organizer(s): Adrian E. Raftery, University of Washington Chair(s): Adrian E. Raftery, University of Washington

Recovering Ideological Information from Divisions of 8:35 a.m. the UK House of Commons—→ Kevin Quinn, Harvard University: Arthur Spirling, University of Rochester

Mobility Rules: Latent Space Models for Career 9:05 a.m. Sequences—

◆ Marc A. Scott, New York University 9:35 a.m. Model-based Clustering for Social Networks—◆ Mark S. Handcock, University of Washington; Adrian E. Raftery, University of Washington; Jeremy M. Tantrum, University of Washington

10:05 a.m. Floor Discussion

## MCC-200 ABC

## \* 50th Anniversary of Mixture Research—Invited

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

Organizer(s): Gregory F. Piepel, Battelle, Pacific Northwest Division Chair(s): Scott Kowalski, Minitab Inc.

8:35 a.m. An Overview of 50 Years of Mixture Experiment **Research** → Gregory F. Piepel, Battelle, Pacific Northwest Division

9:00 a.m. Our 10 Most-valued Mixture Experiment Articles— → John Cornell, University of Florida; G. Geoffrey Vining, Virginia Polytechnic Institute and State University

9:25 a.m. Mixture Experiment Research at DuPont—Contributions and Learnings—◆ Ronald D. Snee, Tunnell Consulting

9:50 a.m. Mixture-process Variable Experiments with Control and **Noise Variables**—Heidi Goldfarb, The Dial Corporation: ◆ Douglas Montgomery, Arizona State University

10:15 a.m. Floor Discussion

# MCC-213 AB

## **Using Japanese Lesson Study To Develop Research**based Lessons in Statistics—Invited

**Section on Statistical Education** 

Organizer(s): Beth Chance, California Polytechnic State University Chair(s): Beth Chance, California Polytechnic State University

8:35 a.m. Japanese Lesson Study: an Application to Upper-level Undergraduate Statistics—→ Paul J. Roback, St. Olaf College

9:00 a.m. Lesson Study as a Vehicle for Studying and Improving the Mathematical Preparation of Prospective **Teachers**—**→** Dawn Berk, University of Delaware

The Impact of Japanese Lesson Study on Teachers of 9:25 a.m. **Statistics**—Joan Garfield, University of Minnesota; ◆ Robert delMas, University of Minnesota; Beth Chance, California Polytechnic State University

9:50 a.m. **Lessons on Lesson Study**—

→ Gail Burrill, Michigan State University

10:15 a.m. Floor Discussion

◆ Presenter MCC-Minneapolis Convention Center H-Hilton Minneapolis HY-Hyatt Regency Minneapolis

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MCC-200 DE

#### **※ ☆ Pharmacogenomics—Invited**

Biopharmaceutical Section, ENAR, WNAR, Biometrics

Organizer(s): Xiaohua Zhang, Merck Research Laboratories Chair(s): Xiaohua Zhang, Merck Research Laboratories

8:35 a.m. Haplotype Mapping in Pharmacogenetics—◆ David B. Goldstein, University College London

Using Linkage To Inform Positional Cloning—

◆ Mary 9:00 a.m. Sara McPeek, The University of Chicago

Likelihood-based Analysis for Mixture Models with 9:25 a.m. Applications to Genetic Linkage and Association Studies—

◆ Yongzhao Shao, New York University

9:50 a.m. Genetic Association Studies Using False Discovery **Control with P-value Weighting—**◆ Kathryn Roeder, Carnegie Mellon University

10:15 a.m. Floor Discussion

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MCC-200 F

# ★ ☆ Recent Innovations in Clinical Trial Design—Invited

**ENAR, Biopharmaceutical Section, WNAR, Biometrics** Section

Organizer(s): Peter F. Thall, The University of Texas M. D. Anderson Cancer Center

Chair(s): Peter F. Thall, The University of Texas M. D. Anderson Cancer Center

8:35 a.m. **Designs for Dynamic Treatment Regimes**—◆ Philip W. Lavori, Stanford University; Ree Dawson, Frontier Science

9:05 a.m. Dose-finding Based on Multiple Ordinal Toxicities in Phase I Oncology Trials—→ Benjamin Neby Bekele, The University of Texas M. D. Anderson Cancer Center; Peter F. Thall, The University of Texas M. D. Anderson Cancer Center

# Looking for a good place to eat?

Visit the

**Restaurant Reservations/ Information Desk** 

MCC-Level 1, Registration Lobby

9:35 a.m. Group Sequential Clinical Trials with Multiple Primary

**Endpoints**—

◆ Michael Kosorok, University of Wisconsin,

Madison; Shuangge Ma, University of Washington

10:05 a.m. Floor Discussion

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MCC-211 D

# ★ ☆ Nonstationary and Nonlinear Time-series Models—

**Business and Economics Statistics Section** 

Organizer(s): Sastry G. Pantula, North Carolina State University Chair(s): John F. Monahan, North Carolina State University

8:35 a.m. Model Diagnosis for SETAR Time Series—◆ Hira L. Koul, Michigan State University; Winfried Stute, Michigan State University; Fang Li, University of Giessen

9:00 a.m. On Deformations Reducing Nonstationary Stochastic Processes to Stationarity—◆ Marc G. Genton, Texas A&M University

9:25 a.m. Two Nonlinear Models for Time Series—◆ David A. Dickey, North Carolina State University

Bayesian Analysis of Threshold Autoregressive 9:50 a.m. **Models**—

→ Hamparsum Bozdogan, University of Tennessee; Yongiae Kwon, BBT: Halima Bensmail, University of Tennessee

10:15 a.m. Floor Discussion

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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 Jersev

Chair(s): Cun-Hui Zhang, Rutgers, The State University of New Jersey

Large-p, Small-n Asymptotics for Significance 8:35 a.m. Analysis in High-throughput Screening—Michael Kosorok, University of Wisconsin, Madison; ◆ Shuangge Ma, University of Washington

9:00 a.m. Penalized Estimation for Sparse Gaussian Concentration Graphs with Applications to Inference of Genetic Regulatory Networks—

◆ Hongzhe Li, University of California, Davis; Jiang Gui, University of California, Davis

9:25 a.m. A Two-way, Semilinear Model for Normalization and The University of Iowa; Cun-Hui Zhang, Rutgers, The State University of New Jersey

Disc: Jianging Fan, Princeton University 9:50 a.m.

10:10 a.m. Floor Discussion

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

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

9:55 a.m. Floor Discussion

MCC-200 J 90

#### ★ ☆ 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-topregnancy 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

Indirect Age Adjustment for Pregnancy Rates in Clinical 9:15 a.m.

Food and Drug Administration; Gene Pennello, U.S. Food and

Drug Administration

Historical Control Analysis Using Propensity Scores 9:35 a.m.

> 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

Optimal Design of Pharmacokinetic Studies Described 8:55 a.m. 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 

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

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

Bayesian Regression Models of Nonignorable 8:55 a.m. **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

Bayesian Analysis of the Mixed Models for Repeated 9:35 a.m. 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

Flexible Modeling of the Dependence Structure in 9:55 a.m. 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

#### \* ★ Bavesian 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

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

Bayesian Inference on Mixture-of-experts for Estimation 9:15 a.m. of Stochastic Volatility — 

Gabriel Huerta, The University of New Mexico

**Default Priors for Neural Networks**—◆ Herbert Lee, 9:35 a.m.

University of California, Santa Cruz

Mixtures of Self Modeling Bayesian Regression 9:55 a.m.

**Splines**—◆ Kert Viele, University of Kentucky; Mark

Lancaster, University of Kentucky

10:15 a.m. Floor Discussion

MCC-102 B 94

#### **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; Santhi 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. Detecting Gene-gene Interactions Using Multifactor **Dimensionality Reduction**→ Marylyn Ritchie, Vanderbilt University

Crossvalidated and Bagged Partitioning Estimators 9:55 a.m. with Variable Importance—◆ Annette Molinaro, NCI/Yale University

10:15 a.m. Floor Discussion

MCC-205 A 95

#### \* ★ 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, Yale 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

Research and Quality

Full Sample Assessment of Methods for Adjusting

9:15 a.m.

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; ◆ Nuria Diaz-Tena, Mathematica Policy Research, Inc.; Janet Greenblatt, Agency for Healthcare Research and

Quality

9:35 a.m. Using Data from the National Health Interview Survey (NHIS) To Assess the Effectiveness of Nonresponse

Adjustment 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; Ralph DiGaetano, Westat; Huseyin Goksel, Westat: Hongsheng Hao, Westat

9:15 a.m. Nonparametric Estimation of Genotype-specific, Age-at-

onset Distributions from Censored Kin-cohort Studies—→ Yuanjia Wang, Columbia University

Final Outcome of an Endemic Infection—◆ Regina 9:35 a.m.

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

10:05 a.m. Floor Discussion

96

MCC-102 E

#### \* 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

8:35 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



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# **GENERAL PROGRAM SCHEDULE**

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☆ Themed Session \*\* Applied Session \* Presenter MCC-Minneapolis Convention Center H-Hilton Minneapolis HY-Hyatt Regency Minneapolis

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.

97 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.

98 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

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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

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

99 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

9:20 a.m.

8:50 a.m.

#### MCC-200 I 100

# ★ ☆ 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

A Censored Data Solution for Crossover Studies— 9:05 a.m.

◆ 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—◆ Yangiong Zhang, Merck & Co., Inc.;

William Rosenberger, University of Maryland Baltimore County

Efficiencies and Challenges of Two-stage Randomization 9:50 a.m. **Designs** → Jeffrey Helterbrand, Genentech, Inc.

**10:05 a.m.** Hypothesis Testing for Current Leukemia-free

Survival— 

◆ Leiyan 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 

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

Robust- and Misspecification-resistant Multivariate 9:05 a.m. Regression Models Hybridized with Genetic Algorithms and Information Complexity—◆ Yan Liu, University of Tennessee; Hamparsum Bozdogan, University of Tennessee

Numerical Approximations for Singular Stochastic 9:20 a.m. Control Problems—◆ Kevin Ross, The 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

MCC-211 B 102

#### 🗯 🖈 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

**Bayesian Inference of Hepatoxicity** → Qiangiu Li, The 8:35 a.m. 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— Xuemei 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

A Bayesian Hierarchical Modeling Approach to Glacier 9:35 a.m. **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

On the Accuracy of Bootstrapping Sample Quantiles of 8:50 a.m. 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

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

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

Nonparametric Depth-based Multivariate Outlier 9:50 a.m. **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 Dalla

10:05 a.m. Floor Discussion

#### MCC-102 D 104

#### \* Weighting Issues—Contributed

Section on Survey Research Methods, Social Statistics Section

Chair(s): Allan McCutcheon, UNL-Gallup Research Center

8:35 a.m. Calibration Weights for Estimating Longitudinal Differences in the National Longterm Care Survey— ◆ Stephen Ash, U.S. Census Bureau

8:50 a.m. Multidimensional Control Totals for Poststratified Weights—

◆ Darryl Creel, RTI International; Mansour Fahimi. RTI International

9:05 a.m. Comparison of Two Weighting Schemes for Sampling with Minimal Replacement— Pedro J. Saavedra, ORC Macro International, Inc.

9:20 a.m. Trimming or Not To Account for Sampling Design— → Zhanyun Zhao, Mathematica Policy Research, Inc.; Frank Potter, Mathematica Policy Research, Inc.

9:35 a.m. More Outlier Weight Issues in REACH 2010-◆ Steven Pedlow, NORC at the University of Chicago; Yongyi Wang, NORC at the University of Chicago; Ellen Scheib, NORC at the University of Chicago; Hee-Choon Shin, NORC at the University of Chicago

A New Model-assisted, Chi-square Distance Function 9:50 a.m. for Calibration of Design Weights—Matthew Steams, St. Cloud State University; • Sarjinder Singh, St. Cloud State University

10:05 a.m. Floor Discussion

#### 105 MCC-103 C

## **\* Questionnaire Cognitive Issues II—Contributed**

Section on Survey Research Methods, Social Statistics

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

Cognitive Testing of New Forms for the Current 8:50 a.m. **Employment Statistics Survey** → Kathy Downey, Bureau of Labor Statistics; Karen Goldenberg, Bureau of Labor Statistics; Rick Rosen, Bureau of Labor Statistics; Tony Gomes, Bureau of Labor Statistics; Chris Manning, Bureau of Labor Statistics

9:05 a.m. Model-based Testing of Survey Instruments—Douglas Willson, National Analysts, Inc.; ◆ Ella Zelichonok, National Analysts, Inc.

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

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

Floor Discussion 9:50 a.m.

9:05 a.m.

#### 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

The Use of Multivariate Control Charts To Detect 8:50 a.m. 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 Local Likelihood Disease Clustering: Development and

**Evaluation**—♦ Monir Hossain, University of South Carolina; Andrew Lawson, University of South Carolina

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

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Detection of Spatial Clustering Using Case-control Data 9:35 a.m. in the Presence of Covariates—◆ Ronald Gangnon, University of Wisconsin, Madison

Longitudinal Analysis and Modeling Approach for 9:50 a.m. 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. Therneau, Mayo Clinic: Thomas A. Sellers, H. Lee Moffitt Cancer Center

10:05 a.m. Floor Discussion

107 MCC-208 A

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

Section on Statistics and the Environment, WNAR Chair(s): Philip Dixon, Iowa State University

8:35 a.m. Using Log-ratio-log Plots To Assess the Association between Chemical Species in Environmental Samples—

◆ Michael Ginevan, Exponent, Inc.

Infection Transmission Model for Risk Assessment of 8:50 a.m. Waterborne Pathogens in Drinking Water—

◆ Zhenxu J. Ma, Battelle; Pam J. Rodgers, Battelle; Mark E. Kelley, Battelle; Brenda Boutin, U.S. Environmental Protection Agency

The Applications of Matric t Distribution in Predictive 9:05 a.m. Inference for a Multivariate Linear Model— ◆ B. M. Golam Kibria, Florida International University

9:20 a.m. A Toxicokinetic-based Survival Model for Analysis of Toxicity Data with Changing Stress— ◆ Xia Xu, Iowa State University; Philip Dixon, Iowa State University

On Methods for Handling Biomarker Data below the 9:35 a.m. Analytic Limit of Detection—→ Stephen Looney, Louisiana State University; Joseph L. Hagan, Louisiana State University

9:50 a.m. A Model for Corn Pollen Dispersion—→ Petruta Caragea, Iowa State University

**10:05 a.m.** 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

#### 108 MCC-102 C

\* Modeling for Nonstandard Systems—Contributed

**Section on Statistical Computing** 

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

8:35 a.m. Agent-based Modeling of Invasive Species— → Weijie Cai, George Mason University; James Gentle, George Mason University; Jeffrey Morisette, NASA Goddard Space Flight Center

8:50 a.m. Methods for Evaluating Spatial Fire Potential **Indicators**—

◆ Jonathan Graham, University of Montana; Patricia L. Andrews, USDA Forest Service

Adaptive GaSP Integration—◆ Karuri Stella, University of 9:05 a.m. Waterloo; William J. Welch, University of British Columbia

9:20 a.m. Functional Data Analysis for the Growth Curve Model: a Closed-form EM Algorithm— Victor Solo, University of Michigan

Floor Discussion 9:35 a.m.

#### 109 MCC-103 E

#### **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

On Yield Modeling in the Semiconductor Industry— 8:35 a.m. ◆ Kevin Anderson, Intel Corporation

Time Series Modeling of Daily Accumulated 8:50 a.m. **Degradation Due to Outdoor Weathering**— → Victor Chan, Western Washington University; William Q. Meeker, Iowa State University

Estimation Error Comparisons of Failure Distribution 9:05 a.m. for Accelerated Degradation Tests—◆ Shuen-Lin Jeng, Tunghai University

Degradation Models and Implied Lifetime 9:20 a.m. **Distributions** → Paul Kvam, Georgia Institute of Technology; Suk Joo Bae, University of Tennessee

**Projecting Hazard Rates for Aging Aircraft**—◆ Peter 9:35 a.m. Hovey, University of Dayton; Alan P. Berens, University of Dayton

A New Compound Fading Model for Wireless 9:50 a.m. **Communication Systems**—◆ Kaisheng Song, Florida State University

10:05 a.m. Advanced Statistical Methods for Assessment of **Probability of Detection**→ Yurong Wang, Iowa State University; William Q. Meeker, Iowa State University

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** → Jianging Fan, Princeton University; Heng Peng, Princeton University; Tao Huang, Yale Universit

**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

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

11:35 a.m. Model Selection and Estimation in Regression with **Grouped Variables**— → Ming Yuan, Georgia Institute of

Technology; Yi Lin, University of Wisconsin, Madison

12:05 p.m. Floor Discussion

MCC-211 C 113

#### \* 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 WorkHarold Beebout, Child and Family Services Agency; → John Czajka, Mathematica Policy Research, Inc.

**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

116 MCC-208 B

#### **Medallion Lecture 2—Invited**

Organizer(s): David Madigan, Rutgers, The State University of New Jersev

Chair(s): Aad van der Vaart, Vrije University

**10:35 a.m.** Dimensionality Reduction: Hypotheses Testing and Estimation in the Case of Composite Functions—

→ Oleg Lepski, Universite de Provence

12:00 p.m. Floor Discussion

MCC-103 C 117 **Statistical Phylogenetics—Invited** 

WNAR, ENAR, Biometrics Section

Organizer(s): Bret Larget, University of Wisconsin, Madison Chair(s): Bret Larget, University of Wisconsin, Madison

10:35 a.m. Prospects and Pitfalls of Whole-genome Phylogeny Based on DNA Sequences—

◆ Laura Salter Kubatko, The University of New Mexico; James Degnan, The University of New Mexico

11:00 a.m. Detection of Extensive Recombination in Whole-genome Alignments of *E. Coli*—◆ Bob Mau, University of Wisconsin, Madison

**11:25 a.m.** Applications of Distances between Phylogenetic Trees—

◆ Susan Holmes, Stanford University

**11:50 a.m.** Disc: Cecile Ane, University of Wisconsin, Madison

**12:05 p.m.** Floor Discussion

118 MCC-208 C

#### **\*** ★ Bayesian Techniques in Functional Genomics— Invited

Section on Bayesian Statistical Science, ENAR. Biopharmaceutical Section, WNAR, Biometrics Section

Organizer(s): Michael Newton, University of Wisconsin, Madison Chair(s): Michael Newton, University of Wisconsin, Madison

**10:35 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

MCC-103 B 119

## **\* Bayes and Empirical Bayes Approaches for Large**scale Simultaneous Hypothesis Testing—Invited

**ENAR.** Section on Bavesian Statistical Science. **Business and Economics Statistics Section, WNAR, Biometrics Section** 

Organizer(s): Laura H. Gunn, Georgia Southern University Chair(s): Laura H. Gunn, Georgia Southern University

**10:35 a.m.** Incorporating Biological Information in Hierarchical Modeling of Many Genetic Disease Markers and Safety **Data in Drug Studies** → Donald A. Berry, The University of Texas M. D. Anderson Cancer Center

**11:10 a.m.** Local False-discovery Rates—◆ Bradley Efron, Stanford University

**11:45 a.m.** Disc: Chiara Sabatti, University of California, Los Angeles

12:10 p.m. Floor Discussion

120 MCC-102 C

#### **\* Importance of 'P-values' in the Drug Approval Process—Pros and Cons—Invited**

Biopharmaceutical Section, Section on Statistical **Education, WNAR** 

Organizer(s): Ramachandran Suresh, Schering-Plough Chair(s): Ramachandran Suresh, Schering-Plough

**10:35 a.m.** What Would Fisher or Neyman Say?—♦ David Salsburg. Statistical Consultant

11:00 a.m. Assess the Strength of Statistical Evidence, Not the P-value—

→ Jeffrey D. Blume, Brown University

**11:25 a.m.** Can We Do More Than P-values in Drug Evaluation?— ◆ Lee-Jen Wei, Harvard University

**11:50 a.m.** Disc: Robert O'Neill, U.S. Food and Drug Administration

**12:10 p.m.** Floor Discussion

#### 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

# American Statistical Association Mugs, hats, ASA apparel, children's shirts, JSM shirts, and more! **LOCATED IN THE MAIN REGISTRATION AREA OF THE** MINNEAPOLIS CONVENTION CENTER

Invited Panels 10:30 a.m.-12:20 p.m.

#### 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

Topic Contributed Sessions 10:30 a.m.-12:20 p.m.

#### 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

10:55 a.m. Do Antidepressants Cause Suicide in Children? A

**Bayesian Metaanalysis**—

◆ Eloise Kaizar, Carnegie Mellon University; Joel Greenhouse, Carnegie Mellon University; Howard Seltman, Carnegie Mellon 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

see page 21 for hours of operation

11:55 a.m. Optimal Bayesian Design for Patient Selection in a Clinical Trial—→ Manuela Buzoianu, Carnegie Mellon University; Joseph B. Kadane, Carnegie Mellon University

12:15 p.m. Floor Discussion

#### MCC-102 B 124

## \* 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
- 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

#### MCC-103 A 125

#### **\* 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

- **11:35 a.m.** Nonparametric Approaches to Response Surface Methodology— ◆ Stephanie Pickle, 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

#### MCC-200 G **126**

#### **\* 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** → Patrick A. Bobbitt, Bureau of Labor Statistics; Moon J. Cho, Bureau of Labor Statistics; Robert M. Eddy, Bureau of Labor Statistics
- **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
- 11:35 a.m. Comparison between Chained CPI-U and Regular CPI-U: All-U.S. Indices at Lower Item-aggregate Levels (2000–2003)—→ Owen Shoemaker, Bureau of Labor

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

12:15 p.m. Floor Discussion

#### **MCC-209 AB** 127

#### **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 Du, 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

MCC-103 E

#### **Degradation Modeling, Analysis, and Test Planning— Topic Contributed**

Section on Physical and Engineering Sciences. **Section on Quality and Productivity** 

Organizer(s): Angela Dean, The Ohio State University Chair(s): Janet P. Buckingham, Southwest Research Institute

**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 Willemain, Rensselaer Polytechnic Institute; Pasquale Sullo, Rensselaer Polytechnic Institute

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

MCC-200 J

## \* Spectral-based Methods of Data Analysis— **Topic Contributed**

Section on Statisticians in Defense and National Security

Organizer(s): Jeffrey L. Solka, Naval Surface Warfare Center, Dahlgren Division

Chair(s): John Rigsby, Naval Surface Warfare Center, Dahlgren Division

**10:35 a.m.** Recursive Bipartite Spectral Clustering for Document Categorization—

◆ Jeffrey L. Solka, Naval Surface Warfare Center, Dahlgren Division; Avory C. Bryant, Naval Surface

Warfare Center, Dahlgren Division; Edward J. Wegman, George Mason University

**10:55 a.m.** Deriving Meaningful Biological Structure from Spectral **Embedding and Clustering**—◆ Brandon Higgs, George Mason University; Jeffrey L. Solka, Naval Surface Warfare Center, Dahlgren Division; Jennifer Weller, George Mason University

**11:15 a.m.** Communication Graphs and Text Analysis of Email— ◆ Elizabeth Leeds, Naval Surface Warfare Center, Dahlgren Division; David Marchette, Naval Surface Warfare Center. Dahlaren Division

11:35 a.m. Modeling and Event Identification Based on Spectraltemporal Data—

◆ Monica Reising, Iowa State University; Stephen Vardeman, Iowa State University; Max Morris, Iowa State University; Shawn Higbee, Air Force Research Laboratory/SNH

**11:55 a.m.** Disc: Patricia Carter, Naval Surface Warfare Center, Dahlgren Division

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

MCC-208 D 130

## **\*** ★ Bayesian Methods and MCMC in Industry and **Engineering—Topic Contributed**

Section on Bayesian Statistical Science, Section on **Survey Research Methods** 

Organizer(s): Patrick J. Wolfe, Harvard University; Keying Ye, Virginia Polytechnic Institute and State University

Chair(s): Keying Ye, Virginia Polytechnic Institute and State University

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 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

#### MCC-102 D 131

# **\*** ★ 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
- **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

#### MCC-201 AB 132

## **\* 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 Valerie Testa, U.S. Internal Revenue Service; Maureen Kahr, U.S. Internal Revenue Service; Michael Strudler, U.S. Internal Revenue Service
- **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 Altounian, 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

Topic Contributed Panels 10:30 a.m.-12:20 p.m.

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

Regular Contributed Sessions 10:30 a.m.-12:20 p.m.

134

MCC-102 E

#### ☆ Nucleotides, Genes, and Chromosomes—Contributed **Biometrics Section. WNAR**

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 Twodimensional 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 Jersev
- 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

MCC-208 A 135

#### **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 Kasturiranta, 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 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 Closedpopulation, 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

**12:05 p.m.** Estimating Model Complexity for Bayesian Networks— ◆ Avraham Salzman, University of Rochester; Anthony Almudevar, University of Rochester

**MCC-213 AB** 137

## **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-todate—

◆ 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; Nasratun Naveem, Southern Methodist University; William R. Schucany, Southern Methodist University

#### 138 MCC-102 A

#### **\* 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—◆ Yongming 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 MCC-211 A

# **Applications in Business and Economics I—Contributed**

**Business and Economics Statistics Section** Chair(s): Wanli 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 Ladyzhets, 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

- **11:50 a.m.** Applying Smoothing Spine and EM Algorithm to Airline Performance Modeling—◆ Yufeng Tu, University of Maryland; Michael Ball, University of Maryland; Wolfgang Jank, University of Maryland
- **12:05 p.m.** Optimal Prediction under Linex Loss: a Monte Carlo Beirut

#### 140 MCC-205 A

#### **\*\* 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

#### **MCC-212 AB** 141

#### **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— → Henghsiu 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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- **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 Dunsmuir, 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
- 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 Anaeles
- 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

#### MCC-102 F 144

## **Innovative Approaches to Longitudinal and Survival Data Analysis—Contributed**

Section on Statistics in Epidemiology, WNAR Chair(s): Maya Sternberg, U.S. Centers for Disease Control and Prevention

- **10:35 a.m.** Modeling Correlated Longitudinal Processes in Aging with Some Processes Partially Observed—◆ Qilu Yu, University of California, Davis; Laurel A. Beckett, University of California, Davis: David A. Bennett, Rush Alzheimer's Disease Center: Robert S. Wilson, Rush Alzheimer's Disease Center
- 10:50 a.m. A Nonparametric Agreement Measure for Discrete Survival Outcomes— 

  ◆ Ying Guo, Emory University; Amita K. Manatunga, Emory University
- **11:05 a.m.** Use of the Local Knox Statistic for the Prospective Monitoring of Disease Occurrences in Space and Time—

  → J. Brooke Marshall, Virginia Polytechnic Institute and State University; Dan Spitzner, Virginia Polytechnic Institute and State University; William H. Woodall, Virginia Polytechnic Institute and State University
- 11:20 a.m. Case-cohort Designs and Analysis for Clustered Failure Time Data—◆ Shou-En Lu, University of Medicine and Dentistry of New Jersey; Joanna H. Shih, National Cancer Institute
- 11:35 a.m. A Comparison of Maximum Likelihood and GEE Estimators of Marginal Pairwise Associations in a Multiple Source Setting—

  ◆ Liam O'Brien, Colby College; Garrett M. Fitzmaurice, Harvard School of Public Health; Nicholas J. Horton, Smith College

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

#### 145 MCC-202 AB

#### **\*\* 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; Shiying 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
- **12:05 p.m.** The Consequences of Nonrandom Sampling for Confidence Intervals—◆ Michael Mosier, Washburn University

#### 146 MCC-205 B

#### **\*\* 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

Contributed Posters 10:30 a.m.-12:20 p.m.

# 147 MCC-Level Two Lobby B

#### **Contributed Poster Session 2—Contributed**

General Methodology, Section on Statistical Education, Section on Statistics in Sports, Section on Teaching Statistics in the Health Sciences, Section on Health Policy Statistics, Section on Survey Research Methods, Section on Statistics in Epidemiology, Social Statistics Section

Organizer(s): Ying Kuen Cheung, Columbia University Chair(s): Ying Kuen Cheung, Columbia University

#### General

- Applying Pareto's Law to Statistics: a General Investigation—
   ◆ Patrick Bartshe, Arizona State University
- O2 Demonstration of Multivariate Analysis Techniques Using Dentistry Application Information and Their National Board Scores—◆ Derek Blankenship, University of Oklahoma Health Sciences Center; Barbara Neas, University of Oklahoma Health Sciences Center

#### **Health Policy, Public Health**

- 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 Raczynski, 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

- The Construction of Confidence Intervals for Extreme **Percentiles** → Margaret Carroll, National Center for Health Statistics
- Sampling Excluding Units in Species Diversity Study— 07 ◆ Kyoungah See, Miami University; A. John Bailer, Miami University; Tom Crist, Miami University
- 80 An Empirical Comparison of Multivariate Sample Allocation Methods—Kimberly Henry, U.S. Internal Revenue Service; ◆ Yahia Ahmed, U.S. Internal Revenue Service
- 09 Use of a Web-based Sample Replacement Software Application for Data Collectors in the Field— Andrey Vinokurov, ORC Macro International, Inc.; Daniel Geller, ORC Macro International, Inc.; Pedro J. Saavedra, ORC Macro International, Inc.; Tamara Martin, U.S. Department of State
- 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

- Estimating and Testing Parameters in the Presence of Measurement Error: a Comparison of Approaches—◆ Todd Bodner, Portland State University
- 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

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

- 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
- Assessment of Introductory Statistics and Statistics 18 **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 Orris, Butler University; Bruce Bowerman, Miami University of Ohio
- 20 Educating the States: a Multivariate Statistical Analysis of Education—→ Sara Blight, University of Arizona; Nick Imholte, 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.

#### 148

# **MCC-206 AB**

#### **Statistics in Sports Section Speaker Luncheon (fee** event)—Luncheons

**Section on Statistics in Sports** 

Organizer(s): James J. Cochran, Louisiana Tech University

ML00 Baseball's Best Batters: a Comparison of Models— → Michael J. Schell, The University of North Carolina at Chapel Hill Roundtable Luncheons 12:30 p.m.-1:50 p.m.

#### 149

#### MCC-Ballroom B

#### **Biopharmaceutical Section Roundtable Luncheons** (fee event)—Luncheons

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

- ML01 Issues in the Use and Interpretation of Subgroup Analyses in Clinical Trials — Cristiana Gassmann-Mayer, Johnson & Johnson
- Data Mining Clinical Trial Data: Dredging or Innovative ML02 **Exploration?** Mani Lakshminarayanan, Pfizer, Inc.; Jose Alvir,
- Sample Size Reestimation and Other Innovative Adaptive ML03 **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
- Metaanalyses: Past, Present, and Future—→ Charles Anello, ML07 U.S. Food and Drug Administration

#### 150

#### MCC-Ballroom B

#### **Section on Bayesian Statistical Science Roundtable Luncheon (fee event)—Luncheons**

Organizer(s): Steven N. MacEachern, The Ohio State University

Does the ASA Need Standards for Disclosure of Conflict of ML08 Interest in Statistical Talks and Articles?—

◆ Giovanni Parmigiani, Johns Hopkins University

#### 151

#### MCC-Ballroom B

#### **Section on Government Statistics Roundtable Luncheon** (fee event)—Luncheons

Organizer(s): Michael P. Cohen, Bureau of Transportation Statistics

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

#### 152

## **MCC-Ballroom B**

## **Section on Health Policy Statistics Roundtable Luncheons (fee event)—Luncheons**

Organizer(s): Chris Schmid, Tufts New England Medical Center

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

- **ML11** Clinical Risk Adjustment of Patient Outcomes When Sample Presbyterian; Martin Kleinbart, Hoaq 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
- Cephalon, Inc.

#### 153

#### **MCC-Ballroom B**

#### **Section on Physical and Engineering Sciences Roundtable Luncheon (fee event)—Luncheons**

Organizer(s): Thomas Loughin, Kansas State University

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

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#### MCC-Ballroom B

## **Section on Quality and Productivity Roundtable Luncheons (fee event)—Luncheons**

Organizer(s): Martha Gardner, GE Global Research

- **ML15** Successful Strategies for Screening D0Es—◆ Shari Kraber, Stat-Fase, Inc.
- ML16 Statistics in Nanotechnology— → J. C. Lu, Georgia Institute of Technology

#### 155

#### MCC-Ballroom B

#### **Section on Statistical Graphics Roundtable Luncheon** (fee event)—Luncheons

Organizer(s): Juergen Symanzik, Utah State University

ML17 Statistical Visualization for Trees and Forests—

◆ Michael Minnotte, Utah State University

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## MCC-Ballroom B

## **Section on Statistics and the Environment Roundtable Luncheon (fee event)—Luncheons**

Organizer(s): Estelle Russek-Cohen, U.S. Food and Drug Administration

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

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## MCC-Ballroom B

## **Section on Statistics in Epidemiology Roundtable Luncheon (fee event)—Luncheons**

Organizer(s): Lisa Sullivan, Boston 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—◆ Rajenda 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

#### **MCC-Ballroom B** 161

#### **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

'How-squared' to Implement Writing Assignments in a ML26 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

Special Presentation 2:00 p.m.-3:50 p.m.

#### 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

Ohio Election Analysis—

◆ Mary Batcher, Ernst & 2:25 p.m. 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 Nottingham; → Mark Lindeman, Bard College

Searching for Errors in Exit Polls: Interviewer-3:25 p.m. respondent Interactions—◆ Kathleen Frankovic,

**CBS News** 

**3:45 p.m.** Floor Discussion

Invited Sessions 2:00 p.m.-3:50 p.m.

#### 165 MCC-200 F

#### **Medallion Lecture 3—Invited**

**IMS** 

Organizer(s): David Madigan, Rutgers, The State University of New Jersev

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

Asymptotic Admissibility of Parametric Density 2:35 p.m. **Estimators**— → John A. Hartigan, Yale University; Mihaela

Aslan, Yale University

**High-dimensional Predictive Estimation**—◆ Edward I. 3:05 p.m. George, University of Pennsylvania; Lawrence Brown,

University of Pennsylvania; Feng Liang, Duke University;

Xinyi Xu, University of Pennsylvania

Floor Discussion 3:35 p.m.

MCC-102 A 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

Iterated Confirmatory Factor Analysis for Pollution 2:05 p.m. **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

Application of Multiway Factor Analysis to Airborne 2:55 p.m.

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

MCC-102 B 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.

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

Identifying Quantitative Structure-activity Relationships 2:55 p.m.

**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

2:30 p.m.

MCC-200 G 169

#### **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.

Minnesota

2:30 p.m. Enabling Statistics Tools and Techniques for Embedded Networked Sensing—→ William Kaiser,

University of California, Los Angeles

Mapping Social Landscapes—

◆ Judith Donath, 2:55 p.m.

Massachusetts Institute of Technology

Red State, Blue State: Data Maps in the Media— 3:20 p.m.

◆ Matthew Ericson, The New York Times

Floor Discussion 3:45 p.m.

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 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

Nonparametric Order-restricted Inference for Spatial 2:55 p.m.

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

MCC-211 D

171 \* Streaming Graphics—Invited

Section on Statistical Graphics

Organizer(s): Lee Wilkinson, Northwestern University

Chair(s): Lee Wilkinson, Northwestern University

Streaming Graphics for Real-time Network Monitoring— 2:05 p.m.

> Lorraine Denby, Avaya Labs Research; ◆ James Landwehr, Avaya Labs Research; Akshay Adhikari, Avaya Labs Research;

Jean Meloche, Avava Labs Research

Change Detection and Visualization in Datastreams— 2:35 p.m.

◆ Stephen G. Eick, University of Illinois, Chicago; Robert

Grossman, University of Illinois, Chicago

Interactive Visualization of Streaming Data—→ Andrew 3:05 p.m.

A. Norton, SPSS Inc

Floor Discussion 3:35 p.m.

MCC-205 C 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

Hierarchical Functional Data: Semiparametric and 2:05 p.m.

Nonparametric Methods for Modeling Functional Dependence with Application to Colonic Crypt Signaling—◆ Raymond J. Carroll, Texas A&M University

Statistical Models for Complex Datasets—→ Grace

2:30 p.m. Wahba, University of Wisconsin, Madison

Extensions of Penalized Spline Regression for Natural 2:55 p.m.

**Resource Monitoring Applications**—

◆ Jay Breidt,

Colorado State University

Disc: Jean D. Opsomer, Iowa State University 3:20 p.m.

3:40 p.m. Floor Discussion

173 MCC-102 D

\* Secure Statistical Analysis of Distributed Databases—

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

Cincinnati/NISS

Privacy-preserving Statistical Analyses of Distributed 2:35 p.m.

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

MCC-103 C 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

Interview Format and Sampling Strategies in Human 2:30 p.m.

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

Organization

Floor Discussion 3:40 p.m.

175 MCC-102 E

★ ☆ 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

Simple Models for Customer-base Analysis— 2:05 p.m.

◆ Bruce Hardie, London Business School; Peter Fader,

University of Pennsylvania

RFM and CLV: Using Iso-value Curves for Customer-2:25 p.m.

> base Analysis—
>
> ◆ Peter Fader, University of Pennsylvania; Bruce Hardie, London Business School; Ka Lok Lee, Catalina

Marketing

A Hidden Markov Model of Customer Relationship 2:45 p.m.

> **Dynamics**—♦ Oded Netzer, Columbia University; James Lattin, Stanford University; V. Srinivasan, Stanford University

A Multicategory View of Customer Relationships— 3:05 p.m.

> Pradeep Chintagunta, The University of Chicago; Xiaojing Dong, Northwestern University: ◆ Puneet Manchanda, The

University of Chicago

3:25 p.m.

of Enterprise Workflow—◆ Ping Zhang, Avaya Labs Research; Patrick H. Tendick, Avaya Labs Research

Floor Discussion 3:45 p.m.

3:45 p.m. Floor Discussion

Texas at Austin

Topic Contributed Sessions 2:00 p.m.-3:50 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

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#### 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

Some Issues in Global Drug Development: from 2:25 p.m. **Bridging to Multinational Trials**→ Yoichi li, Pfizer

Japan, Inc.

An Analysis for Multiple Parameter Estimation 2:45 p.m.

> **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

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

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

A Response Surface Method for Simulation-based 2:45 p.m. Modeling and Optimization in Business Consulting—

→ Zhiguang Qian, Georgia Institute of Technology

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3:05 p.m.

#### MCC-202 AB

#### **\*** ★ Savage Award 2004 Winners—Topic Contributed

**Section on Bavesian 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

Bayesian Inference for Matched Case-control Studies-2:25 p.m.

◆ Samiran Sinha, Texas A&M University

Bayesian Methods in Bidding Processes— 2:45 p.m.

◆ 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

Floor Discussion 3:45 p.m.

#### 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

Toys, Tales, and a Journalist's View of Statistics— 2:25 p.m.

◆ Lewis Cope, Minneapolis Star & Tribune (Retired)

What Can 'CSI' Teach Us about Statistical Literacy?— 2:45 p.m.

→ Jane Miller, Rutgers, The State University of New Jersey

Statistical Literacy Online at Capella University— 3:05 p.m.

→ Marc Isaacson, Augsburg College

A Grammar-parsing Program for Descriptions and 3:25 p.m.

Comparisons of Percentages and Rates-

◆ Tom Burnham, Cognitive Consulting; Milo Schield,

Augsburg College

Floor Discussion 3:45 p.m.

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

Quality and the Product Development Cycle—

◆ Eugene 2:25 p.m.

Burns, Bureau of Transportation Statistics

2:45 p.m. Quality Audits at Statistics Sweden—

◆ GunLög

Eiderbrant-Nilsson, Statistics Sweden

Disc: Nancy Kirkendall, Energy Information Administration 3:05 p.m. Disc: Cynthia Z. F. Clark, Office for National Statistics

3:45 p.m. Floor Discussion

3:25 p.m.

MCC-205 B 181

#### ★ ☆ 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

KFC: a Kalman Filtering Approach To Monitor 3:25 p.m.

> Massive Contingency Tables—
>
> ◆ Deepak Agarwal, AT&T Labs-Research; Colin Goodall, AT&T Labs-Research; William

DuMouchel, Lincoln Technologies

Floor Discussion 3:45 p.m.

MCC-103 E 182

#### **Monitoring Data Quality in a Federal Statistical Agency: NCES—Topic Contributed**

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

Reports from NCES on the Use of Incentives in Data 2:45 p.m. Collection and the Timeliness of Data Collection and

**Reporting**—→ Pia Peltola, Education Statistics Services

Institute

Monitoring Data Quality at a Federal Agency— 3:05 p.m.

◆ Deven Carlson, American Institutes for Research

Quality Profiles: a Tool To Monitor the Quality of Survey 3:25 p.m.

> Programs—
>
> ◆ Sameena M. Salvucci, Mathematica Policy Research, Inc.; Nancy Clusen, Mathematica Policy Research, Inc.; Tiffany Waits, Mathematica Policy Research, Inc.; Marilyn

Seastrom, National Center for Education Statistics

Floor Discussion 3:45 p.m.

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

Mining Huge-p, Small-n Data and New Image 2:05 p.m.

> **Registration Procedures** → Xiaofeng Wang, Case Western Reserve University; Jiayang Sun, Case Western

Reserve University; Kath Bogie, The Cleveland FES Center

Magnitude and Phase Modeling for fMRI Brain 2:25 p.m. **Activation**—◆ Daniel B. Rowe, Medical College of Wisconsin

Block Kriging in SPECT/PET Brain Images: Defining 2:45 p.m.

**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

Making Group Inferences with Functional Magnetic 3:05 p.m.

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

Floor Discussion 3:45 a.m.

Results of Coverage Followup in the 2004 Census 2:45 p.m.

Test—◆ Elizabeth Krejsa, U.S. Census Bureau; Dave

Sheppard, U.S. Census Bureau

Design of the Census 2004 Coverage Research 3:05 p.m.

Followup Questionnaire—

◆ Leann Karl, U.S. Census

Bureau; Ashley Landreth, U.S. Census Bureau

Unduplication of Persons and Housing Units in the 2004 3:25 p.m.

Census Test—◆ Robin Pennington, U.S. Census Bureau

Floor Discussion 3:45 p.m.

#### 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

Functional Sensitivity: Definition, Theory, and Evaluation 2:05 p.m.

**Method**—◆ Patrick Meyers, Abbott Laboratories; Suha Sari,

Abbott Laboratories

Multiple Assay Methods Comparison—

◆ Abha Sharma, 2:25 p.m.

Roche

Statistical Methods in Genetic Risk Assessment for 2:45 p.m.

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

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

3:45 p.m. Floor Discussion

#### MCC-103 B 185

#### **\* 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

Within Household Coverage Improvement in the 2004 2:05 p.m.

National Census Test—→ Kyra Linse, U.S. Census Bureau;

Dave Sheppard, U.S. Census Bureau

Operational Assessment of the 2004 Coverage 2:25 p.m.

> Research Followup—Lisa Knight, U.S. Census Bureau; Jeff Behler, U.S. Census Bureau; ◆ Frank Vitrano, U.S. Census

Bureau

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

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#### 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.

# 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

# **GENERAL PROGRAM** SCHEDULE

MCC-Minneapolis Convention Center H-Hilton Minneapolis HY-Hyatt Regency Minneapolis

Variance Estimation for GEE Estimator—

◆ Shenghai 2:50 p.m. Zhang, Centre for Infectious Disease Prevention and Control

Stratification on Baseline Measure: the Variance 3:05 p.m. **Effect**—♦ Misook Park, Virginia Commonwealth University;

Robert E. Johnson, Virginia Commonwealth University

3:20 p.m. A Cost-effective Design for Longitudinal or Cluster Studies—→ Yajun Mei, Fred Hutchinson Cancer Research Center: Sarah Holte, Fred Hutchinson Cancer Research Center

3:35 p.m. Comparing Confidence Interval Methods Based on the Horvitz-Thompson Estimator under Adaptive Cluster **Sampling** → Timothy Perez, Monsanto; Jeffrey S. Pontius, Kansas State University

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 Bowling Green State University; Jason Hsu, The Ohio State University; Tao Wang, The Ohio State University

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

A New Efficient Statistical Method for Detecting 2:35 p.m. **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

Use of Hadamard Matrices in Identifying Differentially 3:05 p.m. **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.

#### 189 MCC-208 D

#### **\*** ★ Survival Analysis and Risk Assessment—Contributed Biometrics Section, Biopharmaceutical Section, WNAR

Chair(s): Alex Tsodikov, University of California, Davis

2:05 p.m. Estimating and Testing Random Coefficients in a Proportional Hazard Frailty Model—◆ Shibao Feng,

Georgetown University Medical Center; Robert A. Wolfe,

University of Michigan

2:20 p.m. Marginal Analysis of Clustered Survival Data When

> University; Guosheng Yin, The University of Texas M. D. Anderson Cancer Center; Yu Shen, The University of Texas

M. D. Anderson Cancer Center

2:35 p.m. Estimation of Center Effects in Survival Analysis—

→ Douglas E. Schaubel, University of Michigan

2:50 p.m. 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

3:05 p.m. 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

3:20 p.m. Multiplicity-adjusted Inferences in Risk Assessment:

Benchmark Analysis with Quantal Response Data—

◆ Daniela Nitcheva, South Carolina Cancer Center; Walter W. Piegorsch, University of South Carolina; Webster West, University of South Carolina; Ralph Kodell, National Center for

Toxicological Research

3:35 p.m. Confidence Regions for Jointly Measuring Benefit and

> Risk—◆ Michele L. Shaffer, Pennsylvania State College of Medicine; Kristi L. Watterberg, The University of New Mexico

#### 190 MCC-200 I

# \* Coarsened, Mismeasured, or Missing Data—Contributed

General Methodology, Social Statistics Section, Section on Survey Research Methods, ENAR, Section on Statistics in Epidemiology, Section on Statistical **Education, Biometrics Section** 

Chair(s): Dawei Xie, University of Pennsylvania

Parameter Estimation in the Presence of Coarsened 2:05 p.m.

> Data—◆ Sergey S. Tarima, University of Kentucky; Richard Kryscio, University of Kentucky; Yuriy Dmitriev, Tomsk State

University

Extension of Penalized Spline Propensity Prediction 2:20 p.m.

**Method**—

◆ Guangyu Zhang, University of Michigan;

Roderick J. Little, University of Michigan

Robust Model-based Analysis of General Pattern 2:35 p.m.

Missing Data—

◆ Hyonggin An, The University of Iowa;

Roderick J. Little, University of Michigan

Estimation of Missing Values Using Multivariate Normal 2:50 p.m.

**Copula**—→ Rahul Parsa, Drake University; Alain Desgagne,

Drake University

3:05 p.m. Partial Linear Logistic Model with Measurement Error

Using Sufficiency Scores—◆ Lian Liu, Texas A&M

University

Model Misspecification and Goodness-of-fit in Latent 3:20 p.m.

Variable and Structural Equations Models—◆ Brisa

N. Sanchez, Harvard School of Public Health; Louise Ryan,

Harvard University

3:35 p.m. Full Matching with Propensity Scores—◆ Ben B.

Hansen, University of Michigan

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#### \* Statistical Applications—Contributed

**General Methodology** 

Chair(s): Minge Xie, Rutgers, The State University of New Jersey

2:05 p.m. 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

Statistical Methods for Evaluating Clinical Teaching— 2:20 p.m.

→ Jay Mandrekar, Mayo Clinic; Thomas J. Beckman, Mayo

Clinic

The Role of Viral Load Measures in the Cost-2:35 p.m.

effectiveness Analysis of ART—→ Martha Lee,

Georgetown University; Juwon Song, The University of Texas

Health Science Center at Houston

A Comparison Study of Models for the Human Sex 2:50 p.m.

> Ratio—
>
> ◆ Sibabrata Banerjee, New Jersey Institute of Technology; Wonsuk Yoo, New Jersey Institute of Technology

3:05 p.m. 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

3:20 p.m. 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

Floor Discussion 3:35 p.m.

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MCC-211 A

#### \* Issues in Clinical Trials—Contributed

WNAR, Biopharmaceutical Section

Chair(s): Jing Zhao, Merck & Co., Inc.

2:05 p.m. The Construction of Composite Scores in Analgesia Studies—◆ David Bristol, Purdue Pharma LP; Genming Shi, Schering-Plough

2:20 p.m. Analysis of Repeated Measures Analgesic Studies— → Guoyong Jiang, Cephalon, Inc.; Lilliam Kingsbury, Cephalon, Inc.

Propensity Score Comparison of Antibiotic Therapy from 2:35 p.m. **Inpatient Data**—◆ Michael A. O'Connell, Waratah Corp.

Simulation Comparison of SAS Proc Multitest 2:50 p.m. Permutation Adjustment Option for the Analysis of Multiple Measurements in the Two-period Crossover **Design** → Mark Burgert, GlaxoSmithKline

Robust Estimate of Confidence Interval of Treatment 3:05 p.m. **Effect** → Kao-Tai Tsai, Aventis Pharmaceuticals

3:20 p.m. Bootstrap Confidence Intervals for Probability of Better Outcome— → Haitao Gao, Eli Lilly and Company

**Issues in Mega Clinical Trials**—◆ Lu Cui, Aventis 3:35 p.m. Pharmaceuticals

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#### **Classification and Genomics—Contributed**

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

Chair(s): Hui Xie, Boston University

2:05 p.m. 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

Choice of Neighbor Order in Nearest-neighbor 2:20 p.m. Classification and a Comparison with Bagged Nearest**neighbor Methods**—◆ Richard Samworth, Centre for Mathematical Sciences

Multicategory Psi-learning—→ Yufeng Liu, The University 2:35 p.m. of North Carolina at Chapel Hill

Determining the Copy Number States from Array CGH 2:50 p.m. Data—◆ E. Venkatraman, Memorial Sloan-Kettering Cancer Center; Adam Olshen, Memorial Sloan-Kettering Cancer Center

Stochastic Linear Hypotheses for Nonparametric 3:05 p.m. Johns Hopkins University

Discrimination and Clustering Based on Nonparametric 3:20 p.m.

**Hypothesis Testing**—

◆ George von Borries, Kansas State

University; Haiyan Wang, Kansas State University

Floor Discussion 3:35 p.m.

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MCC-102 F

#### \* 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

**2:05 p.m.** 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

A Bayesian Logistic-mixture of Normal Distributions 2:20 p.m. Hierarchical Model for Hospital Mortality—◆ Peter Austin, Institute for Clinical Evaluative Sciences

2:35 p.m. GEE Diagnostics for Marginal Association Models— ◆ John S. Preisser, The University of North Carolina at Chapel Hill

2:50 p.m. Repeated Events Survival Models: the Conditional Frailty University; Suzanna DeBoef, The Pennsylvania State University

3:05 p.m. 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

3:20 p.m. Different from the Start: Profiling Minnesota Kindergarten Students in Six Kindergarten Program **Types**—◆ Theresa J. Gromala, University of Minnesota

3:35 p.m. Floor Discussion

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MCC-200 H

#### Inference, Applied Probability, and Stochastic Models— Contributed

IMS. Section on Statistical Education

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

**2:05 p.m.** A Comparison of Automated Investment Strategies— ◆ Alexander White, American University: Fotios Kokkotos.

American University

The Lifetime of a Random Set—◆ Peter Kiessler. Clemson 2:20 p.m. University

2:35 p.m. Method of Gambling Teams and Waiting Times for Patterns—→ Vladimir Pozdnyakov, University of Connecticut; Joseph Glaz, University of Connecticut; Martin Kulldorff,

☆ Themed Session \*\* Applied Session \* Presenter

MCC-Minneapolis Convention Center H-Hilton Minneapolis HY-Hyatt Regency Minneapolis

Harvard Medical School/Harvard Pilgrim Hospital; Michael Steele, University of Pennsylvania

**2:50 p.m.** Occupation Times for a Class of Nonstationary Markov Chains—→ Zachariah Dietz, Tulane University; Sunder Sethuraman, Iowa State University

**3:05 p.m.** Two Computational Algorithms with Applications in Order Statistics and Nonparametrics—◆ Jesse Frey, The Ohio State University

**3:20 p.m.** Fiducial Generalized Confidence Intervals—◆ Jan Hannig, Colorado State University

**3:35 p.m.** Optimal Controls for Stochastic Networks in Heavy Traffic—♦ Arka Ghosh, The The University of North Carolina at Chapel Hill

196 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

3:20 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 MCC-103 A

## **\* 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 MCC-210 AB

#### 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 Individuallymatched 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

Utilizing Race Data in an Active Public Health 2:50 p.m. Surveillance System—◆ Elizabeth Zell, U.S. Centers for Disease Control and Prevention

Regression with Error in Both Variables: Adjustment via 3:05 p.m. **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

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

◆ Bernard Rosner, Harvard Medical School

199 MCC-211 C

#### **Multivariate Methods—Contributed**

**Section on Statistical Computing** Chair(s): Jing Wang, Louisiana State University

2:05 p.m. Finding Effective Points by Basis Representation **Methodology** → Ray-Bing Chen, National University of Kaohsiung; Weichung Wang, National University of Kaohsiung; Fuhung Tsai, National University of Kaohsiung

2:20 p.m. A Fast Kernel Density Estimation Algorithm for **Independent Component Analysis**—◆ Aiyou Chen, Bell Labs, Lucent Technologies; Peter J. Bickel, University of California, Berkeley

Extreme Multidimensional Scaling—→ Michael W. 2:35 p.m. Trosset, College of William & Mary; Patrick J. F. Groenen, Erasmus University Rotterdam

2:50 p.m. Image Reconstruction: an Information-theoretic **Approach** → Amos Golan, American University; Avinash Bhati, The Urban Institute; Bahattin Buyuksahin, World Bank

Componentwise Iterative Optimization for Large 3:05 p.m. Data—

◆ Yachen Lin, Certegy

New Approaches for Finding the Minimum Volume 3:20 p.m. Howington, Coastal Carolina University

3:35 p.m. Enhanced Probability Plots for Testing for Multivariate **Normality**—♦ Jeff Szychowski, The University of Alabama; Michael Conerly, The University of Alabama; Bruce Barrett, The University of Alabama

Contributed Posters 2:00 p.m.-3:50 p.m.

#### **MCC-Level Two Lobby B** 200

#### **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

- Group Testing Model Estimation and Inference— Christopher R. Bilder, University of Nebraska
- Latent Class Models for Medical Studies with Replicate 02 Observations: Alternative Latent Structures for Observer Agreement and Diagnostic Accuracy—

  ◆ Andrew Baughman, U.S. Centers for Disease Control and Prevention; Michael Haber, Emory University; Huiman 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-vi Lin, Louisiana State University
- 05 Two-part Models for Longitudinal Data: Comparing GEE and Random-effects Approaches—Leann Myers, Tulane University; ◆ Yeonioo 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.
- 80 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**

Outliers and Time Series Data Mining—Lon-Mu Liu, University of Illinois, Chicago; William J. Lattyak, Scientific Computing Associates Corp.; John L. Harris, Progress Energy, Inc.

#### **Clinical Trials, Drug Discovery**

- 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

- Improved Methods for Establishing Noninferiority in Clinical 11 **Trials**—♦ Farid Kianifard, Novartis Pharmaceuticals; Michael Chen, Novartis Pharmaceuticals; Sunil K. Dhar, New Jersey Institute of Technology
- 12 BANOVA for Repeated Measurements of Binary Data: Exact Inference for Parallel Group Design—

  → Dar Shong Hwang, B.R.S.I.; James S. Lee, Sankyo Pharma Development
- 13 Noninferiority Hypothesis with Binary Endpoints—◆ Tie-Hua Ng, U.S. Food and Drug Administration

#### **Environmetrics, Ecology, Agriculture, Wildlife** Management

- Model-based Tests for Evaluation of Water Quality— → Zhengrong Li, Virginia Polytechnic Institute and State University: Eric P. Smith, Virginia Polytechnic Institute and State University
- 15 Nonlinear Stochastic Modeling of Aphid Population Growth— → James Matis, Texas A&M University; Thomas R. Kiffe, Texas A&M University; Tim I. Matis, New Mexico State University
- Expedient Methods in Environmental Indexing—◆ Kobi 16 Abayomi, Columbia University
- 17 On Transformations of Count Data for Tests of Interaction in Factorial and Split-plot Experiments—→ Mark Payton, Oklahoma State University; Scott J. Richter, University of North Carolina, Greensboro

#### **Neuroscience, Brain Imaging**

Bedside Analysis of Cerebral Autoregulation in Very-lowbirth weight Infants—◆ Keith Williams, University of Arkansas for Medical Sciences: C. Heath Gauss, University of Arkansas for Medical Sciences: Jeff Kaiser, University of Arkansas for Medical Sciences

## **Spatial Statistics, Time Series, Spatio-temporal** Modeling

- Compact Output for Quickly Analyzing Seasonal Adjustment **Diagnostics** → Thomas Evans, Bureau of Labor Statistics
- Space-time Models on Spheres and Their Application to Total 20 Column Ozone Levels Mikyoung Jun, The University of Chicago; Michael Stein, The University of Chicago

Invited Sessions 4:00 p.m.-5:50 p.m.

#### 201 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

Invited Sessions 8:00 p.m.-9:15 p.m.

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#### MCC-200 ABC

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

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

The Poisson Paradigm—◆ Louis H. Y. Chen, National 8:05 p.m.

University of Singapore

9:00 p.m. Floor Discussion



# American Statistical Association's

# STUDEN'

# Monday, August 8

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

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