TUESDAY, AUGUST 8

Tours

9:00 a.m.–1:00 p.m. CC-Convention Place

TR06 - Historical Seattle Tour (fee event)

1:00 p.m.–5:00 p.m. CC-Convention Place

TR07 - Glassblowing Tour (fee event)

Committee/Business Meetings & Other Activities

5:15 a.m.—7:00 a.m. Off Property

Gertrude Cox Scholarship Race

7:00 a.m.—8:30 a.m. S-Cedar Room

Section on Statisticians in Defense and National Security Business Meeting

Chair(s): Ron Fricker, Naval Postgraduate School

7:00 a.m.—8:30 a.m. H-Excelsion

Technometrics Editorial Board Meeting (closed)

Chair(s): Randy R. Sitter, Simon Fraser University

7:00 a.m.—8:30 a.m. S-Spruce Room

Business and Economics Statistics Section Executive Committee Meeting (closed)

Chair(s): Paul Shaman, University of Pennsylvania

7:00 a.m.—8:30 a.m. H-Discovery

Section on Quality and Productivity Executive Meeting (closed)

Chair(s): Christine M. Anderson-Cook, Los Alamos National Laboratory

7:00 a.m.–8:30 a.m. CC-302

Committee on Statistics and Disability Annual Meeting (closed)

Chair(s): Joan Turek, U.S. Department of Health and Human Services

7:00 a.m.—8:30 a.m. H-Chatham

Scientific and Public Affairs Advisory Committee Meeting

Chair(s): David Marker, Westat

7:00 a.m.—10:00 p.m. CC-Level 4 South Lobby

Cyber Center

7:00 a.m.—10:00 a.m. S-Metropolitan Ballroom A

Council of Chapters Business Meeting and Breakfast (closed)

Chair(s): Ronald Wasserstein, Washburn University

7:00 a.m.—10:00 a.m. S-Ballard

Section on Physical and Engineering Sciences Executive Committee Meeting (closed)

Chair(s): Robert Wilkinson, Lubrizol

7:00 a.m.–6:00 p.m. CC-507, CC-508

Speaker Work Rooms

7:30 a.m.—9:00 a.m. H-Cayuse

Project on Filming of Distinguished Statisticians (closed)

Organizer(s): Nitis Mukhopadhyay, University of Connecticut

7:30 a.m.—12:00 p.m. S-Aspen Room

Biopharmaceutical Section Executive Committee Meeting (closed)

Chair(s): Stacy Lindborg, Eli Lilly and Company

7:30 a.m.—4:30 p.m. CC-Level 4 South Lobby

JSM Main Registration

ASA Membership/Special Assistance Desk

8:00 a.m.—9:30 a.m. H-Portland

Section on Risk Analysis Executive Committee Meeting (closed)

Chair(s): Susan Sereika, University of Pittsburgh

8:00 a.m.–12:00 p.m. H-Sherman

Committee of Presidents of Statistical Societies Committee Meeting (closed)

Organizer(s): Linda Young, University of Florida

8:00 a.m.–4:00 p.m. S-Admiral

ASA/NCTM Beyond AP Statistics (closed)

Chair(s): Roxy Peck, California Polytechnic State University, San Luis Obispo

8:00 a.m.–6:00 p.m. CC-Exhibit Hall 4B

Career Placement Service

8:00 a.m.–6:00 p.m. CC-Exhibit Hall 4A

Exhibitor Lounge

GENERAL PROGRAM SCHEDULE -

② Themed Session ● Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

8:00 a.m.-6:00 p.m.

CC-209

Amgen Inc. Interview Room (by invitation only)

Organizer(s): Chander Varma, Amgen Inc.

8:30 a.m.-10:00 a.m.

S-Juniper

Section on Statistical Education Executive Committee Meeting (closed)

Chair(s): Christine Franklin, University of Georgia

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

CC-302

Mu Sigma Rho Executive Committee

Organizer(s): Marcia Gumpertz, North Carolina State University

9:00 a.m.–5:00 p.m.

CC-Level 4 South Lobby

ASA Marketplace

9:00 a.m.-5:00 p.m.

CC-Level 1

Citywide Concierge Center

9:00 a.m.-6:00 p.m.

CC-Exhibit Hall 4A

EXPO 2006

ASA Communities Booth #101

10:15 a.m.-12:15 p.m.

H-Cayuse

Introduction to Statistics Focus Group

Organizer(s): Liliana Molina, Pearson Education

10:30 a.m.-1:00 p.m.

S-Willow A

New Chapter Officers Meeting with Council of Chapters Vice Chairs

Chair(s): Ronald Wasserstein, Washburn University

12:00 p.m.-1:30 p.m.

H-Excelsion

JCGS Management Committee Meeting (closed)

Chair(s): Dianne Cook, Iowa State University

12:30 p.m.–2:00 p.m.

H-Blewett Suite

The American Statistician Editorial Board Meeting (closed)

Chair(s): Peter Westfall, Texas Tech University

12:30 p.m.-2:00 p.m.

H-Discovery

ASA Defense and Security Task Force Meeting (closed)

Chair(s): Alyson Wilson, Los Alamos National Laboratory

12:30 p.m.-2:00 p.m.

S-Douglas Room

Open Source Textbook Project Planning Meeting

Organizer(s): Beatrix Jones, Massey University

12:30 p.m.-2:00 p.m.

CC-302

Interface Foundation of North America Board Meeting (closed)

Organizer(s): Tim C. Hesterberg, Insightful Corporation

12:30 p.m.–2:00 p.m.

H-Portland

Deming Lectureship Committee Speaker Luncheon (closed)

Chair(s): Lorraine Denby, Avaya Labs Research

12:30 p.m.–4:30 p.m.

H-Stevens Boardroom & Foyer

ENAR RAB/RECOM Luncheon Meeting (by invitation only)

Organizer(s): Kathy Hoskins, ENAR

2:00 p.m.-3:30 p.m.

S-Everett

Council of Chapters Traveling Course

Chair(s): Delray Schultz, Millersville University

2:00 p.m.-3:30 p.m.

S-Spruce Room

ASA Committee Organization and Management Task Force (closed)

Chair(s): Susan J. Devlin, The Artemis Group LLC

2:30 p.m.–4:00 p.m.

H-Cayuse

JBES Editorial Board Meeting

Chair(s): Torben G. Andersen, Northwestern University

3:40 p.m.–4:00 p.m.

CC-3B

Presentation of 2006 Roger Herriot Award with Reception (open)

Chair(s): Lawrence H.Cox, National Center for Health Statistics

4:00 p.m.-5:00 p.m.

H-Sherman

JASA Reviews Assistant Editors Meeting (closed)

Chair(s): Robert Lund, Clemson University

4:00 p.m.–6:00 p.m.

S-Metropolitan Ballroom A

Council of Chapters Workshop and Reception: New and Not So New Methods of Communications for Chapters Featuring Wiki Pages (closed)

Chair(s): J. Lynn Palmer, M. D. Anderson Cancer Center

4:30 p.m.–6:00 p.m.

S-Cedar Room

Biometrics Editorial Board (closed)

Organizer(s): Marie Davidian, North Carolina State University

5:00 p.m.–6:00 p.m.

CC-602

Caucus for Women in Statistics Business Meeting

Organizer(s): Mary W. Gray, American University

5:00 p.m.-6:00 p.m.

CC-601

Business and Economics Statistics Section Business

Chair(s): Paul Shaman, University of Pennsylvania

5:00 p.m.–6:30 p.m.

CC-609

Section on Survey Research Methods Business Meeting

Chair(s): Roger Tourangeau, University of Maryland

5:00 p.m.–6:30 p.m.

CC-605

JSM 2008 Program Committee Orientation Meeting (closed)

Chair(s): Russell V. Lenth, University of Iowa

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

S-Willow B

North Carolina State University Reception for Alumni and Friends

Organizer(s): Tom Gerig, North Carolina State University

5:00 p.m.–7:00 p.m.

S-Douglas Room

Friends and Alumni of UCLA

Organizer(s): Jason Mesa, University of California, Los Angeles

5:30 p.m.-6:30 p.m.

CC-607

Section on Statistics and Marketing Business Meeting

Chair(s): Alan Montgomery, Carnegie Mellon University

5:30 p.m.-6:30 p.m.

S-Willow A

Institute of Mathematical Statistics New Member and Student Reception

Organizer(s): Elyse Gustafson, IMS

5:30 p.m.–7:00 p.m.

CC-603

Section on Statistical Consulting Business Meeting

Chair(s): Philip Dixon, Iowa State University

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

CC-604

ENAR Business Meeting (open to all ENAR members) Organizer(s): Kathy Hoskins, ENAR

CC-613

5:30 p.m.–7:00 p.m. **Section on Nonparametric Statistics Business Meeting**

Chair(s): Pranab K. Sen, The University of North Carolina at Chapel Hill

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

Off Property

University of Washington Department of Biostatistics Alumni Meeting

Organizer(s): Xiao-Hua Andrew Zhou, University of Washington

5:30 p.m.–7:00 p.m.

S-Cirrus Ballroom

Section on Bayesian Statistical Science Open

Chair(s): Dalene Stangl, Duke University

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

CC-4C-1

Section on Government Statistics Business Meeting

Chair(s): Stephanie Shipp, National Institute of Standards and Technology

5:30 p.m.–7:30 p.m.

CC-4C-3

Joint Section on Physical and Engineering Sciences and Section on Quality and Productivity Business **Meeting and Mixer**

Chair(s): Christine M. Anderson-Cook, Los Alamos National Laboratory; Robert Wilkinson, Lubrizol

5:30 p.m.–7:30 p.m.

CC-606

Biopharmaceutical Section Business Meeting

Chair(s): Stacy Lindborg, Eli Lilly and Company

5:30 p.m.–7:30 p.m.

H-Princessa II Ballroom

University of Michigan Biostatistics and Statistics Departments Joint Alumni Reception

Organizer(s): Jack Kalbfleisch, University of Michigan

5:30 p.m.–7:30 p.m.

CC-610

Section on Statistics in Epidemiology Social Mixer

Chair(s): Sander Greenland, University of California, Los Angeles

6:00 p.m.–6:30 p.m.

CC-Ballroom 6ABC

2006 ASA New Fellows Group Picture (closed)

Chair(s): M. Elizabeth Halloran, Fred Hutchinson Cancer Research Center

6:30 p.m.–7:30 p.m.

CC-607

Joint Mixer for Section on Statistics and Marketing and the Business & Economics Section

Chair(s): Alan Montgomery, Carnegie Mellon University; Paul Shaman, University of Pennsylvania

6:00 p.m.–7:30 p.m.

CC-302

Insightful Reception

Organizer(s): Gina Buzzelle, Insightful Corporation

6:00 p.m.–8:00 p.m.

H-Leonesa Ballroom L

University of Wisconsin-Madison Department of Statistics Reception

Organizer(s): Jun Shao, University of Wisconsin-Madison

GENERAL PROGRAM SCHEDULE-

◆ Themed Session ◆ Applied Session ◆ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

6:30 p.m.-7:30 p.m.

CC-4C-2

2006 ASA New Fellows Reception (by invitation only)

Chair(s): M. Elizabeth Halloran, Fred Hutchinson Cancer Research Center

6:30 p.m.-8:00 p.m.

S-Aspen Room

Bristol-Myers Squibb Company Presentation and Reception (closed)

Organizer(s): Denise Houghton, Bristol-Myers Squibb Company

6:30 p.m.-8:00 p.m.

S-Ballard

CRC Press/Taylor & Francis Reception (by invitation only)

Organizer(s): David Grubbs, CRC Press

9:30 p.m.–12:00 a.m.

CC-4C-3

JSM Informal Dance Party (all welcome, included in registration fee)

Continuing Education (Fee Events)

CE 23C

CC-310

8:00 a.m.-12:00 p.m.

Adaptive Tests of Significance and Confidence Intervals

The ASA

Instructor(s): Thomas W. O'Gorman, Northern Illinois University

CE_24C

CC-306

8:30 a.m.-5:00 p.m.

Bayesian Analysis of Case-Control Data

The ASA, Section on Bayesian Statistical Science

Instructor(s): Malay Ghosh, University of Florida; Bhramar Mukherjee, University of Florida; Samiran Sinha, Texas A&M University

CE 25C CC-309

8:30 a.m.-5:00 p.m.

Analysis of Environmental Data with Nondetects

The ASA, Section on Statistics and the Environment Instructor(s): Dennis R. Helsel, U.S. Geological Sur

Instructor(s): Dennis R. Helsel, U.S. Geological Survey; Lopaka Lee, U.S. Geological Survey

8:30 a.m.-5:00 p.m.

Models for Discrete Repeated Measures

The ASA, Section on Statistics in Epidemiology
Instructor(s): Geert Verbeke, K.U. Leuven; Geert Molenberghs,
Limburgs Universitair Centrum

CE_27C

CC-305

8:30 a.m.-5:00 p.m.

Effective Scientific Writing

The ASA

Instructor(s): Judith A. Swan, Princeton University

CE 28C

CC-304

8:30 a.m.-5:00 p.m.

Bioequivalence and Statistics in Clinical Pharmacology

The ASA

Instructor(s): Scott Patterson, GlaxoSmithKline; Byron Jones, Pfizer Inc.

CE_29C

CC-303

8:30 a.m.-5:00 p.m.

Methods and Computational Tools for the Screening and Classification of Microarray Gene Expression Data

The ASA, Biopharmaceutical Section

Instructor(s): Geoff McLachlan, University of Queensland; Kim-Anh Do, M. D. Anderson Cancer Center

CE_30C

CC-310

1:00 p.m.-5:00 p.m.

Meta-analysis: Statistical Methods for Combining the Results of Independent Studies

The ASA

Instructor(s): Ingram Olkin, Stanford University

Roundtables with Coffee 7:00 a.m.-8:15 a.m.

212

CC-4C-1

Section on Bayesian Statistical Science Roundtable with Coffee (fee event)

Section on Bayesian Statistical Science

Organizer(s): Merlise Clyde, Duke University

TL01

Can and Should We Teach Bayesian Inference in Stat 101?—* Jerome Reiter, Duke University

213

CC-4C-1

Section on Statistical Consulting Roundtable with Coffee (fee event)

Section on Statistical Consulting

Organizer(s): Phillip Chapman, Colorado State University

TL02 Bioinformatics Consulting: Keeping up to Date— Ann Hess, Colorado State University

214 CC-4C-1

Section on Statistical Education Roundtable with Coffee (fee event)

Section on Statistical Education

Organizer(s): Patti Collings, Brigham Young University

TL03 Motivating the Math Major To Consider a Career in Statistics— Carolyn Cuff, Westminster College

215 CC-4C-1

Section on Statistics and the Environment Roundtable with Coffee (fee event)

Section on Statistics and the Environment

Organizer(s): Peter Guttorp, University of Washington

TL04 Bayesian Applications in Environmental Science— Eric
 P. Smith, Virginia Polytechnic Institute and State
 University; Keying Ye, The University of Texas at San
 Antonio

216 CC-4C-1

Section on Physical and Engineering Sciences Roundtable with Coffee (fee event)

Section on Physical and Engineering Sciences

Organizer(s): Winson Taam, The Boeing Company

TL05 Weibull Analysis— Fritz Scholz, The Boeing Company

217 CC-4C-1

Section on Risk Analysis Roundtable with Coffee (fee event)

Section on Risk Analysis

Organizer(s): Duane Steffey, Exponent, Inc.

TL06 Estimation of Health Risk from Fish Consumption
Associated with Fishing in an Urban Industrial Setting—

❖ Rose Ray, Exponent, Inc.

218 CC-4C-1

Section on Teaching Statistics in the Health Sciences Roundtable with Coffee (fee event)

Section on Teaching Statistics in the Health Sciences

Organizer(s): Patrick Tarwater, The University of Texas Health Science Center at Houston

Special Presentation 8:30 a.m.-10:20 a.m.

219 CC-4C-4

Introductory Overview Lectures: Computer Experiments—Other

The ASA, ENAR, IMS, SSC, WNAR, Section on Physical and Engineering Sciences Organizer(s): Thomas M. Loughin, Kansas State University Chair(s): Andrew J. Booker, The Boeing Company

8:35 a.m. What Are Computer Experiments, and How Do We Design Them?— William Notz, The Ohio

State University

9:25 a.m. The Modeling and Analysis of Data from

Computer Experiments— Thomas Santner, The

Ohio State University

10:15 a.m. Floor Discussion

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

220 CC-619

JBES Invited Session—Invited

JBES-Journal of Business and Economic Statistics
Organizer(s): Torben G. Andersen, Northwestern University
Chair(s): Torben G. Andersen, Northwestern University

8:35 a.m. On the Fit and Forecasting Performance of New Keynesian Models— Frank Schorfheide, University of Pennsylvania; Marco Del Negro, Federal Reserve Bank of Atlanta; Frank Smets,

Bank of Belgium

9:20 a.m. Disc: Larry Christiano, Northwestern University

European Central Bank; Raf Wouters, National

9:35 a.m. Disc: A. Ronald Gallant, Duke University9:50 a.m. Disc: Christopher Sims, Princeton University

10:05 a.m. Floor Discussion

221 CC-2B

● ❖ Six Sigma: What's Missing—Invited

Section on Quality and Productivity, Section on Statistical Education Organizer(s): Ramon Leon, University of Tennessee Chair(s): Roger W. Hoerl, GE Global Research

8:35 a.m. Improving the Six Sigma Toolkit— Gerald
J. Hahn, GE Global Research/RPI; Necip

Doganaksoy, GE Global Research

9:05 a.m. Six Sigma: What Is Missing?—❖ William C. Parr,

University of Tennessee

GENERAL PROGRAM SCHEDULE -

Making Six Sigma Work: Statistics, Semi-9:35 a.m.

Statistics, and Soft Stuff— Blanton Godfrey,

North Carolina State University

10:05 a.m. Floor Discussion

222 CC-3A

Bayesian Methods in Computational **Biology—Invited**

Section on Bayesian Statistical Science, Biometrics Section, WNAR, ENAR Organizer(s): Joseph G. Ibrahim, The University of North Carolina at Chapel Hill

Chair(s): Joseph G. Ibrahim, The University of North Carolina at Chapel Hill

8:35 a.m. **Evolutionary Sparse Factor Modeling**

for Subpathway Identification and **Characterization**—**♦** Mike West, Duke

University; Carlos Carvalho, Duke University; Quanli Wang, Duke University; Joseph Lucas, Duke University; Joseph Nevins, Duke University; Jeffrey Chang, Duke University

9:00 a.m. **Bayesian Inference for Biochemical Network**

Dynamics— Darren J. Wilkinson, University of

Newcastle upon Tyne

Bayesian One-Way and Two-Way Clustering 9:25 a.m.

Methods for Genomic Data—❖ Jun Liu, Harvard

University

Statistical Methods for Motif Detection 9:50 a.m.

Incorporating Structural Features of DNA—

Mayetri Gupta, The University of North

Carolina at Chapel Hill

Floor Discussion 10:15 a.m.

223 **CC-400**

Alternative Approaches for Sample Size Planning—Invited

Section on Statistical Consulting, Section on Statistical Education Organizer(s): Peter Bacchetti, University of California, San Francisco Chair(s): Stuart A. Gansky, University of California, San Francisco

8:35 a.m. **Estimating the Minimally Significant Difference**

for a Clinical Study—\$Robert A. Parker, Harvard School of Public Health

9:00 a.m. A Completely Different Approach to Sample

> Size Planning—❖ Peter Bacchetti, University of California, San Francisco; Charles E. McCulloch, University of California, San Francisco; Mark R. Segal, University of California, San Francisco

Sample Size and the Value of Information— 9:25 a.m.

*Kimberly M. Thompson, Harvard School of

Public Health

9:50 a.m. Disc: Stephen Senn, University of Glasgow

10:10 a.m. Floor Discussion

224 CC-608

● ♦ Statistical Methods for Integrative **Genomics—Invited**

Biometrics Section, WNAR, ENAR

Organizer(s): Giovanni Parmigiani, The Johns Hopkins University Chair(s): Kim-Anh Do, M. D. Anderson Cancer Center

Integrative Correlation: a Gene-Level Measure 8:35 a.m.

of Cross-Study Reproducibility— Leslie Cope, The Johns Hopkins University; Liz Garrett-Mayer, The Johns Hopkins University; Edward Gabrielson, The Johns Hopkins University School of Medicine; Giovanni Parmigiani, The

Johns Hopkins University

9:00 a.m. A Bayesian Model for Cross-Study Differential

> **Expression**— Andrew Nobel, The University of North Carolina at Chapel Hill; Haakon Tjelmeland, Norwegian University of Science and Technology; Rob Scharpf, The Johns Hopkins University; Giovanni Parmigiani, The Johns Hopkins University

9:25 a.m. Statistical Methods for Analysis of Copy Number and Expression Transcript Data— Debashis

Ghosh, University of Michigan

9:50 a.m. **Integrative Homologous Regulation Analysis**

between Mouse and Human—* Jae K. Lee,

University of Virginia

Floor Discussion 10:15 a.m.

225 CC-603

Network Visualization—Invited

Section on Statistical Graphics, Section on Statisticians in Defense and **National Security**

Organizer(s): Deborah F. Swayne, AT&T Labs-Research Chair(s): Leland Wilkinson, SPSS Inc.

8:35 a.m. **Scaling up Graph Visualization**—**♦** Stephen

North, AT&T Labs-Research

Scalable Drawing of Trees and Graphs— 9:05 a.m.

*Tamara Munzner, The University of British

Columbia

9:35 a.m. Visualizing Evolving Graphs by Simultaneous

Embeddings—**♦** Stephen G. Kobourov,

University of Arizona

10:05 a.m. Floor Discussion

226 CC-617

Teaching Biostatistics without Equations to Health Care Professionals—Invited

Section on Teaching Statistics in the Health Sciences, Section on Statistical Education, Section on Statistical Graphics

Organizer(s): Janet A. Tooze, Wake Forest University School of Medicine

Chair(s): Janet A. Tooze, Wake Forest University School of Medicine

8:35 a.m. Teaching Research Design to Health Sciences
Professionals— Stephen W. Looney, LSU
Health Sciences Center

9:00 a.m. Teaching Statistical Concepts through
Visualization— Edward H. Ip, Wake Forest
University School of Medicine; Gary Wolgast,
Wake Forest University School of Medicine

9:25 a.m. Effective Teaching of Applied Biostatistics for Clinicians Enrolled in a Research Training Program—* Jodi Lapidus, Oregon Health & Science University

9:50 a.m. Disc: Ralph O'Brien, The Cleveland Clinic

10:10 a.m. Floor Discussion

227 CC-607

Statistical Issues in Diagnostic Medicine— Invited

Section on Statistics in Epidemiology, Biometrics Section, Section on Health Policy Statistics, ENAR

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

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

8:35 a.m. Evaluating the Predictiveness of a Continuous
Marker—* Margaret S. Pepe, Fred Hutchinson
Cancer Research Center/University of
Washington; Ying Huang, University of
Washington; Ziding Feng, Fred Hutchinson
Cancer Research Center

9:00 a.m. Double-Semiparametric ROC Regression
Analysis—*Xiao-Hua Andrew Zhou, University
of Washington; Huazhen Lin, University of
Washington

9:25 a.m. Evaluation of Diagnostic Tests in Studies with Verification Bias—* Marina Kondratovich, U.S.

Food and Drug Administration

9:50 a.m. Disc: Colin B. Begg, Memorial Sloan-Kettering

Cancer Center

10:10 a.m. Floor Discussion

228 CC-618

● ② Statistical Responses to Legislation: the Privacy Rule—Invited

Committee on Privacy and Confidentiality, Section on Health Policy Statistics Organizer(s): Alvan O. Zarate, National Center for Health Statistics Chair(s): Laura Zayatz, U.S. Census Bureau

8:35 a.m. The Statistician's Role in Developing the HIPAA
De-identification Standard—& Alvan O. Zarate,
National Center for Health Statistics

9:00 a.m. The Federal Statisticians' Response to the HIPAA Privacy Rule— * Jacob Bournazian, Energy Information Administration

9:25 a.m. Statistical Deidentification and the HIPAA Rule— Patrick Baier, National Opinion Research Center

9:50 a.m. Disc: J. Neil Russell, National Center for

Education Statistics

10:10 a.m. Floor Discussion

229 CC-602

Recent Developments in Nonparametric Survival Analysis Methods—Invited

ENAR, Biometrics Section, WNAR, Section on Nonparametric Statistics

Organizer(s): Haibo Zhou, The University of North Carolina at Chapel
Hill

Chair(s): Jianqing Fan, Princeton University

8:35 a.m. Partially Linear Hazard Regression for Multivariate Survival Data— Jianwen Cai, The University of North Carolina at Chapel Hill; Jianqing Fan, Princeton University; Jiancheng Jiang, Princeton University; Haibo Zhou, The University of North Carolina at Chapel Hill

8:55 a.m. A General Imputation Methodology for
Nonparametric Regression with Censored
Data—* Daniel Rubin, University of California,
Berkeley; Mark van der Laan, University of
California, Berkeley

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GENERAL PROGRAM SCHEDULE –

○ Themed Session ◆ Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

9:15 a.m. Kernel-Smoothed Profile Likelihood Function in Accelerated Failure Time Model—* Donglin Zeng, The University of North Carolina at Chapel Hill; Danyu Lin, The University of North Carolina at Chapel Hill
 9:35 a.m. Nonparametric Analysis of Multivariate Competing Risks Data—* Jason P. Fine, University of Wisconsin-Madison
 9:55 a.m. An Additive Modulated Renewal Process—* Dorota Dabrowska, University of California,

10:15 a.m. Floor Discussion

Los Angeles

230 CC-206

● Client-Oriented Perspectives on Small-Area Estimation—Invited

Section on Survey Research Methods, Section on Physical and Engineering Sciences

Organizer(s): Avinash C. Singh, Statistics Canada Chair(s): Graham Kalton, Westat

8:35 a.m. Characterization of Cost Structures, Perceived Value, and Optimization Issues in Small-Domain Estimation—* John L. Eltinge, Bureau of Labor Statistics

9:00 a.m. A Small-Area Estimation Approach in Reducing
Survey Costs—& Partha Lahiri, University of
Maryland; Paul D. Williams, National Center for
Health Statistics

9:25 a.m. Some Problems and Possible Solutions in Developing a Small-Area Estimation Product for Clients—* Avinash C. Singh, Statistics Canada

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

10:10 a.m. Floor Discussion

Topic-Contributed Sessions 8:30 a.m.-10:20 a.m.

231 CC-609

Missing Data in Clinical Trials: Can We Do Better Than LOCF?—Topic-Contributed

Biopharmaceutical Section, Biometrics Section, ENAR

Organizer(s): Bret Musser, Merck Research Laboratories

Chair(s): Bret Musser, Merck Research Laboratories

8:35 a.m. Is It Better To Use Random Effects Models in Analysis of Repeated Binary Responses with Missing Data?—❖ Guanghan Liu, Merck Research Laboratories

8:55 a.m. An Analytic Road Map for Incomplete
Longitudinal Clinical Trial Data— & Craig
Mallinckrodt, Eli Lilly and Company; Shuyi
Shen, Eli Lilly and Company; Caroline
Beucnkens, Limburgs Universitair Centrum;
Geert Molenberghs, Limburgs Universitair
Centrum

9:15 a.m. Mixed-Effects Latent Curve Modeling of Incomplete Longitudinal Cognitive Data—❖ John J. McArdle, University of Southern California

9:35 a.m. Scope of the Problem, Options Available, and Empirical Performance of Techniques for Handling Missing Data in Randomized Clinical Trials: Focus on Weight Loss Trials—* David B. Allison, The University of Alabama at Birmingham

9:55 a.m. Disc: Fanhui Kong, U.S. Food and Drug Administration

10:15 a.m. Floor Discussion

232 CC-615

Applications in Seasonal Adjustment—Topic-Contributed

Business and Economics Statistics Section
Organizer(s): Benoit Quenneville, Statistics Canada
Chair(s): Peter Kenny, PBK Research

8:35 a.m. Balancing SA Series as a Complement to the Direct and Indirect SA of Series— Benoit Quenneville, Statistics Canada

8:55 a.m. Computing Tasks Associated with Seasonal Adjustment at Statistics Canada: Methods and Software— Susie Fortier, Statistics Canada; Benoit Ouenneville, Statistics Canada

9:15 a.m. Exploring Model-Based Seasonal Adjustment for Industry Employment Statistics—& Christopher Manning, Bureau of Labor Statistics; Jeffrey A. Smith, Bureau of Labor Statistics

9:35 a.m. Variance Estimation for Noise Components in Time Series from a Survey— Daniell Toth, Bureau of Labor Statistics; Stuart Scott, Bureau of Labor Statistics

9:55 a.m. Disc: Estela BeeDagum, University of Bologna

10:15 a.m. Floor Discussion

233 CC-210

♦ New Methods for Testing Sensitive Questions Using the National Health Interview Survey— Topic-Contributed

Section on Survey Research Methods

Organizer(s): Peter Meyer, National Center for Health Statistics Chair(s): Julie Trépanier, Statistics Canada

8:35 a.m. Developing New Methods and Questions for Improving Response and Measurement on Sensitive Questions on the National Health Interview Survey— Peter Meyer, National Center for Health Statistics; James Dahlhamer, National Center for Health Statistics; John Pleis, National Center for Health Statistics

8:55 a.m. Sampling and Oversampling in the National Health Interview Survey—& Chris Moriarity, National Center for Health Statistics

9:15 a.m. Unfolding the Answers? Income Brackets and Income Nonresponse in the National Health Interview Survey (NHIS)—* John Pleis, National Center for Health Statistics

9:35 a.m. Questions People Don't Like To Answer:
Wealth and Social Security Numbers—* James
Dahlhamer, National Center for Health Statistics;
Peter Meyer, National Center for Health
Statistics; John Pleis, National Center for Health
Statistics

9:55 a.m. Disc: James Chromy, RTI International

10:15 a.m. Floor Discussion

234 CC-211

● ❖ Frontiers in Demographic Coverage Measurement—Topic-Contributed

Social Statistics Section

Organizer(s): Dean H. Judson, U.S. Census Bureau Chair(s): Jeremy Wu, U.S. Census Bureau

8:35 a.m. Demographic Coverage Measurement: Can Information Integration Theory Help?— Dean H. Judson, U.S. Census Bureau

8:55 a.m. Demographic Analysis in the UK Census: a Look
Back to 2001 and Looking Forward to 2011—
Owen Abbott, Office for National Statistics;

Garnett Compton, Office for National
Statistics

9:15 a.m. Coverage Assessment and Adjustment in the 2011 UK Census—*Owen Abbott, Office for National Statistics

9:35 a.m. Using the Audit Trail Data To Evaluate the Quality of Collection of the Canadian National Longitudinal Survey of Children and Youth—

*Bruno Lapierre, Statistics Canada; Scott

Meyer, Statistics Canada

9:55 a.m. Floor Discussion

235 CC-214

Climate, Weather, and Spatial-Temporal Models—Topic-Contributed

Section on Statistics and the Environment, Section on Statisticians in Defense and National Security, Section on Bayesian Statistical Science, WNAR Organizer(s): Stephan Sain, University of Colorado at Denver and Health Sciences Center

Chair(s): Douglas W. Nychka, National Center for Atmospheric Research

8:35 a.m. Models for Multivariate Spatial Lattice Data and Assessing Climate Change— Stephan Sain, University of Colorado at Denver and Health Sciences Center

8:55 a.m. Spatial Patterns of Global Climate Change Fields—*Reinhard Furrer, Colorado School of Mines; Reto Knutti, National Center for Atmospheric Research

9:15 a.m. Modeling Precipitation Network Data When Station Reporting Times Are Misaligned—

* Jarrett Barber, Montana State University; Alan E. Gelfand, Duke University; Douglas W. Nychka, National Center for Atmospheric Research

9:35 a.m. Spatial and Temporal Models for Evaluating IPCC Climate Model Outputs—& Mikyoung Jun, Texas A&M University; Douglas W. Nychka, National Center for Atmospheric Research; Reto Knutti, National Center for Atmospheric Research

9:55 a.m. A Hierarchical Bayesian Spatio-Temporal Model for Tropospheric Carbon Monoxide— Anders Malmberg, National Center for Atmospheric Research

10:15 a.m. Floor Discussion

236 CC-3B Spatial Modeling—Topic-Contributed

Section on Bayesian Statistical Science, Section on Nonparametric Statistics Organizer(s): Herbert Lee, University of California, Santa Cruz Chair(s): Christopher Hans, The Ohio State University

8:35 a.m. Gaussian Processes and Limiting Linear Models—Robert Gramacy, University of

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Cambridge; & Herbert Lee, University of California, Santa Cruz

Bayesian Model for Dependent Nonparametric

Regressions— Abel Rodriguez, Duke University; Alan E. Gelfand, Duke University; David B. Dunson, National Institute of Environmental Health Sciences

9:15 a.m. Sampling Importance Resampling for Computer Model Inverse Problems—& Matt Taddy,
University of California, Santa Cruz; Bruno Sanso, University of California, Santa Cruz; Herbert Lee, University of California, Santa Cruz

9:35 a.m. Bayesian Computational Methods for Models in Geosciences— Alejandro Villagran, University of New Mexico; Gabriel Huerta, University of New Mexico

10:15 a.m. Floor Discussion

8:55 a.m.

237 CC-401

Fostering Active Learning in Statistics—Topic-Contributed

Section on Statistical Education, Section on Teaching Statistics in the Health Sciences

Organizer(s): Carl Lee, Central Michigan University Chair(s): Carl Lee, Central Michigan University

8:35 a.m. How Do You Come up with These Things?—

*André Michelle Lubecke, Lander University

8:55 a.m. Using Simulation To Introduce Inference—

Sharon Lane-Getaz, University of Minnesota/
Cal Poly; Andrew Zieffler, University of
Minnesota

9:15 a.m. Active Learning in an Online Introductory Statistics Course—❖ Michelle Everson, University of Minnesota

9:35 a.m. Designing Classroom Activities for Student
Learning—❖ Allan Rossman, California
Polytechnic State University, San Luis Obispo;
Beth Chance, California Polytechnic State
University, San Luis Obispo

9:55 a.m. Evaluation of Students' Learning in Real-Time
Online Activities Environment— Felix Famoye,
Central Michigan University; Carl Lee, Central
Michigan University

10:15 a.m. Floor Discussion

238 CC-204

Health Policy Student Paper Awards—Topic-Contributed

Section on Health Policy Statistics

Organizer(s): Bonnie Ghosh-Dastidar, RAND Corporation Chair(s): Bonnie Ghosh-Dastidar, RAND Corporation

8:35 a.m. Understanding Self-Reported Disability among the Elderly: a Novel Use of Anchoring Vignettes— * Kate Stewart, Harvard University; Mary Beth Landrum, Harvard Medical School; David M. Cutler, Harvard University

8:55 a.m. Hierarchical and Joint Site-Edge Methods for Medicare Hospice Service Region Boundary Analysis—& Haijun Ma, University of Minnesota; Bradley P. Carlin, University of Minnesota; Sudipto Banerjee, University of Minnesota

9:15 a.m. Extending the Capture-Recapture Methodology
To Estimate Disease Subpopulation Sizes in the
Presence of Cross-Classification—* Ulysses
Diva, University of Connecticut; Dipak Dey,
University of Connecticut; Timothy Morse,
University of Connecticut Health Center

9:35 a.m. Methods for Profiling the Value of Hospital Care Following Acute Myocardial Infarction—* Justin Timbie, Harvard University

9:55 a.m. Nonparametric Statistical Methods for a Cost-Effectiveness Analysis—& Phillip Dinh, University of Washington; Xiao-Hua Andrew Zhou, University of Washington

10:15 p.m. Floor Discussion

Topic-Contributed Panel 8:30 a.m.-10:20 a.m.

239 CC-2A

◆ Responding to Emergency Needs for Data: Developing Population Estimates in the Wake of Hurricane Katrina—Topic-Contributed

Section on Government Statistics

Organizer(s): Wendy Alvey, U.S. Census Bureau; Lisa Blumerman, U.S. Census Bureau

Chair(s): Edward Spar, Council of Professional Associations on Federal Statistics

Panelists: Thomas Nardone, Bureau of Labor Statistics

Christa Jones, U.S. Census Bureau

	Lisa Blumerman, U.S. Census Bureau
	Marc Roemer, U.S. Census Bureau
	Sally Obenski, U.S. Census Bureau
10:15 a.m.	Floor Discussion

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

240 CC-205 Methods for High-Dimensional Data—

IMS

Contributed

Chair(s): Elizabeth Koehler, University of Washington

8:35 a.m. Constrained Dimension Reduction Based on Canonical Correlation—* Jianhui Zhou, University of Virginia

8:50 a.m. Sliced Inverse Regression under Data
Contamination— Ulrike Genschel, Iowa State
University

9:05 a.m. Significance and Recovery of Block Structures in Binary and Real Matrices with Noise—*Xing Sun, The University of North Carolina at Chapel Hill; Andrew Nobel, The University of North Carolina at Chapel Hill

9:20 a.m. Some Extensions of a Two-Sample Test under the Effect of High Dimension— *Yingli Qin, Iowa State University; Song X. Chen, Iowa State University; Liang Peng, Iowa State University

9:35 a.m. Detecting Sparse Signals with a Large Scale of SPRTs—* Yanhong Wu, University of the Pacific

9:50 a.m. On the Accuracy of Data Squashing— Atsuyuki Kogure, Keio University; Masahiko Sagae, Gifu University

10:05 a.m. New Tools for Sparse Inference: the Regime of Moderate Significances—❖ Jiashun Jin, Purdue University

241 CC-601 Construction of Prior Distributions—Contributed

Section on Bayesian Statistical Science

Chair(s): Raphael Gottardo, The University of British Columbia

8:35 a.m. An Asymptotic Viewpoint on High-Dimensional Bayesian Testing— Dan Spitzner, Virginia Polytechnic Institute and State University

8:50 a.m. Novel Bayesian Variable-Selection Priors for "Large p Small n" Data Analysis—* Joseph Lucas, Duke University

9:05 a.m. New Priors for Complex System Reliabilities and Trends—& Earl Lawrence, Los Alamos National Laboratory; Scott Vander Wiel, Los Alamos National Laboratory

9:20 a.m. Reference Priors in Linear Models with General Covariance Structures— * Xin Zhao, Merck & Co., Inc.; Martin T. Wells, Cornell University

9:35 a.m. Bayesian Interval Estimation of Attributable Risk Using Probability Matching Prior— Bin Huang, Cincinnati Children's Hospital Medical Center; Siva Sivaganisan, University of Cincinnati

9:50 a.m. Bayesian Inference with Matching Priors— *Ana-Maria Staicu, University of Toronto

10:05 a.m. A General Approach for Constructing
Normalizing Constants for Parameter Selection
Priors— Christopher Carter, University of New
South Wales

242 CC-213 Classification and Other Correlated Data Problems—Contributed

Section on Physical and Engineering Sciences

Chair(s): EunJoo Lee, Advanced Micro Devices, Inc.

8:35 a.m. InfoEvolve(TM): a Data Mining Tool Combining Information Theory and Genetic Algorithms—

* Aaron J. Owens, DuPont; Karen M. Bloch, DuPont

8:50 a.m. Analysis of Handwritten ZIP Code Digits Using OBSTree— Atina Dunlap Brooks, North Carolina State University; Jacqueline Hughes-Oliver, North Carolina State University

9:05 a.m. A Nonparametric Approach Based on a Like
Markov Property for Classification—& Eun Sug
Park, Texas Transportation Institute; Clifford
Spiegelman, Texas A&M University

9:20 a.m. Sensitivity Analysis with Correlated Inputs:
Application to Kinetic Models— Sebastien
Da Veiga, Institut Français du Pétrole; François
Wahl, Institut Français du Pétrole; Fabrice
Gamboa, Université Paul Sabatier

9:35 a.m. A Structural Equation Method for Modeling
Data Center Thermal Distribution—* Zhiguang
Qian, Georgia Institute of Technology; Yasuo
Amemiya, IBM T. J. Watson Research Center

GENERAL PROGRAM SCHEDULE -

② Themed Session ● Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

9:50 a.m. Improved Tolerance Factors for Multivariate
Normal— Sumona Mondal, University
of Louisiana at Lafayette; Kalimuthu
Krishnamoorthy, University of Louisiana at
Lafayette

10:05 a.m. K-Means Clustering: a Novel Probabilistic Formulation, with Some Applications—

* Samiran Ghosh, University of Connecticut; Dipak Dey, University of Connecticut

243 CC-605

Missing or Censored Data—Contributed

Section on Statistical Computing, Biometrics Section, ENAR

Chair(s): George Terrell, Virginia Polytechnic Institute and State
University

- 8:50 a.m. An Investigation of Missing Data Methods for Decision Trees— * Yufeng Ding, New York University; Jeffrey Simonoff, New York University
- 9:05 a.m. Nonlinear Neural Network Imputation—❖ Safaa Amer, National Opinion Research Center
- 9:20 a.m. Using Objective Measures in Combination with Self-Report To Estimate Adherence—* Richard Thompson, The Johns Hopkins Bloomberg School of Public Health; Michael Griswold, The Johns Hopkins Bloomberg School of Public Health; Arlene Butz, The Johns Hopkins University; Michael Donithan, The Johns Hopkins Bloomberg School of Public Health
- 9:35 a.m. Test of Independence with Incomplete
 Contingency Table— Shin-Soo Kang, Iowa
 State University; Kenneth Koehler, Iowa State
 University; Michael D. Larsen, Iowa State
 University
- 9:50 a.m. A Comparison of Parametric and Semiparametric Methods for Predicting Limited Dependent Variables—& Maya Sternberg, Centers for Disease Control and Prevention; Alula Hadgu, Centers for Disease Control and Prevention; Suephy Chen, Emory University School of Medicine

10:05 a.m. Estimation of Correlation Coefficient in Bivariate
Normal Population Based on Concomitants
of Order Statistics—*Qinying He, The Ohio
State University; H. N. Nagaraja, The Ohio State
University

244 CC-212

● ② Risk Assessment: Disease, Health, and Harm—Contributed

Section on Risk Analysis, Biometrics Section, ENAR Chair(s): Brian Caffo, The Johns Hopkins University

- 8:50 a.m. Smallpox and Pandemic Influenza: Modeling
 Potential Challenges for the U.S. Blood
 Supply— Steven Anderson, U.S. Food and Drug
 Administration
- 9:05 a.m. A Comparison of Bayesian Networks and MCMC
 Techniques for Quantitative Risk Assessment—
 Paola Berchialla, University of Torino; Silvia
 Snidero, University of Torino; Alexandru Stancu,
 University of Torino; Cecilia Scarinzi, University
 of Torino; Roberto Corradetti, University of
 Torino; Dario Gregori, University of Torino
- 9:20 a.m. Risk Assessment of Listeria Monocytogenes on Frankfurters with Organic Acid Salts Surface Treatments— * Zheng Lu, Iowa State University; Chunwang Gao, Iowa State University
- 9:35 a.m. Generalized Residual Sojourns under Truncation and Censoring—*John Hsieh, University of Nevada, Reno
- 9:50 a.m. General Indexes for Spatial-Temporal Population Risk Assessment—& Chu-Chih Chen, National Health Research Institutes
- 10:05 a.m. Public Health Interventions and Transition Probabilities—❖ Paula Diehr, University of Washington

CC-616

245■ Misspecifications, Data Quality, and Improvements—Contributed

Business and Economics Statistics Section

Chair(s): Michael Smith, University of Sydney

8:35 a.m. Sons, Daughters, and Parents' Labor Supply: New Evidence from Matched CPS Data—* James Vere, The University of Hong Kong

8:50 a.m. Statistical Modeling: Science versus Business and Domain Expertise— Igor Mandel, Media Planning Group; David Hauser, Media Planning Group

9:05 a.m. Estimating Signatures on a Petition with Cis—

*Mary M. Whiteside, The University of Texas at Arlington; Mark E. Eakin, The University of Texas

9:20 a.m. Estimation of Industry Distribution of Statistical Discrepancy in National Income and Product Accounts— Baoline Chen, Bureau of Economic Analysis

9:35 a.m. Quantifying the Quality of Macroeconomic Variables— Alex Teterukovsky, Statistics Sweden; Lars-Erik Öller, Statistics Sweden/ Stockholm University

9:50 a.m. Incorporating EITC Participation into the SAIPE Program's County Poverty Model— Wesley Basel, U.S. Census Bureau; Brian J. O'Hara, U.S. Census Bureau

10:05 a.m. Misspecification of Cointegrating Ranks in Seasonal Models— Byeongchan Seong, Pohang University of Science and Technology; Sinsup Cho, Seoul National University; Sung K. Ahn, Washington State University; S. Y. Hwang, Sookmyung Women's University

246 CC-612

Nonclinical, Nonbiological Drug Development—Contributed

Biopharmaceutical Section

Chair(s): Yanping Wang, Eli Lilly and Company

8:35 a.m. Statistical Issues of Two-Stage Delivery Dose
Uniformity Test of Orally Inhaled and Nasal Drug
Products—& Meiyu Shen, U.S. Food and Drug
Administration; Yi Tsong, U.S. Food and Drug
Administration

8:50 a.m. Practical Considerations on Lot Acceptance Sampling Procedures— Boguang Zhen, U.S. Food and Drug Administration

9:05 a.m. Assessing the Reproducibility of an Analytical Method—& Jason Liao, Merck Research Laboratories

9:20 a.m. Imputing Nonignorable Missing Data on Clinical Laboratory Assessments— *Kapildeb Sen, Bristol-Myers Squibb Company; Chen-Sheng Lin, Bristol-Myers Squibb Company; Kannan Natarajan, Novartis Pharmaceuticals Corporation; Jun Xing, Bristol-Myers Squibb Company

9:35 a.m. Web-Based Interactive Bayesian Multiple-Objective Optimal Designs for Dose Response Studies with Constraints—*Xiang-feng Wu, Stony Brook University; Wei Zhu, Stony Brook University; Holger Dette, Ruhr-Universität Bochum; Weng Kee Wong, University of California, Los Angeles

9:50 a.m. Teaching Statistics to Clinical Research Staff in a Pharmaceutical Company— Sunil Dhar, New Jersey Institute of Technology; Farid Kianifard, Novartis Pharmaceuticals Corporation

10:05 a.m. Floor Discussion

247 CC-613

Methods for Agreement and Paired Data— Contributed

Biometrics Section, ENAR

Chair(s): Michael Haber, Emory University

8:35 a.m. Concordance Correlation Coefficient for Ordinal Data—* Jingyun Yang, The Pennsylvania State University

8:50 a.m. Paradoxes Revisited: Comparison of B-Statistic with Kappa— Shankar Viswanathan, The University of North Carolina at Chapel Hill; Shrikant I. Bangdiwala, The University of North Carolina at Chapel Hill

9:05 a.m. Interobserver Variability and Intraobserver Variability—* Jing Han, St. Francis Hospital

9:20 a.m. Assessing Rater Exchangeability and Identifying an Atypical Rater Using a Log-Linear Modeling Approach—& Kari Kastango, University of Pittsburgh; Roslyn A. Stone, Veteran's Affairs Pittsburgh Healthcare System

9:35 a.m. The Test-Based Exact Confidence Intervals of the Difference between Two Proportions for Small-Sample Paired Binary Data—& Hong-Long Wang, National Taipei University; Shiu-Ying Lin, National Taipei University; Xiao-Hua Andrew Zhou, University of Washington

GENERAL PROGRAM SCHEDULE -

○ Themed Session ● Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

9:50 a.m.	Problems Related to Effect Size Measurement and Analysis— Sibabrata Banerjee, New Jersey Institute of Technology	8:50 a.m.	Sample Size Re-estimation for Time-to-Event Studies— Erinn Hade, The Ohio State University; Soledad Fernandez, The Ohio State University;
10:05 a.m.	Confidence Interval of Effect Size in Paired and Parallel-Group Study—& Jianrong Wu, St. Jude Children's Research Hospital; Guoyong Jiang, Cephalon, Inc.	9:05 a.m.	David Jarjoura, The Ohio State University Sample Size and Power Calculation with Generalized Mixed Effects Model—* Qianyu Dang, University of Pittsburgh; Sati Mazumdar, University of Pittsburgh
248 • Inferent Biometrics Sec	CC-614 ace for Categorical Data—Contributed	9:20 a.m.	Design of Clinical Trials with Flexible Sample Size—* Lu Cui, sanofi-aventis; Fang Liu, Merck Research Laboratories; Ray Zhu, sanofi-aventis
	neth Koehler, Iowa State University Exact Inference for Contingency Tables with Correlated Data—& Chris Corcoran, Utah State University	9:35 a.m.	Approximate Confidence Intervals for Power in UNIREP Analyses— Matthew Gribbin, The University of North Carolina at Chapel Hill; Keith E. Muller, The University of North Carolina at Chapel Hill; Jacqueline Johnson, The
8:50 a.m.	Exact Unconditional Inference for Multinomial Likelihoods with an Example Using 2x3 Contingency Tables—* Gerald Crans, Eli Lilly and Company; Jonathan J. Shuster, University of Florida	9:50 a.m.	University of North Carolina at Chapel Hill Designing Standardly Tailored Multicomponent Intervention Trials in Medicine To Yield Unbiased Effect Estimates— Heather G. Allore, Yale
9:05 a.m.	Measuring Association in Contingency Tables— Shailendra Banerjee, Centers for Disease Control and Prevention	10:05 a.m.	University Evaluation of Several Multiple Comparison Procedures for Noninferiority Trials with Two Doses of a Treatment and a Control with a Binary
9:20 a.m.	Data Information with the Cochran-Mantel- Haenszel Test— Philip E. Cheng, Academia Sinica		Success Rate Endpoint—& Hongling Zhou, U.S. Food and Drug Administration; Mohammad
9:35 a.m.	Modified Maximum Likelihood Estimation of the Proportional Odds Model— Evrim Oral, Middle East Technical University		Huque, U.S. Food and Drug Administration
9:50 a.m.	Using Variation Reduction Point To Remove Extraneous Effect in Modeling—& Chong Yau Fu, National Yang-Ming University; Shih-Hua Liu, National Yunlin University of Science & Technology	Contribution on State Chair(s): Kird	atistics in Epidemiology, Biometrics Section, ENAR os Berhane, University of Southern California
10:05 a.m.	Floor Discussion	8:35 a.m.	Interval Estimation for a Measure of Stochastic Superiority— & Euijung Ryu, University of Florida
240	CC C10	8:50 a.m.	Estimating Equation Approach for Regression

249 CC-610

Design of Power and Sample Size in Clinical Trials—Contributed

Biometrics Section, ENAR

Chair(s): James F. Ward, Sand Point Statistics Group

8:35 a.m. Blinded Sample-Size Re-estimation in Randomized Block Trials with Continuous Endpoint— Biao Xing, Genentech, Inc.; Jitendra Ganju, Biostat Works

8:50 a.m. Estimating Equation Approach for Regression
Analysis of Interval-Censored Failure Time
Data—&HeeJeong Lim, California State University,

Fullerton; Xingqiu Zhao, McMaster University;
Jianguo Sun, University of Missouri-Columbia

9:05 a.m. Sensitivity of the Kaplan-Meier Estimate to
Nonignorable Censoring—& Tao Liu, University
of Pennsylvania School of Medicine; Daniel F.
Heitjan, University of Pennsylvania

9:20 a.m. Censoring Point in Logistic ELISA Standard
Curves— Ryan E. Wiegand, Medical University
of South Carolina; Elizabeth H. Slate, Medical

University of South Carolina; Elizabeth G. Hill, Medical University of South Carolina; Jyotika K. Fernandes, Medical University of South Carolina

9:35 a.m. Biases Due to Left Censoring and Left Truncation in Estimating Menopausal Transition Stages from Menstrual Cycle Data—Kevin Cain, University of Washington; *Bin Nan, University of Michigan

9:50 a.m. Predicting Exposure at a Specified Time Based on an Extended Randomized Regression Model for Interval-Censored Data—*Robert Lyles, Emory University; Amita K. Manatunga, Emory University; Renee Moore, Emory University; Michele Marcus, Emory University

10:05 a.m. Inference for Partially Observed Systems with an Application to Cholera—Edward L. Ionides, University of Michigan; ❖ Carles Breto, University of Michigan; Aaron A. King, University of Michigan

251 CC-604

◆ Design and Analysis Issues in Epidemiological Modeling—Contributed

Section on Statistics in Epidemiology

Chair(s): Jonathan Mahnken, The University of Kansas Medical Center

:35 a.m. Data Analysis under Case-Cohort Designs with Clustered Binary Outcome Data— Shou-En Lu, University of Medicine & Dentistry of New Jersey; Yong Lin, University of Medicine & Dentistry of New Jersey; Joanna H. Shih, National Cancer Institute

8:50 a.m. Early, Cost-Effective Identification of High-Risk/Priority Control Areas in Foot-and-Mouth Disease Epidemics— Steven Schwager, Cornell University; Ariel Rivas, Cornell University; Stephen Smith, Cornell University; Antoni Magri, Cornell University

9:05 a.m. Capture-Recapture Revisited—❖ Lawrence Lessner, SUNY University at Albany



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GENERAL PROGRAM SCHEDULE -

☼ Themed Session ● Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle 5-Sheraton Seattle Hotel & Towers

9:20 a.m. Heterogeneity on Estimation Size of Hard-to-Reach Population Using Capture-Recapture Data—*Shenghai Zhang, Public Health Agency of Canada

9:35 a.m. Analysis of a Disease and Probability of Exposure Association Using a Replicated Error-Prone Exposure Assessment—& Chengxing Lu, Emory University; Robert Lyles, Emory University

9:50 a.m. A Two-Phase Analysis of Air Pollution and Adverse Birth Outcomes— * Katherine Hoggatt, University of Michigan; Sander Greenland, University of California, Los Angeles; Beate Ritz, University of California, Los Angeles

10:05 a.m. Floor Discussion

252 CC-201

Survey-Based Variance Estimation I— Contributed

Section on Survey Research Methods

Chair(s): Keith Rust, Westat/University of Maryland

8:35 a.m. Confidence Intervals for Quantile Estimation from Complex Survey Data— & Babubhai V. Shah, SAFAL Institute Inc.; Akhil Vaish, RTI International

8:50 a.m. Estimating Prevalence When a Subset of the Sample Requires Further Evaluation—* David C. Hoaglin, Abt Associates Inc.; K. P. Srinath, Abt Associates Inc.

9:20 a.m. Variance Estimation in a Survey for Iowa's State
Board of Education—Michael D. Larsen, Iowa
State University; *Lu Lu, Iowa State University

9:35 a.m. Variance Estimation in Complex Survey Sampling for Generalized Linear Models— Sundar
Natarajan, New York University Medical Center;
Stuart Lipsitz, Brigham and Women's Hospital;
Garrett Fitzmaurice, Harvard University; Charity
G. Moore, University of South Carolina

9:50 a.m. Variance Estimation of the Survey-Weighted
Kappa Measure of Agreement—* Moshe Feder,
RTI International

10:05 a.m. Improved Confidence Intervals for the Bernoulli Parameter—Wheyming Tina Song, National Tsing Hua University; ❖ Chia-Jung Chang, National Tsing Hua University

253 CC-203

Survey-Based Estimation II—Contributed

Section on Survey Research Methods

Chair(s): Elizabeth R. Zell, Centers for Disease Control and Prevention

8:35 a.m. Methods for Birth Cohort Analysis for the National Immunization Survey— Phil Smith, Centers for Disease Control and Prevention; Kirk Wolter, National Opinion Research Center; James Singleton, Centers for Disease Control and Prevention

8:50 a.m. Estimation of Regression Coefficients with Unequal Probability Samples—*Yu Wu, Iowa State University; Wayne Fuller, Iowa State University

9:05 a.m. Indirect Sampling and the Problem of Identification of Links—& Pierre Lavallée,
Statistics Canada; Xiaojian Xu, University of Alberta

9:20 a.m. A Comparison between Ratio Estimation and Post-Stratification—& Chang-Tai Chao, National Cheng Kung University; Tzu-Ching Chiang, National Cheng Kung University

9:50 a.m. Model Averaging in Survey Estimation— *Xiaoxi Li, Iowa State University; Jean D. Opsomer, Iowa State University

10:05 a.m. Integrating Person and Housing Unit Weighting for the Current Population Survey— Andrew Zbikowski, U.S. Census Bureau; Phawn Letourneau, U.S. Census Bureau

254 CC-620

Nonparametric Regression Methods II— Contributed

Section on Nonparametric Statistics

Chair(s): Yolanda Munoz Maldonado, The University of Texas School of Public Health

8:35 a.m. Spline Single-Index Prediction Model—*Li
Wang, Michigan State University; Lijian Yang,
Michigan State University

8:50 a.m.	Testing Lack-of-Fit of Heteroscedastic Nonlinear Regression Models with Local Linear Smoothers—& Chin-Shang Li, St. Jude Children's Research Hospital
9:05 a.m.	Local Analytic Curve Estimation— Richard Charnigo, University of Kentucky; Cidambi Srinivasan, University of Kentucky
9:20 a.m.	Nonparametric Regression with Coarsened Predictors— Aurore Delaigle, University of California, San Diego
9:35 a.m.	Asymptotic Approximation to a Nonparametric Regression Experiment with Unknown Variance—* Andrew Carter, University of California, Santa Barbara
9:50 a.m.	Floor Discussion

255 CC-611

Biomarkers and Joint Models—Contributed

Biometrics Section, WNAR, ENAR

Chair(s): Elizabeth Brown, University of Washington

8:35 a.m. Mixtures-of-Experts Joint Model for Longitudinal

Biomarkers and Recurrent Events—**♦** Jun Han, Georgia State University; Elizabeth H. Slate, Medical University of South Carolina; Edsel

Peña, University of South Carolina

Joint Analysis of Longitudinal Measurements 8:50 a.m.

> and Competing Risks Failure Time Data—* Ning Li, University of California, Los Angeles; Robert Elashoff, University of California, Los Angeles; Gang Li, University of California, Los Angeles

9:05 a.m. Joint Modeling of Survival and Longitudinal

Data—Jimin Ding, University of California, Davis

Type I and II Error of Joint Multimarkers Cox 9:20 a.m.

Models To Predict Chronic Disease Outcomes—

Philimon Gona, Boston University

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② Themed Session ● Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

9:35 a.m. Robust Analysis of Biomarker Data with Informative Missingness Using a Two-Stage Hypothesis Test in an HIV Treatment Interruption Trial: AIEDRP AIN503 /ACTG A5217—& Karen Messer, University of California, San Diego; Florin Vaida, University of California, San Diego; Christine Hogan, Columbia University

- 9:50 a.m. Evaluating Causal Effect Predictiveness of Candidate Surrogate Endpoints—& Peter Gilbert, Fred Hutchinson Cancer Research Center/University of Washington; Michael G. Hudgens, The University of North Carolina at Chapel Hill

Special Presentation 10:30 a.m.-12:20 p.m.

256 CC-400 ASA Stat Bowl Session 1—Other

The ASA, ENAR, IMS, SSC, WNAR

Organizer(s): Mark Payton, Oklahoma State University Chair(s): Mark Payton, Oklahoma State University

- Game 1—* Upasana Santra, University of Florida; * Samiran Ghosh, University of Connecticut; * Susanta Tewari, University of Georgia; * Xinwei Deng, Georgia Institute of Technology
- Game 2— Vivekananda Roy, University of Florida; Ving Hung, Georgia Institute of Technology; Dipankar Bandyopadhyay, University of Georgia; Jeffrey Lidicker, Temple University
- Game 3— Fang Yu, University of Connecticut; Alicia Graziosi, Temple University; Arunava Chakravartty, University of California, Riverside; Rajarshi Dey, Kansas State University
- Game 4— * Ke Zhang, Kansas State University; * Tanujit Dey, Case Western Reserve University; * Christopher Rigdon, Southern Illinois University; * Satrajit Roychoudhury, New Jersey Institute of Technology

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

257 CC-4C-4

● ② Hurricane Katrina and Economic Data— Invited

Business and Economics Statistics Section

Organizer(s): John L. Eltinge, Bureau of Labor Statistics Chair(s): John L. Eltinge, Bureau of Labor Statistics

- 10:35 a.m. Current Population Survey Response to the Hurricane Katrina Disaster— Edwin L. Robison, Bureau of Labor Statistics; Anne Polivka, Bureau of Labor Statistics; Diane Herz, Bureau of Labor Statistics; Lawrence Cahoon, U.S. Census Bureau; Richard Ning, U.S. Census Bureau; Maria Reed, U.S. Census Bureau; Greg Weyland, U.S. Census Bureau
- 11:00 a.m. Accounting for Katrina Effects in State Labor Force Estimates—& Richard Tiller, Bureau of Labor Statistics; Sharon Brown, Bureau of Labor Statistics
- 11:25 a.m. Effects of Hurricane Katrina on the BLS Payroll
 Survey—*Patricia Getz, Bureau of Labor
 Statistics; Richard Rosen, Bureau of Labor
 Statistics; Larry Huff, Bureau of Labor Statistics;
 Angela Clinton, Bureau of Labor Statistics
- 11:50 a.m. Analysis and Procedures in the Census Bureau's
 Trade Surveys after Hurricane Katrina—* Jock
 R. Black, U.S. Census Bureau; Ruth E. Detlefsen,
 U.S. Census Bureau
- 12:15 p.m. Floor Discussion

258 CC-607

● ② Estimation of Treatment Effect for Clinical Trials with Group Sequential Designs—Invited

Biopharmaceutical Section, Biometrics Section, ENAR

Organizer(s): Michael W. Lee, Johnson & Johnson Pharmaceutical R&D; Hui Quan, sanofi-aventis

Chair(s): Daowen Zhang, sanofi-aventis

- 10:35 a.m. Estimation Following Group Sequential Trials: a Bayesian View— & Gary L. Rosner, M. D. Anderson Cancer Center
- 11:10 a.m. Conditional Estimation of Treatment Effects for Clinical Trials with Group Sequential

 Designs—* Michael W. Lee, Johnson & Johnson Pharmaceutical R&D; Hui Quan, sanofi-aventis
- **11:45 a.m.** Disc: Weichung J. Shih, University of Medicine & Dentistry of New Jersey
- 12:05 p.m. Floor Discussion

259 CC-2B

◆ Advances in Phylogenetic Inference— Invited

IMS, WNAR

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

- 10:35 a.m. Analysis of Comparative Data with Hierarchical Autocorrelation—❖ Cecile Ane, University of Wisconsin-Madison
- 11:00 a.m. Using Bootstrap Support for Splits To Construct Confidence Regions for Trees—*Edward Susko, Dahousie University
- 11:25 a.m. The Threshold Model: an Underutilized Resource in Phylogenetic Inference—& Joseph Felsenstein, University of Washington
- 11:50 a.m. Algebraic Statistics and Phylogenetic Inference: Establishing Identifiability of Mutation Models—* Elizabeth S. Allman, University of Alaska, Fairbanks; John A. Rhodes, University of Alaska, Fairbanks

12:15 p.m. Floor Discussion

260 CC-210

Personal Networks: Applications Using Data on Social Relationships—Invited

Section on Statistical Computing, Section on Statisticians in Defense and National Security, Section on Statistical Graphics

Organizer(s): Chris Volinsky, AT&T Labs-Research

Chair(s): Deepak K. Agarwal, AT&T Labs-Research

- 10:35 a.m. Design and Analysis of 'How Many Xs Do You Know?' Surveys—❖Tian Zheng, Columbia University; Andrew Gelman, Columbia University
- **11:00 a.m. Data Mining in Networks—** ❖ David Jensen, University of Massachusetts
- 11:25 a.m. The Dynamics of Viral Marketing—Jure
 Leskovec, Carnegie Mellon University; ❖ Lada
 A. Adamic, University of Michigan; Bernardo
 Huberman, Hewlett Packard Labs
- **11:50 a.m. Modeling Massive Dynamic Graphs *** Chris Volinsky, AT&T Labs-Research
- 12:15 p.m. Floor Discussion

261 CC-206

Modeling Behavioral Data from Clinical Research on Smoking—Invited

Section on Health Policy Statistics, Biometrics Section
Organizer(s): E. Paul Wileyto, University of Pennsylvania
Chair(s): Joseph L. Schafer, The Pennsylvania State University

- 10:35 a.m. Modeling Heaping in Self-Reported Cigarette Counts—❖ Daniel F. Heitjan, University of Pennsylvania
- 11:00 a.m. A Cure Mixture Model for Multivariate Time-to-Event Data— & E. Paul Wileyto, University of Pennsylvania
- 11:25 a.m. Modeling Variation in the Effects of Smoking
 Using Intensive Longitudinal Data—* Donald
 Hedeker, University of Illinois at Chicago
- 11:50 a.m. Exploring the Relationship between Adverse Events, Compliance, Dropout, and Abstinence in Pharmacotherapy Smoking Cessation Trials—

 *Joel A. Dubin, University of Waterloo
- 12:15 p.m. Floor Discussion

262 CC-603

◆ ○ Complex Data Structures—Invited

SSC

Organizer(s): James Stafford, University of Toronto Chair(s): James Stafford, University of Toronto

- 10:35 a.m. Issues Relating to Methods for Analysis of Survey Data— David Binder, Statistical Society of Canada; Georgia Roberts, Statistics Canada
- 11:05 a.m. Spatial-Temporal Modeling for Marine Ecological Systems—& Joanna M. Flemming, Dahousie University
- 11:35 a.m. A Stochastic Model for Forest Fire Growth—
 *Willard J. Braun, University of Western Ontario
- 12:05 p.m. Floor Discussion

263 CC-3A

● ② Effective Leadership for Statistical Thinking and Impact—Invited

Council of Chapters, Section on Statistical Education, Section on Statistical Consulting

Organizer(s): James Kenyon, Bristol-Myers Squibb Company Chair(s): James Kenyon, Bristol-Myers Squibb Company

10:35 a.m. Building Statistical Thinking into the School Curriculum: Obstacles and Opportunities—

*Richard L. Scheaffer, University of Florida

GENERAL PROGRAM SCHEDULE-

11:05 a.m. Seven Habits of Highly Effective Statisticians in

Pharmaceutical Industry— Frank Shen,

Bristol-Myers Squibb Company

11:35 a.m. **Effective Statistical Leadership in Government**

and Industry— Fritz J. Scheuren, National

Opinion Research Center

12:05 p.m. Floor Discussion

CC-604 264

Bombs to Bullets, People to Planets: Exploring Imaging Applications with a Statistician's Eye— Invited

Section on Physical and Engineering Sciences, Section on Statisticians in Defense and National Security, Section on Statistical Graphics Organizer(s): Kary Myers, Los Alamos National Laboratory Chair(s): Kary Myers, Los Alamos National Laboratory

10:35 a.m. Do Guns Transfer Their DNA to Bullets?—

William F. Eddy, Carnegie Mellon University

Using Image Grand Tour To Explore Multiangle,

Multispectral Satellite Imagery— Amy Braverman, Jet Propulsion Laboratory; Edward Wegman, George Mason University; Wendy Martinez, Office of Naval Research; Juergen Symanzik, Utah State University; Brad Wallet,

Automated Decisions

11:25 a.m. **Tomographic Imaging Using Background Cosmic**

Radiation—❖ Nicolas Hengartner, Los Alamos

National Laboratory

Using Statistics To Search and Annotate Pictures— 11:50 a.m.

Nuno Vasconcelos, University of California, San

Diego; Pedro J. Moreno, Google, Inc.

Floor Discussion 12:15 p.m.

CC-616 265

◆ ☼ Bayesian Spatio-Temporal Models—Invited

WNAR, Biometrics Section, Section on Bayesian Statistical Science, Section on Statistics and the Environment

Organizer(s): Bruno Sanso, University of California, Santa Cruz Chair(s): Catherine A.Calder, The Ohio State University

Spatial Dynamic Factor Models—❖ Hedibert

F. Lopes, The University of Chicago; Esther S. Salazar, Instituto de Matemática-UFRJ; Dani Gamerman, Instituto de Matemática-UFRJ

11:00 a.m. Characterizing Invasions with Hierarchical, Rule-

Based Systems—*Mevin B. Hooten, University of Missouri-Columbia; Christopher K. Wikle,

University of Missouri-Columbia

Spatially Varying AR Processes Based on Discrete

Convolutions— Bruno Sanso, University of California, Santa Cruz; Alexandra Schmidt, Universidade Federal de Rio de Janeiro; Aline Nobre, Universidade Federal de Rio de Janeiro

Using Computer Models To Inform about Space-11:50 a.m.

Time Fields—**♦** Dave Higdon, Los Alamos

National Laboratory

Floor Discussion 12:15 a.m.

CC-211 266

Challenges Facing the Next Generation of **Applied Statisticians—Invited**

Social Statistics Section, Committee on Applied Statisticians, Committee on Women in Statistics, Committee on Law and Justice Statistics, Section on Statistical Education, Section on Statistical Consulting

Organizer(s): Kelly H. Zou, Harvard Medical School

Chair(s): Alan M. Zaslavsky, Harvard Medical School

10:35 a.m. Motivations and Challenges Facing Women

Statisticians— *Kelly H. Zou, Harvard Medical

11:00 a.m. Statistical Tools Employed in Legal Settings—

Mary W. Gray, American University

11:25 a.m. Professional Accreditation for Statisticians—

Mary Batcher, Ernst & Young LLP

11:50 a.m. Disc: Kimberly F. Sellers, Georgetown University

12:10 p.m. Floor Discussion

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

267 CC-2A

Practical Issues in Conducting Statistics **Education Research—Invited**

Section on Statistical Education

Organizer(s): Joan Garfield, University of Minnesota Chair(s): Joan Garfield, University of Minnesota

Panelists: Robert DelMas, University of Minnesota

- Beth Chance, California Polytechnic State University, San Luis Obispo
- Sterling Hilton, Brigham Young University
- *Lawrence M. Lesser, The University of Texas at El Paso
- Andrew Zieffler, University of Minnesota

12:15 p.m. Floor Discussion

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

268 CC-601

Nonparametric Statistical Process Control Methods—Topic-Contributed

Section on Quality and Productivity, Section on Nonparametric Statistics Organizer(s): Subha Chakraborti, The University of Alabama Chair(s): Subha Chakraborti, The University of Alabama

10:35 a.m. Minimum Control Charts— * Willem Albers, University Twente

10:55 a.m. Distribution-Free Quality Control Charts Based on Signed-Rank-Like Statistics— Saad Bakir, Alabama State University

11:35 a.m. Distribution-Free Multivariate Process Control Based on Log-Linear Modeling— Peihua Qiu, University of Minnesota

11:55 a.m. A Bayesian Approach in Modeling Shifts of the Mean/Variance of Count Data— Panagiotis
Tsiamyrtzis, Athens University of Economics and Business; Douglas M. Hawkins, University of Minnesota

12:15 p.m. Floor Discussion

269 CC-609

● ② Bayesian Computational Methods for Biomedical Applications—Topic-Contributed

Section on Bayesian Statistical Science, Biometrics Section, ENAR Organizer(s): Sujit Ghosh, North Carolina State University Chair(s): Marina Vannucci, Texas A&M University

10:35 a.m. Bayesian Hidden Markov Modeling of Array CGH
Data—❖ Subharup Guha, Harvard School of
Public Health

10:55 a.m. A Hierarchical Bayesian Analysis of Longitudinal Frequency Data Using Piecewise Linear Regression—* John Kern, Duquesne University; Nicholas Bernini, Duquesne University; Sujit Ghosh, North Carolina State University

11:15 a.m. Bayesian Spatial Modeling of Data from Bird Surveys— Raymond Webster, North Carolina State University; Kenneth Pollock, North Carolina State University; Theodore Simons, North Carolina State University

11:35 a.m. Bayesian Inference for NLME Models Involving
ODEs— Sujit Ghosh, North Carolina State
University; Lovely Goyal, North Carolina State
University

11:55 a.m. Bayesian Modeling of Longitudinal Data with Nonignorable Missing Data—*Liansheng Zhu, North Carolina State University; Sujit Ghosh, North Carolina State University; Subhashis Ghosal, North Carolina State University

12:15 p.m. Floor Discussion

270 CC-617

Recent Advances in Analyzing Agreement Data—Topic-Contributed

Biometrics Section, ENAR

Organizer(s): Ananda Sen, University of Michigan Chair(s): Ananda Sen, University of Michigan

10:35 a.m. Bivariate Modeling of Interobserver Agreement Coefficients— Mohamed Shoukri, King Faisal Specialist Hospital; Allan Donner, University of Western Ontario

10:55 a.m. A Weighted Kappa for Agreement between Two Ratings with Different Ordinal Scales— Stuart Lipsitz, Brigham and Women's Hospital

11:15 a.m. Coefficient of Agreement for Binary Data with Replications— * Huiman Barnhart, Duke University; Michael Haber, Emory University; Andrzej Kosinski, Duke University

11:35 a.m. A Permutation Test for Dependent Concordance
Correlation Coefficients—& John M. Williamson,
Centers for Disease Control and Prevention;
Hung-Mo Lin, The Pennsylvania State
University; Sara Crawford, The Rollins School of
Public Health of Emory University

11:55 a.m. Disc: Allan Donner, University of Western Ontario

12:15 p.m. Floor Discussion

◆ Themed Session ◆ Applied Session ◆ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

271 CC-602

● ② Extremes: Methods for Environmental and Meteorological Studies—Topic-Contributed

WNAR

Organizer(s): Daniel Cooley, Colorado State University Chair(s): Daniel Cooley, Colorado State University

10:35 a.m. How Good Are the Air Quality Standards?—Sofia Aberg, Lund University; Peter Guttorp, University of Washington

10:55 a.m. A Statistical Approach to North American Rainfall—❖ Jie Zhou, The University of North Carolina at Chapel Hill

11:15 a.m. Bayesian Hierarchical Modeling for Extreme Values in Spatio-Temporal Data— Huiyan Sang, Duke University; Alan E. Gelfand, Duke University

11:35 a.m. Predicting Extreme Hurricane Winds in the United States— & Thomas Jagger, Florida State University

11:55 a.m. Statistical Analysis of a POT Model with Time-Varying Extreme Parameters—& Marta Nogaj, Commission of Atomic Energy

12:15 p.m. Floor Discussion

272 CC-611

● ② Outcome-Dependent Sampling—Topic-Contributed

Section on Statistics in Epidemiology

Organizer(s): Jonathan Wakefield, University of Washington Chair(s): James Lynch, University of Nebraska Medical Center

10:35 a.m. The Combination of Ecological and Individual-Level Data—* Jonathan Wakefield, University of Washington; Sebastien Haneuse, Group Health Cooperative

11:15 a.m. The Optimal Ratio of Cases to Controls for Estimating the Classification Accuracy of a Biomarker—& Holly E. Janes, The Johns Hopkins University; Margaret S. Pepe, Fred Hutchinson Cancer Research Center/University of Washington

11:35 a.m. An Efficient Outcome-Dependent Sampling
Design for Longitudinal Binary Response
Data—* Jon Schildcrout, Vanderbilt University
Medical Center; Patrick Heagerty, University of
Washington

11:55 a.m. Disc: Patrick Heagerty, University of Washington

12:15 p.m. Floor Discussion

273 CC-201

The Transition from the Long Form to the American Community Survey: Findings from The National Academies Panel—Topic-Contributed

Section on Survey Research Methods

Organizer(s): Michael L. Cohen, Committee on National Statistics Chair(s): Michael L. Cohen, Committee on National Statistics

10:35 a.m. Functionality and Usability of Information from the American Community Survey—& Connie Citro, Committee on National Statistics; Graham Kalton, Westat; Michael L. Cohen, Committee on National Statistics

10:55 a.m. The ACS and the Data User Community—

* Joseph Salvo, New York City Department of
City Planning; Nancy Dunton, The University of
Kansas Medical Center; Charles Purvis, Oakland
Metro Transportation Commission

11:15 a.m. Methodological Issues in the ACS—& Graham Kalton, Westat; Tim Holt, Retired; Sharon Lohr, Arizona State University; Hal Stern, University of California, Irvine

11:35 a.m. Disc: Jay Waite, U.S. Census Bureau

11:55 a.m. Disc: Allen Schirm, Mathematica Policy Research, Inc.

12:15 p.m. Floor Discussion

274 CC-212

Student Paper Award Winners—Topic-Contributed

Section on Statistical Computing, Section on Statistical Graphics Organizer(s): Jose Pinheiro, Novartis Pharmaceuticals Corporation Chair(s): Jose Pinheiro, Novartis Pharmaceuticals Corporation

10:35 a.m. Efficient Computation and Variable Selection for the L1-Norm Quantile Regression—❖ Youjuan Li, University of Michigan; Ji Zhu, University of Michigan

10:55 a.m. An Algorithm for Regression of Scalars on Images—❖ Philip Reiss, Columbia University; R. Todd Ogden, Columbia University

11:15 a.m. Clustering with Confidence— Rebecca Nugent, University of Washington; Werner Stuetzle, University of Washington

11:35 a.m. Kernel Regularization and Dimension

Reduction—Fan Lu, University of Wisconsin-Madison; Grace Wahba, University of Wisconsin-Madison; Yi Lin, University of Wisconsin-Madison; Sunduz Keles, University of Wisconsin-Madison; Stephen J. Wright,

University of Wisconsin-Madison

11:55 a.m. Disc: Charles Roosen, Insightful Corporation

12:15 p.m. Floor Discussion

275 CC-205

Measuring and Improving Data Quality— Topic-Contributed

Section on Government Statistics

Organizer(s): Nancy M. Gordon, U.S. Census Bureau Chair(s): Nancy M. Gordon, U.S. Census Bureau

10:35 a.m. How Do We Know If We Aren't Looking? An

Investigation of Data Quality in the SCF— *Arthur Kennickell, Federal Reserve Board

10:55 a.m. An Economic Analysis of Survey Response

Quality-\$Julia Lane, National Opinion

Research Center; Leslie Athey, National Opinion Research Center; Suzanne Bard, National Opinion Research Center; Judith Petty, National

Opinion Research Center

11:15 a.m. Effects of Late-Stage Completions on Data

Quality— * Karen Grigorian, National Opinion Research Center; Thomas B. Hoffer, National Opinion Research Center; Ronald S. Fecso,

National Science Foundation

11:35 a.m. Disc: Cheryl R. Landman, U.S. Census Bureau

11:55 a.m. Floor Discussion

276 CC-608 High-Dimensional Modeling and Model Selection—Topic-Contributed

Section on Bayesian Statistical Science

Organizer(s): Christopher Hans, The Ohio State University

Chair(s): Herbert Lee, University of California, Santa Cruz

10:35 a.m. Priors for High-Dimensional Covariance

Models—♦ Charles Curry, University of California, Santa Cruz

ground-breaking

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Image: Protein crystals of consensus interferon

GENERAL PROGRAM SCHEDULE -

10:55 a.m. High-Dimensional Modeling and Model Selection— Carlos Carvalho, Duke University Sparsity in Linear Regression for High-11:15 a.m.

Dimensional Problems— Christopher Hans, The Ohio State University

11:35 a.m. A Bayesian Nonparametric Approach for **Expression Proteomic Analyses**— Leanna House, Duke University; Merlise Clyde, Duke University; Robert Wolpert, Duke University

Making Sense of Estimating Integrated 11:55 a.m. Likelihoods: Bridges, Paths, and Other Routes—

*Russell Steele, McGill University

12:15 p.m. Floor Discussion

277 **CC-615**

☼ Topics in Function Estimation Using Isotonization and Smoothing Techniques— **Topic-Contributed**

IMS, Section on Nonparametric Statistics Organizer(s): Moulinath Banerjee, University of Michigan Chair(s): Jon A. Wellner, University of Washington

10:35 a.m. Nonparametric Density Estimation from Covariate Information—*Ryan Elmore, Colorado State University; Peter G. Hall, Australian National University; Vladimir Troynikov, Department of Primary Industries

Limiting Distribution of the NPMLE for Current 10:55 a.m. Status Data with Competing Risks—* Marloes Maathuis, University of Washington

Penalized Likelihood Ratio Method for the 11:15 a.m. Spiking Problem in Nonincreasing Density **Estimation**—**♦** Jayanta Pal, University of Michigan

Fractile Graphical Analysis with Multiple 11:35 a.m. **Covariates**— *Bodhisattva Sen, University of Michigan

Disc: Moulinath Banerjee, University of 11:55 a.m. Michigan

Floor Discussion 12:15 p.m.

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

278 **CC-203**

● Sample Survey Quality III—Contributed

Section on Survey Research Methods

Chair(s): David Dolson, Statistics Canada

10:35 a.m. An Evaluation of Methods To Compensate for Noncoverage of Phoneless Households Using Information on Interruptions in Telephone Service and Presence of Wireless Phones— *Meena Khare, National Center for Health Statistics; Sadeq Chowdhury, National Opinion Research Center; Kirk Wolter, National Opinion Research Center; Karen Wooten, National Immunization Program; Stephen Blumberg,

Using Record Linkage Techniques To Improve Online 10:50 a.m. Genealogical Research with Census Records— John Lawson, Brigham Young University

National Center for Health Statistics

11:05 a.m. **Integrating Culture Industries into Canada's** National Economic Surveys Program—❖ Mary March, Statistics Canada; Paddison Wong, Statistics Canada

11:20 a.m. The Internet Response Method: Impact on the **Canadian Census of Population Data**—**❖** Laurent Roy, Statistics Canada

Good Item or Bad: Can Latent Class Analysis 11:35 a.m. Tell? Examining the Effectiveness of the Latent Class Analysis Approach to Item Evaluation— Frauke Kreuter, University of Maryland; Roger Tourangeau, University of Maryland; Ting Yan, Institute for Social Research

11:50 a.m. Population Coverage in the National Survey on Drug Use and Health—Susan R. Hunter, RTI International; & Katherine B. Morton, RTI International; James Chromy, RTI International; Peilan C. Martin, RTI International

12:05 p.m. Floor Discussion

279 **CC-204**

Survey-Based Estimation III—Contributed

Section on Survey Research Methods

Chair(s): Bryan Sayer, Social & Scientific Systems, Inc.

10:35 a.m. New Cell Collapsing Strategies Based on **Collapsing Adjustment Factor**—* Jay J. Kim, National Center for Health Statistics; Richard Valliant, University of Michigan; Wenxing Zha, National Institutes of Health

- 10:50 a.m. Stratification for Radio Listening Estimation—

 *Richard Griffiths, Arbitron Inc.
- 11:05 a.m. Calculating Effect Sizes Using Survey Data—

 *Jun Liu, Research Triangle Institute
- 11:20 a.m. Estimation for Two-Phase Panel Surveys—

 * Jason Legg, Iowa State University; Wayne
 Fuller, Iowa State University; Sarah M. Nusser,
 Iowa State University
- 11:35 a.m. Evaluation of Collapsing Criteria in Sample
 Weighting—* Linda Tompkins, National Center
 for Health Statistics; Jay J. Kim, National Center
 for Health Statistics; Wenxing Zha, National
 Institutes of Health
- 11:50 a.m. A Pseudo-Empirical Likelihood Approach for Stratified Samples with Nonresponse—& Fang Fang, University of Wisconsin-Madison; Quan Hong, Eli Lilly and Company; Jun Shao, University of Wisconsin-Madison
- 12:05 p.m. Estimation Methods To Produce Preliminary
 Statistics in an Employment Survey— Anders
 Holmberg, Statistics Sweden; Natalie Jansson,
 Statistics Sweden; Martin Odencrants, Statistics
 Sweden

280 CC-3B Hot Topics in Sports—Contributed

Section on Statistics in Sports, Section on Statistical Education *Chair(s): Michael Anderson, Battelle*

- 10:35 a.m. A Compound Logistic Regression Model for Third Down Efficiency in the NFL—& Christopher Rigdon, Southern Illinois University; Steve Rigdon, Southern Illinois University
- 10:50 a.m. Using Spatial Analysis as a Coaching Tool in Ice Hockey—❖ Robin Lock, St. Lawrence University; Travis Gingras, St. Lawrence University; Chris Wells, St. Lawrence University; Michael Schuckers, St. Lawrence University
- **11:05 a.m. An Interesting Classroom Exercise**—❖ Laurence Robinson, Ohio Northern University
- 11:20 a.m. Identifying and Evaluating Contrarian Strategies for NCAA Tournament Pools—& Jarad Niemi,
 Duke University; Bradley P. Carlin, University of Minnesota; Jonathan Alexander, Duke University
- 11:35 a.m. Improved College Football Scheduling Using a Pseudo-Swiss System—❖ David Annis, Naval

Postgraduate School; Samuel Wu, University of Florida

- 11:50 a.m. Regression Modeling Using Multiple Sources
 To Detect Group-Level Differences in Pitching
 Performance—* Liam O'Brien, Colby College;
 Matthew Aschaffenburg, Colby College
- 12:05 p.m. A Cross-Country Comparison of Efficiency of Soccer-Betting Markets—*Ruud H. Koning, University of Groningen

281 CC-614

● ② Pedigree/Population Analyses—Contributed

Section on Statistics in Epidemiology, Biometrics Section, ENAR Chair(s): Jinbo Chen, University of Pennsylvania

- 10:35 a.m. Family-Based Liquid Association Analysis on Atherosclerosis in C3H/HeJ.ApoE-/- x C57BL/6J. ApoE-/- Cross—❖Tun-Hsiang Yang, University of California, Los Angeles; Ker-Chau Li, University of California, Los Angeles; Shinsheng Yuan, University of California, Los Angeles; Aldons J. Lusis, University of California, Los Angeles; Wei Sun, University of California, Los Angeles; Susanna Wang, University of California, Los Angeles
- 10:50 a.m. Evaluating the Impact of Family Structure on Estimating Genetic Association Parameters in Family Studies— Stefan Boehringer, National Cancer Institute; Ruth Pfeiffer, National Cancer Institute
- 11:05 a.m. Evaluation of Three Approaches To Correct for Ascertainment of Pedigrees for Random-Effects Cox Proportional Hazard Linkage Analysis—

 * Susan Slager, Mayo Clinic College of Medicine; Shannon K. McDonnell, Mayo Clinic College of Medicine; Vernon S. Pankratz, Mayo Clinic College of Medicine; Antje Hoering, Cancer Research and Biostatistics; Terry M. Therneau, Mayo Clinic College of Medicine; Mariza de Andrade, Mayo Clinic College of Medicine
- 11:20 a.m. A Probability Model for Recent Tb Transmissions in Genetic Clusters— Nong Shang, Centers for Disease Control and Prevention
- 11:35 a.m. Human Population Structure Detection via
 Multilocus Genotype Clustering— * Xiaoyi Gao,
 North Carolina State University; Bruce S. Weir,
 University of Washington
- 11:50 a.m. Testing for Familial Aggregation When the Population Size Is Known—*Yixin Fang, Columbia University

☼ Themed Session ● Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

12:05 p.m. A Study of an Allele-Sharing Statistic on Extended Pedigrees— Saonli Basu, University of Minnesota

282 CC-613

◆ ② Disease Modeling: Theory and Applications—Contributed

Section on Statistics in Epidemiology, Biometrics Section, ENAR *Chair(s): Eric Siegel, University of Arkansas for Medical Sciences*

- 10:35 a.m. Model Choice in Time Series Studies of Air
 Pollution and Mortality—❖ Roger Peng, The
 Johns Hopkins University; Francesca Dominici,
 The Johns Hopkins University; Thomas A. Louis,
 The Johns Hopkins University
- 10:50 a.m. A Generalized Threshold Mixed Model for Analyzing Non-Normal Nonlinear Time Series:

 Plague in Kazakhstan as an Illustration—

 Noelle I. Samia, The University of Iowa; Kung-Sik Chan, The University of Iowa; Nils C. Stenseth, The University of Oslo
- 11:05 a.m. Statistical Determination of the Length of Quarantine Periods in an Epidemic— *Xiaojun You, The Johns Hopkins University
- 11:20 a.m. Bayesian Analysis of the 1918 Influenza
 Pandemic in Baltimore, MD—& Yue Yin, The
 Johns Hopkins University
- 11:35 a.m. Changes in Infant Mortality by Socioeconomic Status: U.S. Residents, 1995–2000—❖ Jay H. Kim, Centers for Disease Control and Prevention; Joe Fred Gonzalez, Jr., National Center for Health Statistics; Paul D. Williams, National Center for Health Statistics
- 11:50 a.m. BMI, Race, and Prostate Cancer—❖ Negasi Beyene, National Center for Health Statistics
- 12:05 p.m. Standardized Risk and Description of Results from Multivariable Modeling of a Binary Response—Bong-Rae Kim, University of Florida; *Randy L. Carter, University at Buffalo; P. V. Rao, University of Florida

283 CC-401

Portfolios and Derivations—Contributed

Business and Economics Statistics Section

Chair(s): Paul Shaman, University of Pennsylvania

10:35 a.m. Mimicking Portfolios with Conditioning Information—*Andrew Siegel, University of Washington

- 10:50 a.m. Population Segmentation for Portfolio Strategies—* Timothy H. Lee; Otto Schwalb
- 11:05 a.m. Synthesis-Efficient Portfolio of Investment
 Projects—* Alex Fedorov, Novosibirsk
 State Technical University; Dmitri Shubin,
 Novosibirsk State Technical University; Anatoly
 Naumov, Novosibirsk State Technical University
- 11:20 a.m. Assessing the Effects of Variability in Interest Rate Derivative Pricing—*Michael Crotty, North Carolina State University; Peter Bloomfield, North Carolina State University
- 11:35 a.m. Structural Models of Corporate Bond Yields by Nonconvex Penalized Least Squares—& Yuejiao Ma, The Pennsylvania State University
- 11:50 a.m. Toward Identification of Shocks in State-Space Models: Application to Stochastic Volatility—

 Nour Meddahi, Montréal University; Stéphane Gregoir, CREST/INSEE
- 12:05 p.m. Estimating the Commonality in Volatility-Volume Relationship—❖ Lei Zhang, Syracuse University; Raja Velu, Syracuse University; Tze Leung Lai, Stanford University; Haipeng Xing, Columbia University

284 CC-606

Preclinical Design and Analysis—Contributed

Biopharmaceutical Section, ENAR

Chair(s): Kannan Natarajan, Novartis Pharmaceuticals Corporation

- 10:35 a.m. Some Results Concerning Multiplicities in Animal Carcinogenicity Studies—❖ Mohammad Rahman, U.S. Food and Drug Administration; Karl Lin, U.S. Food and Drug Administration
- 10:50 a.m. Predictive Fingerprint Modeling in Systems
 Biology— Lei Zhu, GlaxoSmithKline;
 Daniel Parks, GlaxoSmithKline; Xiwu Lin,
 GlaxoSmithKline; Kwan Lee, GlaxoSmithKline;
 Amit Bhattacharyya, GlaxoSmithKline; Edit
 Kurali, GlaxoSmithKline; Amber Anderson,
 GlaxoSmithKline; Dilip Rajagopalan,
 GlaxoSmithKline
- 11:05 a.m. Evaluation of a Novel Metric for Quality Control in an RNA Interference High-Throughput Assay—

 *Xiaohua Zhang, Merck Research Laboratories; Namjin Chung, Merck Research Laboratories; Amy Espeseth, Merck Research Laboratories; Marc Ferrer, Merck Research Laboratories

11:20 a.m.	On Methods To Utilize HIV-RNA Data Measured
	by Two PCR Assays—*Joshua Chen, Merck &
	Co., Inc.; Chunpeng Fan, University of Wisconsin-
	Madison; Jing Zhao, Merck & Co., Inc.

- 11:35 a.m. Consideration of Parallel-Line and Logistic Models for Potency Estimation—&Bill Pikounis, Centocor R&D, Inc.; Ken Goldberg, Centocor R&D, Inc.
- 11:50 a.m. A Linear Model Approach To Detect Outliers in Quantitative PCR—* Michael Man, Pfizer Inc.

285 CC-612

Sample Size—Contributed

Biopharmaceutical Section

Chair(s): Tom Kelleher, Bristol-Myers Squibb Company

- 10:35 a.m. Sample Size Considerations in Noninferiority
 Trials—❖ Qi Jiang, Amgen Inc.; Steven Snapinn,
 Amgen Inc.
- 10:50 a.m. Determining Sample Size for Proportions When the Information on a Prognostic Factor Is Unavailable—*Bong S. Kim, Neumann College
- 11:05 a.m. Sample Size Re-estimation in a Dose-Response Study— & Kazuhiko Kuribayashi, Pfizer Inc.; Mike D. Smith, Pfizer Inc.
- 11:20 a.m. Sample-Size Estimation for Repeated Measures
 Analysis in Randomized Clinical Trials with
 Missing Data—Kaifeng Lu, Merck & Co., Inc.;
 Xiaohui Luo, Merck & Co., Inc.; Pei-Yun Chen,
 Merck & Co., Inc.
- 11:35 a.m. Sample-Size Calculations in Logistic Regression:
 Comments on Hsieh, Bloch, and Larsen's
 Method—& Mohammed K. Alam, University of
 Cincinnati; Marepalli Rao, University of Cincinnati;
 Rupa Mitra, Minnesota State University
- 11:50 a.m. Extracting Information from an Ongoing Blinded
 Trial—❖ Jitendra Ganju, BiostatWorks
- 12:05 p.m. Floor Discussion

286 CC-619

Clinical Trial and Microarray Design— Contributed

Biometrics Section, ENAR

Chair(s): Daniel Sargent, Mayo Clinic College of Medicine

10:35 a.m. Adaptive Design on Adjusting Sample Size without Inflating Type I Error—* Jialu Zhang,

U.S. Food and Drug Administration; John Lawrence, U.S. Food and Drug Administration

- 11:20 a.m. Use of Hadamard Matrices in Designs for Two-Color Factorial Microarray Experiments—❖Yu Ding, Temple University; Damaraju Raghavarao, Temple University
- 11:35 a.m. Minimax Estimation of Means in Large-Scale Experiments— Tiejun Tong, Yale University; Liang Chen, Yale University; Hongyu Zhao, Yale University
- 11:50 a.m. Tradeoffs between Power and 'Confounding' in a Small Microarray Experiment—❖ Mary Putt, University of Pennsylvania; Thomas Cappola, University of Pennsylvania
- 12:05 p.m. Likelihood Inference for Survival Analysis in Two-Stage Randomization Designs—* Abdus Wahed, University of Pittsburgh

287 CC-618

Statistical Methods in Assays and Cell Line Experiments—Contributed

Biometrics Section, ENAR

Chair(s): Jayawant Mandrekar, Mayo Clinic College of Medicine

- 10:35 a.m. Evaluation Parallelism Testing Methods in Immunoassay—* Lanju Zhang, MedImmune, Inc.; Harry Yang, MedImmune, Inc.; Iksung Cho, MedImmune, Inc.
- 10:50 a.m. Censored Poisson Regression with Normal Random Effects with an Application to a Dilution Assay—* Jorge Quiroz, Wyeth Research; Jeffrey R. Wilson, Arizona State University
- 11:05 a.m. LD50/IC50 Estimation for in vitro Cytotoxicity—

 *Wenquan Wang, The University of Alabama at Birmingham
- 11:20 a.m. Application of Pharmacokinetic Modeling To Guide Clinical Sample Testing—& Andrew Chen, MedImmune, Inc.; Harry Yang, MedImmune, Inc.; Lanju Zhang, MedImmune, Inc.; Iksung Cho, MedImmune, Inc.; Ed O'Connor, MedImmune, Inc.

② Themed Session ● Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

- 11:35 a.m. Error Variance Estimation with Few Replicates in Cell Line Experiments— David Jarjoura, The Ohio State University; Soledad Fernandez, The Ohio State University; Keding Hua, The Ohio State University
- 11:50 a.m. Theoretical Relationship between Direct and Indirect Potency Assays for Biological Product of Live Virus—* Harry Yang, MedImmune, Inc.; Iksung Cho, MedImmune, Inc.
- 12:05 p.m. Floor Discussion

288 CC-620

Analysis of Imaging and Spatial Data— Contributed

Biometrics Section, ENAR

Chair(s): Diana Miglioretti, Group Health Cooperative

- 10:35 a.m. Applications of Copulas To Improve Covariance Estimation for PLS—& Gina D'Angelo, University of Pittsburgh; Lisa Weissfeld, University of Pittsburgh; Scott Ziolko, University of Pittsburgh; Chester Mathis, University of Pittsburgh; William Klunk, University of Pittsburgh; Steven DeKosky, University of Pittsburgh; Julie Price, University of Pittsburgh
- 10:50 a.m. Establishing the Utility of MRI Parameters in Predicting Disease Activity in RRMS Patients Using GMDM— Welfredo R. Patungan, University of the Philippines; Daniel Bonzo, Serono, Inc.
- 11:05 a.m. Application of Randomized Singular Value
 Decomposition Techniques to the Analysis of
 Imaging Data Using Partial Least Squares—
 Scott Ziolko, University of Pittsburgh; Lisa
 Weissfeld, University of Pittsburgh; Chester
 Mathis, University of Pittsburgh; William Klunk,
 University of Pittsburgh; Steven DeKosky,
 University of Pittsburgh; Julie Price, University of
 Pittsburgh
- 11:20 a.m. A Comparison of Different Methods for Identifying Outliers in MRS Data— Sandra B. Hall, The University of Kansas Medical Center; Mihai Popescu, The University of Kansas Medical Center; Anda Popescu, The University of Kansas Medical Center; Niaman Nazir, The University of Kansas Medical Center; Thomas Malone, The University of Kansas Medical Center; Robin Aupperle, The University of Kansas Medical Center; Allan Schmitt, The

University of Kansas Medical Center; JoAnn Lierman, The University of Kansas Medical Center; William M. Brooks, The University of Kansas Medical Center

- 11:35 a.m. A Central Limit Theorem for High-Dimensional Spatially Correlated Processes— Danielle Harvey, University of California, Davis; Qian Weng, University of California, Davis; Evan Fletcher, University of California, Davis; Charles DeCarli, University of California, Davis; Laurel Beckett, University of California, Davis
- 11:50 a.m. Image Analysis by Spatial Point Process
 Modeling in Irregular Area— * Weimin Zhang,
 Texas A&M University; Suojin Wang, Texas
 A&M University
- 12:05 p.m. Identifying Risk Factors for Encephalitis from West Nile Virus Infection Using Scan Statistics—

 Sarah Baraniuk, The University of Texas School of Public Health; Kristy Lillibridge, The University of Texas School of Public Health

289 CC-213
Robust Methods—Contributed

Section on Statistical Computing

Chair(s): H. N. Nagaraja, The Ohio State University

- 10:35 a.m. On Weighted Least Squares for Missing Data—

 *Sergey Tarima, Medical College of Wisconsin
- 10:50 a.m. Testing Equality of Covariance Matrices When Data Are Incomplete—❖ Mortaza Jamshidian, California State University, Fullerton; James Schott, University of Central Florida
- 11:05 a.m. Robust Diagnostics for Multivariate Mixed
 Continuous and Categorical Data— Tsung-Chi
 Cheng, National Chengchi University; Atanu
 Biswas, Indian Statistical Institute
- 11:20 a.m. A Markov Chain Monte Carlo Approach for Finding the Minimum Volume Ellipsoid—

 *J. Brian Gray, The University of Alabama; Eric B. Howington, Coastal Carolina University
- 11:35 a.m. Clustering of Outlier Structure Using Minimal Spanning Tree Rankings and Minimum Volume Ellipsoids—& Mark W. Lukens, George Mason University; James Gentle, George Mason University
- 11:50 a.m. Spanning Trees as Data Analysis Tools—❖ Adam Petrie, Rensselaer Polytechnic Institute; Thomas R. Willemain, Rensselaer Polytechnic Institute

12:05 p.m. A Nonparametric Approach to Descriptive
Measures of Multivariate Massive Data Based on
Convex Hull Peeling Depth— Hyunsook Lee,
The Pennsylvania State University

290 CC-605

Analysis of Factorial Experiments— Contributed

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

Chair(s): Christopher Malone, Winona State University

- 10:35 a.m. Iterative Stepdown Tests: Analysis of Orthogonal Saturated Factorial Designs—* Daniel Voss, Wright State University
- 10:50 a.m. Error Sum of Squares Comparison for Model Search, Identification, and Discrimination—
 *Hongjie Deng, University of California, Riverside; Subir Ghosh, University of California, Riverside
- 11:05 a.m. Power Comparisons for Model Search,
 Identification, and Discrimination—* Ying Luan,
 University of California, Riverside; Subir Ghosh,
 University of California, Riverside
- 11:20 a.m. A Comparison of Three Approaches to Modeling a Multivariate Response in a Designed Experiment— Steven LaLonde, Rochester Institute of Technology; Peter Bajorski, Rochester Institute of Technology
- 11:35 a.m. Bayesian Analysis of Split Plot Failure
 Amplification Experiments— Oksoun Yee,
 Schering-Plough Corporation; Robert W. Mee,
 University of Tennessee
- 11:50 a.m. Deriving Optimal Conditions for Large-Scale
 Controlled Synthesis of Nanostructures Using
 Statistical Methods— Tirthankar Dasgupta,
 Georgia Institute of Technology; Christopher
 Ma, Georgia Institute of Technology; Roshan J.
 Vengazhiyil, Georgia Institute of Technology;
 Zhong L. Wang, Georgia Institute of Technology;
 C. F. Jeff Wu, Georgia Institute of Technology
- 12:05 p.m. Application of Two-Level Unreplicated Factorial Designs in Agricultural Field Experiments—

 * Tessema Astatkie, Nova Scotia Agricultural College

291 CC-214

Spline-Based Methods—Contributed

Section on Nonparametric Statistics, Biometrics Section *Chair(s): Dongfeng Wu, Mississippi State University*

- 10:35 a.m. Log-Density Functional ANOVA Model Estimation and Nonparametric Graphical Model Building—

 *Yongho Jeon, University of Wisconsin-Madison
- 11:05 a.m. Efficient Polynomial Spline Estimation of Partially Linear Models for Clustered Data—
 Lan Xue, Oregon State University; Li Wang, Oregon State University; Lijian Yang, Michigan State University
- **11:20 a.m. Shape-Restricted Spline Regression**—**♦** Xiao Wang, University of Maryland Baltimore County
- 11:35 a.m. Smoothing Spline Estimation for Skew-Symmetric Density Function— Sheng-Mao Chang, North Carolina State University; Hao Zhang, North Carolina State University
- 11:50 a.m. Multivariate Time-Dependent Spectral Analysis
 Using Cholesky—& Ming Dai, The University of
 North Carolina at Charlotte; Wensheng Guo,
 University of Pennsylvania
- 12:05 p.m. Bivariate Binomial Spatial Modeling of Loa Loa Prevalence in Tropical Africa— Ciprian M. Crainiceanu, The Johns Hopkins University; Peter Diggle, University of Lancaster; Barry Rowlingson, University of Lancaster

292 CC-610

The Interface of Bayesian and Frequentist Methods—Contributed

Section on Bayesian Statistical Science
Chair(s): Qingzhao Yu, The Ohio State University

- 10:35 a.m. Admissibility and Minimaxity of Generalized
 Bayes Estimators for Spherically Symmetric
 Family—* Yuzo Maruyama, University of Tokyo;
 Akimichi Takemura, University of Tokyo
- 10:50 a.m. Adjusting Frequentist Results for Previous Information by Combining Prior and Objective Posterior Distributions—& David Bickel, Pioneer Hi-Bred International, Inc.

GENERAL PROGRAM SCHEDULE-

☼ Themed Session ● Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle 5-Sheraton Seattle Hotel & Towers

- 11:05 a.m. Relationships between Frequentist and Bayesian Prediction Limits of the Poisson Process:

 Noninformative Priors— Valbona Bejleri,
 University of District of Columbia
- 11:20 a.m. Reconciling Bayesian and Frequentist Evidence in the One-Sided Scale Parameter Testing

 Problem—* Athanasios Micheas, University of Missouri-Columbia; Dipak Dey, University of Connecticut
- 11:35 a.m. Combining Bootstrap and Bayesian Inferences—
 *Yan Zhou, University of Michigan
- 12:05 p.m. Floor Discussion

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

293 CC-Level 6 East Lobby Contributed Posters—Contributed

General Methodology, WNAR, Biometrics Section, Biopharmaceutical Section, Section on Statistics and the Environment, Section on Survey Research Methods

Organizer(s): Maura E. Stokes, SAS Institute, Inc. Chair(s): Maura E. Stokes, SAS Institute, Inc.

Genetics, bioinformatics, computational biology

- 01 Sample Size and Power Calculations in Case-Control Designs for Detecting Gene-Environment Interaction in the Presence of Environmental Correlation—*Amy Murphy, Harvard School of Public Health; Peter Kraft, Harvard University
- 02 Examining the Multiple Dye-Swap Design for Efficient and Effective Microarray Studies— Theresa Kim, University of Washington
- Using the Maximum Cross-Correlation Statistic
 To Find Significant Voxel-Wise Activations in fMRI
 Experiments— Kinfemichael Gedif, Southern
 Methodist University; Richard F. Gunst, Southern
 Methodist University; Qihua Lin, Southern Methodist
 University; William R. Schucany, Southern Methodist
 University
- 04 **Predict Gene Expression Using Logistic Regression***Lei Guo, Harvard University; Yuan Yuan, Harvard

- University; Lei Shen, GlaxoSmithKline; Jun Liu, Harvard University
- O5 A Nonparametric Method of Background Correction for Microarray Data Analysis—*Zhongxue Chen, Southern Methodist University; Monnie McGee, Southern Methodist University; Richard Scheuermann, The University of Texas Southwestern Medical Center at Dallas
- Of A Case Study for Finding Condition-Specific cis-Regulatory Motifs and Modules in the Mouse Genome—vDongseok Choi, Oregon Health & Science University; Yuan Fang, Oregon Health & Science University; William Mathers, Oregon Health & Science University
- O7 Identifying Responder Cells in High-Content Imaging—
 Shuguang Huang, Eli Lilly and Company; Adeline
 Yeo, Eli Lilly and Company
- 08 Simulation Study Investigating Nonrandom
 Recombination Events on Single Point LOD Scores—
 * Derek Blankenship, The University of Oklahoma
 Health Sciences Center
- 09 A Method for Computing the Overall Statistical
 Significance of a Treatment Effect among a Group
 of Genes—& Taewon Lee, National Center for
 Toxicological Research; Robert Delongchamp, National
 Center for Toxicological Research; Cruz Velasco,
 Louisiana State University Health Sciences Center
- An Alternative Approach To Estimate Averages in Affymetrix Chips— William R. Schucany, Southern Methodist University; Md. Jobayer Hossain, Southern Methodist University; Julia V. Kozlitina, Southern Methodist University; Kinfemichael Gedif, Southern Methodist University
- 11 Near-Infrared (NIR) Spectroscopy Coupled with
 Molecular Marker Data as a Tool for Gene Discovery—
 * Mervyn Marasinghe, Iowa State University; Paul
 Scott, Iowa State University/USDA-ARS

Sampling and survey methodology

- 12 A Matrix Approach for Comparing Estimates of a Population Total under a Many-to-Many Frame Structure—Martin Levy, University of Cincinnati; * ZhiYuan Dong, University of Cincinnati
- Comparison of Alternatives for Controlling Group
 Quarters Person Estimates in the American Community
 Survey—& Lynn Weidman, U.S. Census Bureau;
 Michael Ikeda, U.S. Census Bureau; Julie Tsay, U.S.
 Census Bureau

- 14 American Community Survey (ACS) Variance Reduction of Small Areas via Coverage Adjustment Using an Administrative Records Match—& Donald Malec, U.S. Census Bureau; Elizabeth Huang, U.S. Census Bureau; Jerry J. Maples, U.S. Census Bureau; Lynn Weidman, U.S. Census Bureau
- 15 A Comparison of Strategies for Reducing Item
 Nonresponse in a Web Survey—* Jeffrey Kerwin,
 Westat; Kerry Levin, Westat; Andrew Wang, National
 Institute of Standards and Technology; Stephen
 Campbell, National Institute of Standards and
 Technology; Stephanie Shipp, National Institute of
 Standards and Technology
- 16 Estimating Variance of Double Sampling Using
 Jackknife and Bootstrap Methods—& Jing Wang, Sam
 Houston State University; Ferry Butar Butar, Sam
 Houston State University

Speaker Luncheon 12:30 p.m.-1:50 p.m.

294 CC-4C-1

Business and Economics Statistics Section Speaker with Lunch (fee event)—Speaker with Lunch

Business and Economics Statistics Section

Organizer(s): Paul Shaman, University of Pennsylvania

TL08 Housing Correction or Crash—*Mark McMullen, Moody's Economy.com

Roundtables with Lunch 12:30 p.m.-1:50 p.m.

295 CC-4C-2

Section on Bayesian Statistical Science Roundtable with Lunch (fee event)

Section on Bayesian Statistical Science

Organizer(s): Merlise Clyde, Duke University

TL09 Objective Bayes Model Selection— * M. J. Bayarri, University of Valencia

296 CC-4C-2 Biopharmaceutical Section Roundtables with

Lunch (fee event)Biopharmaceutical Section

Organizer(s): Amit Bhattacharyya, GlaxoSmithKIine

- TL10 Contemporary Issues in Data Monitoring Committees—
 * David Kerr, Axio Research
- TL11 Controlling Error Rate in Safety Assessments from a Regulatory Perspective—* Qian Li, U.S. Food and Drug Administration
- TL12 The Use of Targeted Designs in Clinical Trials— & Gerald Crans, Eli Lilly and Company; Matthew Rotelli, Eli Lilly and Company
- TL13 Statistical Concerns and Methodology Regarding Cognitive and Psychomotor Endpoints in Early Development (Phase I Trials)—& Cynthia Gargano, Merck & Co., Inc.
- TL14 Preferred Methods of Dealing with Missing Data in Clinical Trials—*Rukmini Rajagopalan, Abbott Laboratories
- TL15 Decision Rules Based on Multiple Endpoints in Clinical Trials—* Alex Dmitrienko, Eli Lilly and Company
- TL16 Patient-Reported Outcomes: Issues Related to the Collection and Analysis, Including Measurement Reliability and Sensitivity—* Tammy J. Massie, U.S. Food and Drug Administration
- TL17 Statistician's Role in PK/PD Modeling and Clinical Trial Simulation—& Haiyuan Zhu, Merck Research Laboratories
- TL18 Retrospective Testing for Baseline Variables Comparability and Subsequent Covariate Adjustments for Significant Imbalance: Good Clinical Practice or Bad Statistical Practice?— Abdul Sankoh, sanofi-aventis
- TL19 Statistical Issues Regarding Experimental Medicine—
 * James Bolognese, Merck Research Laboratories
- TL20 Bayesian Dose-Finding Strategies for Phase I Oncology Trials—&Glen Laird, Novartis Pharmaceuticals Corporation
- TL21 On the Evaluation of Benefit and Risk: the Tools We Have and How They Help—* Yili Pritchett, Abbott Laboratories
- TL22 Use of Adaptive Clinical Trial Designs in Clinical Development for Product Registration—* Laura Meyerson, Biogen Idec

② Themed Session ● Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

297 CC-4C-3 Section on Statistical Consulting Roundtable with Lunch (fee event)

Section on Statistical Consulting

Organizer(s): Todd Nick, Cincinnati Children's Hospital Medical Center

TL23 Extreme Consulting: a Novel Method of Improving Efficiency of Biostatistical Analysis—& Daniel Byrne, Vanderbilt University

298 CC-4C-3

Section on Statisticians in Defense and National Security Roundtable with Lunch (fee event)

Section on Statisticians in Defense and National Security Organizer(s): Lara S. Schmidt, RAND Corporation

TL24 Epidemiology and Education: Using Public Health and National Security in Statistics Education—& Henry Rolka, Centers for Disease Control and Prevention; Donna Stroup, Centers for Disease Control and Prevention

299 CC-4C-3

Section on Statistical Education Roundtables with Lunch (fee event)

Section on Statistical Education

Organizer(s): Patti Collings, Brigham Young University

TL25 Using Technology in the Classroom and for Distance Education— Michael Speed, Texas A&M University

TL26 Teaching Introductory Statistics with (All) Sports
Examples—*Robin Lock, St. Lawrence University

300 CC-4C-3

Section on Statistics in Epidemiology Roundtable with Lunch (fee event)

Section on Statistics in Epidemiology

Organizer(s): Jennifer Clark Nelson, Group Health Cooperative

TL27 Design and Analytic Challenges of Conducting Biomedical Research with Older Populations: Steps Toward a Gerontologic Biostatistics—& Peter H. Van Ness, Yale University; Heather G. Allore, Yale University

301 CC-4C-3

Section on Government Statistics Roundtables with Lunch (fee event)

Section on Government Statistics, Section on Health Policy Statistics, Committee on Gay and Lesbian Concerns in Statistics

Organizer(s): Roberta Sangster, Bureau of Labor Statistics

TL28 Including Sexual Orientation Questions in Surveys: Issues and Approaches— Sarah Boslaugh, Washington University in St. Louis

TL29 ASA and Volunteerism: New Special-Interest Group— *Roberta Sangster, Bureau of Labor Statistics

302 CC-4C-3

Section on Statistical Graphics Roundtable with Lunch (fee event)

Section on Statistical Graphics

Organizer(s): Simon Urbanek, AT&T Labs-Research

TL30 Are Graphics/Interactive Graphics Useful for Getting Your Work Done?— Matthias Schonlau, RAND Corporation; Martin Theus, University of Augsburg

303 CC-4C-3

Section on Health Policy Statistics Roundtables with Lunch (fee event)

Section on Health Policy Statistics

Organizer(s): Bonnie Ghosh-Dastidar, RAND Corporation

TL31 The Role of Prescription Drugs in Health and Disability—

*Michele Connolly, U.S. Social Security Administration

304 CC-4C-3

Section on Physical and Engineering Sciences Roundtable with Lunch (fee event)

Section on Physical and Engineering Sciences

Organizer(s): Winson Taam, The Boeing Company

TL33 What's the Difference between Collaborative Research and Consulting?— Roger W. Hoerl, GE Global Research

305 CC-4C-3

Section on Quality and Productivity Roundtable with Lunch (fee event)

Section on Quality and Productivity

Organizer(s): William R. Myers, Procter & Gamble

TL34 Graphical and Numeric Approaches to Selecting Effects in Two-Level Factorial Models—*Wayne Adams, Stat-Ease

American Statistical Association

Presidential Address & Awards Session

Sallie Keller-McNulty, ASA President Tuesday, August 8, 2006, 8:00 p.m. Washington State Convention & Trade Center, Ballroom 6ABC



Is your associate, professor, student, colleague, friend, or organization being recognized at the Joint Statistical Meetings in Seattle?



Samuel S. Wilks Memorial Award



Edward C. Bryant Scholarship



Gertrude M. Cox Scholarship



Gottfried E. Noether Awards



W. J. Youden Award in Lab Testing

- ★ Statistics in Chemistry Award
- ★ ASA Fellows
- ★ Founders Award
- ★ Outstanding Statistical Application Award
- ★ Statistical Partnerships among Academe, Industry, and Government (SPAIG) Award

Plan to attend the ASA Presidential Address and Awards Session for the recognition of the ASA's most distinguished members.

○ Themed Session ◆ Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

306 **CC-4C-3**

Section on Survey Research Methods Roundtables with Lunch (fee event)

Section on Survey Research Methods

Organizer(s): Steven G. Heeringa, University of Michigan

Sharing Frame Information To Improve Coverage and TL35 Reduce Cost and Duplication of Effort— Paula Weir, **Energy Information Administration**

TL36 Bayesian Inference for Complex Sample Surveys— *Roderick J. Little, University of Michigan

307 CC-4C-3

Social Statistics Section Roundtable with Lunch (fee event)

Social Statistics Section

Organizer(s): Allen Schirm, Mathematica Policy Research, Inc.

Telephone Surveys: Where Do We Go from Here?— Clyde Tucker, Bureau of Labor Statistics

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

CC-400 308

ASA Stat Bowl Session 2—Other

The ASA, ENAR, IMS, SSC, WNAR

Organizer(s): Mark Payton, Oklahoma State University

Chair(s): Mark Payton, Oklahoma State University

Round 2— * Winners from Session 1, Six players will advance from Round 1 to Round 2

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

CC-3A 309

• Modern Statistics at Land Grant Institutions: **Memorial Session for Holly Fryer—Invited**

Memorial, Section on Statistical Education

Organizer(s): Thomas M. Loughin, Kansas State University Chair(s): Thomas M. Loughin, Kansas State University

2:05 p.m. The Life and Times of Holly Fryer—❖ John E.

Boyer, Kansas State University

Recent Developments on Multiplicative 2:30 p.m.

Interaction Models— Dallas E. Johnson, Kansas

State University

Estimating Genetic Relatedness— *Bruce S. 2:55 p.m.

Weir, University of Washington

Signals and Noises: Statistical Models Based on 3:20 p.m.

> Fundamental Tenets of the Environmental and Ecological Sciences—*Mark S. Kaiser, Iowa

State University

Floor Discussion 3:45 p.m.

310 **CC-602**

Recent Advances in Resampling Methods for Complex Data Structures—Invited

Section on Nonparametric Statistics

Organizer(s): Soumendra N. Lahiri, Iowa State University

Chair(s): Shuxia Sun, Wright State University

2:05 p.m. A Nonparametric Plug-in Rule for Smoothing

Parameter Selection— Soumendra N. Lahiri,

Iowa State University

A Blockwise Empirical Likelihood for Spatial 2:30 p.m.

Data— Daniel J. Nordman, Iowa State

University

2:55 p.m. The Limit of Finite Sample Size and a Problem

with Subsampling—*Donald W. K. Andrews,

Yale University

Unit Root Testing via the Tapered Block 3:20 p.m.

> **Bootstrap**— Cameron Parker, University of San Diego; Dimitris Politis, University of California,

San Diego

Floor Discussion 3:45 p.m.

CC-606 311

◆ ○ Computational Challenges of Massive Datasets and Sources—Invited

Section on Statistical Computing, Section on Statisticians in Defense and National Security, Section on Statistical Graphics

Organizer(s): Karen Kafadar, University of Colorado Chair(s): Karen Kafadar, University of Colorado

Statistical and Computational Issues Associated 2:05 p.m.

with Massive Public Health Databases for **Detecting Adverse Events**— * Kathe E. Bjork, Colorado Department of Public Health and

Environment

Dimension Reduction of Large Datasets in the 2:35 p.m.

Atmospheric Sciences— Barbara A. Bailey,

University of Colorado

3:05 p.m. Automated Metadata—Edward Wegman,

George Mason University; & Faleh Alshameri,

George Mason University

Floor Discussion 3:35 p.m.

312 CC-4C-4

◆ Statistical Models in Evolutionary Biology— Invited

IMS, Biometrics Section, WNAR

Organizer(s): Christopher Genovese, Carnegie Mellon University Chair(s): Cecile Ane, University of Wisconsin-Madison

2:05 p.m. Introductory Discussion— Christopher Genovese, Carnegie Mellon University

2:25 p.m. Mathematical Models of Speciation— Sergey Gavrilets, University of Tennessee

3:05 p.m. Fitness Value of Information—**♦** Carl Bergstrom,

University of Washington; Michael Lachmann, Max Planck Institute for Mathematics in the

Sciences

3:45 p.m. Floor Discussion

313 CC-611 Biometrics Editor Invited Session—Invited

ENAR, WNAR

Organizer(s): Xihong Lin, Harvard School of Public Health; Mike Kenward, University of London

Chair(s): Naisyin Wang, Texas A&M University

2:05 p.m. Are Flexible Designs Sound?—♦ Carl-Fredrik

Burman, AstraZeneca Pharmaceuticals; Christian Sonesson, AstraZeneca

Pharmaceuticals

2:45 p.m. Disc: Christopher Jennison, University of Bath

2:55 p.m. Disc: Michael Proschan, Biostatistics Research

Branch, NIAID

3:05 p.m. Disc: Peter Bauer, University of Vienna

3:15 p.m. Disc: Marianne Frisén, Göteborg University

3:25 p.m. Rejoiner(s): Carl-Fredrik Burman, AstraZeneca

Pharmaceuticals; Christian Sonesson,

AstraZeneca Pharmaceuticals

3:40 p.m. Floor Discussion

314 CC-607

● Challenges for Early Detection of Cancer Using Genomic or Proteomic Profiles—Invited

General Methodology, Biometrics Section, WNAR, ENAR Organizer(s): Larry G. Kessler, U.S. Food and Drug Administration Chair(s): Larry G. Kessler, U.S. Food and Drug Administration

2:05 p.m. Analytic Opportunities: Moving New Diagnostics to the Clinic— Robert Lipshutz, Affymetrix

2:35 p.m. Platforms for the Early Detection of Cancer—

Andrew Quong, Thomas Jefferson University

3:05 p.m. Comparing Adaptive and Nonadaptive

Algorithms for Cancer Early Detection with Novel Biomarker— Martin W. McIntosh, Fred

Hutchinson Cancer Research Center

3:35 p.m. Floor Discussion

315 CC-3B

● ② Statistical Careers in Government Agencies—Invited

Section on Government Statistics, Section on Statistical Education
Organizer(s): John L. Eltinge, Bureau of Labor Statistics
Chair(s): Carol C. House, National Agricultural Statistics Service

2:05 p.m. Growing Challenges Facing Federal Statisticians and Agencies— William G. Barron, Princeton

University

2:30 p.m. Recruitment, Training, and Retention of

Government Statisticians—**♦** Clyde Tucker,

Bureau of Labor Statistics

2:55 p.m. Meeting the Challenges of Science at the

Frontiers: Statistics in a Government Science
Agency— Nell Sedransk, National Institute of

Statistical Sciences

3:20 p.m. Disc: John L. Eltinge, Bureau of Labor Statistics

3:40 p.m. Floor Discussion

316 CC-203

Multilevel Modeling of Complex Survey Data—Invited

Section on Survey Research Methods, Section on Health Policy Statistics Organizer(s): Milorad Kovacevic, Statistics Canada Chair(s): David Binder, Statistical Society of Canada

2:05 p.m. Multilevel Modeling with Multistage Survey

Samples— & Tihomir Asparouhov, Muthén & Muthén; Bengt Muthen, University of California,

Los Angeles

2:30 p.m. Adjusting for Unequal Selection Probability in

Multilevel Models: a Comparison of Software Packages—* Kim Chantala, The University of North Carolina at Chapel Hill; C. M. Suchindran, The University of North Carolina at Chapel Hill

2:55 p.m. Bootstrapping for Variance Estimation in Multilevel

Models Fitted to Survey Data—& Milorad Kovacevic, Statistics Canada; Rong Huang, Statistics Canada; Yong You, Statistics Canada ☼ Themed Session ● Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

3:20 p.m. Disc: Michael Sverchkov, Bureau of Labor

Statistics/BAE Systems IT

3:40 p.m. Floor Discussion

317 CC-610

● む The Use of Quality Control Charts in Biosurveillance and Prospective Public Health Surveillance—Invited

Section on Statistics in Epidemiology, ENAR

Organizer(s): William H. Woodall, Virginia Polytechnic Institute and State University; J. Michael Hardin, The University of Alabama Chair(s): Landon Sego, Virginia Polytechnic Institute and State University

2:05 p.m. The Use of Control Charts in Health Care
Monitoring and Public Health Surveillance—
* William H. Woodall, Virginia Polytechnic
Institute and State University

2:30 p.m. Cumulative Sum Methods for Spatial Surveillance—
*Peter A. Rogerson, University of Buffalo

2:55 p.m. Performance of Residual-Based Control Charts
Using Generalized Exponential Smoothing
of Syndromic Data for Routine Health
Surveillance—& Howard S. Burkom, The Johns
Hopkins University Applied Physics Laboratory;
Galit Shmueli, University of Maryland; Sean
Murphy, The Johns Hopkins University Applied

Physics Laboratory

3:20 p.m. A Neural Network Approach to Control Charts with Applications to Health Surveillance— Benjamin M. Adams, The University of Alabama; Kidakan Saithanu, The University of Alabama; J. Michael Hardin, The University of Alabama

3:45 p.m. Floor Discussion

318 CC-401

• Technometrics Invited Session—Invited

Technometrics, Section on Physical and Engineering Sciences Organizer(s): Randy R. Sitter, Simon Fraser University Chair(s): Randy R. Sitter, Simon Fraser University

2:05 p.m. Simultaneous Variable Selection— Berwin A. Turlach, The University of Western Australia; William N. Venables, CSIRO Mathematical and Information Sciences; Stephen J. Wright, University of Wisconsin-Madison

2:55 p.m. A New Strategy for Variable Selection—Xiaohui Luo, Merck & Co., Inc.; Leonard A. Stefanski, North Carolina State University; & Dennis A. Boos, North Carolina State University

3:45 p.m. Floor Discussion

319 CC-617

● ❖ Statistical Challenges in Natural Resource Management—Invited

Section on Statistics and the Environment

Organizer(s): Estelle Russek-Cohen, U.S. Food and Drug Administration Chair(s): Gretchen Moisen, U.S. Forest Service

2:05 p.m. Bayesian Analysis of Animal Community
Structure—❖ Jeffrey A. Royle, U.S. Geological
Survey/Patuxent Wildlife Research Center

2:30 p.m. A Vision for Forest Inventory— Ronald E. McRoberts, U.S. Department of Agriculture

2:55 p.m. Challenges in Modeling Associations between Streams and Their Watersheds—* John Van Sickle, U.S. Environmental Protection Agency

3:20 p.m. What Is a Realistic Fisheries Stock Assessment Model?—❖ Terrance Quinn, University of Alaska

3:45 p.m. Floor Discussion

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

320 CC-613

Beyond Your Parents' Models: Latent Variables as You May Not Yet Have Thought of Them— Topic-Contributed

Biometrics Section, ENAR

Organizer(s): Karen Bandeen-Roche, The Johns Hopkins Bloomberg School of Public Health

Chair(s): Bradley P. Carlin, University of Minnesota

2:05 p.m. Latent Variable Mixture Modeling with Genetic Applications—& Bengt Muthen, University of California, Los Angeles

2:25 p.m. Latent Variable Modeling—❖ Katherine Masyn, University of California, Davis; Tihomir Asparouhov, Muthén & Muthén; Bengt Muthen, University of California, Los Angeles

2:45 p.m. Semiparametric Bayesian Structural Equation Models— David B. Dunson, National Institute of Environmental Health Sciences

3:05 p.m. Penalized Latent Class Regression: Incorporating Scientific Knowledge into Measurement Models—* Jeannie-Marie Sheppard, The Johns Hopkins Bloomberg School of Public Health; Karen Bandeen-Roche, The Johns Hopkins Bloomberg School of Public Health; Peter Zandi,

The Johns Hopkins Bloomberg School of Public Health; William Eaton, The Johns Hopkins Bloomberg School of Public Health

3:25 p.m. Principal Stratification Designs To Estimate
Outcomes Missing Due to Death—&Constantine
Frangakis, The Johns Hopkins Bloomberg School of

Public Health; Donald Rubin, Harvard University; Ming-Wen An, The Johns Hopkins University

3:45 p.m. Floor Discussion

321 CC-201

● ② Innovative Uses of the Survey of Income and Program Participation for Social Program Evaluation—Topic-Contributed

Social Statistics Section

Organizer(s): Carole L. Popoff, U.S. Census Bureau Chair(s): John Czajka, Mathematica Policy Research, Inc.

2:05 p.m. Assessing the Effect of Allocated Data on the Estimated Value of Total Household Income in

the Survey of Income and Program Participation
(SIRR) A Patricia Fish on LLS Congue Program

(SIPP)— Patricia Fisher, U.S. Census Bureau

2:25 p.m. Welfare Reform Revisited: Leavers and Cyclers—

How Are They Doing under the New Restrictive Time Limits?—& Carole L. Popoff, U.S. Census

Bureau; Qi Wang, U.S. Census Bureau

2:45 p.m. Assessing Estimates of Program Participation: an Analysis of Matched SIPP and Administrative

Data— Scott Cody, Mathematica Policy Research,

Inc.; Julie Sykes, Mathematica Policy Research, Inc.

3:05 p.m. Accounting for SIPP Design Effects: Testing Four

Approaches with the 2004 Panel— Arthur F. Jones, U.S. Census Bureau; Robert Nielsen, U.S. Census Bureau; Michael Davern, University of

Minnesota; John Boies, U.S. Census Bureau

3:25 p.m. Floor Discussion

322 CC-608 POC/Adaptive Design—Topic-Contributed

Biopharmaceutical Section

Organizer(s): James Bolognese, Merck Research Laboratories Chair(s): James Bolognese, Merck Research Laboratories

2:05 p.m. Impact of Pharmacometrics Reviews on Drug

Approval and Labeling Decisions— * Joga Gobburu, U.S. Food and Drug Administration

2:25 p.m. Adaptive by Design in Exploratory Development—

Brenda Gaydos, Eli Lilly and Company

2:45 p.m. Comparison of Bayesian and Frequentist Adaptive

Designs for Combination Proof-of-Concept/Dose
Response Modeling Trials in Phase II—* Nitin
Patel, Cytel Inc.; James Bolognese, Merck

Research Laboratories; Jerald Schindler, Cytel Inc.; Scott Berry, Berry Consultants; Yannis Jemiai, Cytel Inc.; Vipul Suru, Cytel Inc.

3:05 p.m. Bayesian Modeling of Safety Data Using

Databases of Placebo Patients—* Jose Pinheiro, Novartis Pharmaceuticals Corporation; Chyi-

Hung Hsu, Novartis Pharmaceuticals Corporation

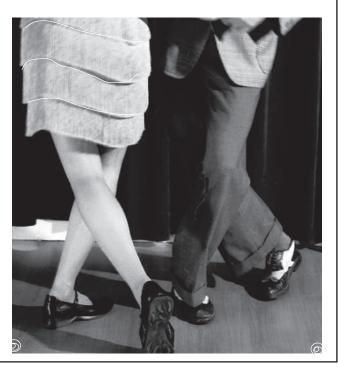
3:25 p.m. Disc: Sue-Jane Wang, U.S. Food and Drug

Administration

3:45 p.m. Floor Discussion

JSM INFORMAL DANCE PARTY

Tuesday, August 8, 9:30 p.m. – midnight CC-4C-3



Jeffrey L. Solka, Naval Surface Warfare Center; J.

The Johns Hopkins University

Naval Surface Warfare Center

Floor Discussion

W. Weller, George Mason University; Carey Priebe,

Network Traffic Profiling—❖ Patricia H. Carter,

Disc: John Rigsby, Naval Surface Warfare Center

☼ Themed Session ● Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

323 **CC-205** 325 CC-2B Quality Initiatives in Establishment Surveys— Spatial and Spatio-Temporal Bayesian **Topic-Contributed** Inference—Topic-Contributed Section on Survey Research Methods Section on Bayesian Statistical Science Organizer(s): Shawna Waugh, Energy Information Administration Organizer(s): Michele Guindani, M. D. Anderson Cancer Center Chair(s): Nicolas Hengartner, Los Alamos National Laboratory Chair(s): Christopher Carter, University of New South Wales 2:05 p.m. A Methodology for Evaluating Sufficiency of 2:05 p.m. Multivariate Spatial Modeling in Bayesian **Hierarchical Settings**—**♦** Sudipto Banerjee, **Survey Frames**— * Howard Bradsher-Fredrick, **Energy Information Administration** University of Minnesota 2:25 p.m. An Evaluation of the 2002 MECS Measure of 2:25 p.m. Flexible Spatial Modeling for Multivariate **Geological Data Using Convolved Covariance** Size— William Gifford, Energy Information Administration **Functions**— Anandamayee Majumdar, Arizona State University; Alan E. Gelfand, Duke University 2:45 p.m. Quality Issues in a Regulatory Data Collection **System**— Alan K. Jeeves, Bureau of 2:45 p.m. Gaussian Process Models for a Sphere with Application to Faraday Rotation Measures— **Transportation Statistics** Margaret Short, Los Alamos National 3:05 p.m. Disc: Eugene Burns, Bureau of Transportation Laboratory; Dave Higdon, Los Alamos National Statistics Laboratory; Philipp Kronberg, Los Alamos 3:25 p.m. Floor Discussion National Laboratory 3:05 p.m. A Comprehensive Spatial-Temporal Analysis of **CC-214** 324 Breast Cancer: First Primary, Second Primary, and Statistical Methods on Networks and **Breast Cancer Survival**— Song Zhang, M. D. **Graphs—Topic-Contributed** Anderson Cancer Center Section on Statisticians in Defense and National Security, Section on **Bayesian Nonparametric Mixture Modeling for** 3:25 p.m. Statistical Graphics **Spatial Processes**— Michele Guindani, Organizer(s): Patricia H. Carter, Naval Surface Warfare Center M. D. Anderson Cancer Center; Alan E. Gelfand, Chair(s): David Marchette, Naval Surface Warfare Center Duke University; Sonia Petrone, Università **Graphs for Streaming Text**— Elizabeth 2:05 p.m. Commerciale Luigi Bocconi Hohman, Naval Surface Warfare Center 3:45 p.m. Floor Discussion Graph Theoretic Methods for the Identification 2:25 p.m. of Article Associations—❖ Jeffrey L. Solka, Naval 326 **CC-604** Surface Warfare Center; Avory Bryant, Naval Least Angle Regression—Topic-Contributed Surface Warfare Center; Nicholas Tucey, Naval Section on Statistical Computing Surface Warfare Center Organizer(s): Tim C. Hesterberg, Insightful Corporation Anomaly Detection in Genetic Networks— 2:45 p.m. Chair(s): Trevor Hastie, Stanford University Christopher Overall, George Mason University;

2:05 p.m. New Methods and Software for Variable Selection in Regression—❖ Chris Fraley, Insightful Corporation; Tim C. Hesterberg, Insightful Corporation

2:25 p.m. Penalized Cox Regression Analysis in the High-Dimensional and Low Sample Size Settings with Application to Microarray Gene Expression Data—* Jiang Gui, University of Pennsylvania; Hongzhe Li, University of Pennsylvania

2:45 p.m. Grouped and Hierarchical Model Selection through Composite Absolute Penalties (CAPs)—

*Guilherme Rocha, University of California,

3:05 p.m.

3:25 p.m.

3:45 p.m.

	Berkeley; Peng Zhao, University of California, Berkeley; Bin Yu, University of California, Berkeley
3:05 p.m.	Determination of Regularization Parameter Using L-Curve by LARS-LASSO Algorithm— Leming Qu, Boise State University; Partha Routh, Boise State University
3:25 p.m. 3:45 p.m.	Disc: Greg Ridgeway, RAND Corporation Floor Discussion

327 CC-211

Proper Compensation for Statistical Consulting Services Provided in a University Setting— Topic-Contributed

Section on Statistical Consulting, Section on Statistical Education Organizer(s): H. Dean Johnson, Washington State University Chair(s): H. Dean Johnson, Washington State University

2:05 p.m. Successes (and Challenges) in Funding Campus Consulting Facilities— Murray Clayton, University of Wisconsin-Madison

2:25 p.m. An Overview of The Objec State University

2:25 p.m. An Overview of The Ohio State University
Statistical Consulting Service— Christopher
Holloman, The Ohio State University

2:45 p.m. Multiple Solutions to Funding Statistical Consulting within a University—& Linda Young, University of Florida

3:05 p.m. Compensation Is More Than Money: Life as an Internal Statistical Consultant in a Medical School—♦ Sarah Boslaugh, Washington University in St. Louis

Disc: Barbara Mann, Wright State University

3:45 p.m. Floor Discussion

3:25 p.m.

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

328 CC-612

● ② Approaches for Handling Missing Data and Measurement Issues—Contributed

Section on Statistics in Epidemiology, Biometrics Section

Chair(s): Betsy Gunnels, Centers for Disease Control and Prevention

2:05 p.m. Missingness Screens and Regression Modeling in Clinical Aging Research—* Peter H. Van Ness, Yale University

2:20 p.m. Deletion Approach To Handling Missing Data in Longitudinal Data—& Cuiling Wang, Albert Einstein College of Medicine; Myunghee C. Paik,

Columbia University

2:35 p.m. Impact of Missing Data on Building Prognostic Models and Summarizing Models across
Studies—*Mahtab Munshi, Takeda Global Research and Development Center; Daniel

McGee, Sr., Florida State University

2:50 p.m. Using Multiple Imputation To Improve Race-Specific Disease Rate Reporting in a National Active Surveillance System—& Elizabeth R. Zell, Centers for Disease Control and Prevention

3:05 p.m. Efficacy Studies of Malaria Treatments in Africa: Efficient Estimation with Missing Indicators of Failure—*Rhoderick Machekano, University of California, Berkeley; Alan Hubbard, University of California, Berkeley

3:20 p.m. Application of Errors-in-Variables to Model
Variation between Studies in Regression
Equations for GFR—& Tom Greene, The
Cleveland Clinic; Liang Li, The Cleveland Clinic

3:35 p.m. Dose-Response Errors and Detection of Biological Thresholds—& Michael E. Ginevan, Exponent, Inc.; Deborah K. Watkins, Exponent, Inc.

329 CC-204

Mode Considerations—Contributed

Section on Survey Research Methods

Chair(s): Sarah M. Nusser, Iowa State University

2:05 p.m. Color, Labels, and Interpretive Heuristics for Response Scales—*Roger Tourangeau, University of Maryland; Mick Couper, University of Michigan; Frederick G. Conrad, Institute for Social Research

2:20 p.m. Efficient Multimode Data Collection—❖ David Dolson, Statistics Canada

2:35 p.m. Improved Evaluation of the Quantitative Survey Response Variance—* Patrick Flanagan, U.S. Census Bureau

2:50 p.m. Comparing Performance and Self-Reported Data on Ease of Use of Surveys—* Christine Rho, Bureau of Labor Statistics

3:05 p.m. Estimation of Measurement Error and Identification of Causes in the Absence of Validation Data—❖ Andy Peytchev, University of Michigan

○ Themed Session ◆ Applied Session ◆ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

3:20 p.m.	An Alternative Estimator for Multi-Frame Sample Designs— Charles D. Palit, University of Wisconsin	2:20 p.m.	Minimax Asymptotic Mean-Squared-Error of L-estimators of Scale Parameter—❖ Daniela Szatmari-Voicu, The University of Texas at El		
3:35 p.m.	Is There a Homogeneity in Value Orientations within European Societies?— Peter P. Mohler, ZUMA	2:35 p.m.	Paso Order Statistics of Concomitants of Subsets of Order Statistics and Applications— & Ke Wang, The Ohio State University; H. N. Nagaraja, The		
330 ● ۞ Baye Contribu	CC-2A sian Methods in the Social Sciences—ted	2:50 p.m.	Ohio State University Power Transformation Toward a Linear Regression Quantile— * Yunming Mu, Texas		
Section on Ba	yesian Statistical Science	3:05 p.m.	A&M University		
Chair(s): San 2:05 p.m.	Chair(s): Sanjib Basu, Northern Illinois University		Some Moment Relationships for Skew- Symmetric Distributions— Dale Umbach, Ball		
·	 Isobel Claire Gormley, Trinity College Dublin; Thomas B. Murphy, Trinity College Dublin 	3:20 p.m.	State University On the Decomposition of the Skew-Symmetric		
2:20 p.m.	A Bayesian Approach to Correct Sample Selection Bias in Hierarchical Linear Models— * Jun Lu, American University; Labeed Mokatrin, American University		Family of Probability Distributions— * Jose A. Sanqui, Appalachian State University; Arjun K. Gupta, Bowling Green State University; Truc T. Nguyen, Bowling Green State University		
2:35 p.m.	Exploring Teacher by Student Interactions in Longitudinal Achievement Data—	3:35 p.m.	Floor Discussion		
*J. R. Lockwood, RAND Corporation; Daniel		332	CC-210		
	McCaffrey, RAND Corporation		on for Government Data Collection—		
2:50 p.m.	· · · · · · · · · · · · · · · · · · ·		on for Government Data Collection—		
2:50 p.m.	McCaffrey, RAND Corporation An Item Response Model for Balancing Personalization and Privacy in Online	Estimation Contribution	on for Government Data Collection— uted overnment Statistics		
2:50 p.m.	McCaffrey, RAND Corporation An Item Response Model for Balancing Personalization and Privacy in Online Browsing—*Steven L. Scott, University of	Estimation Contribut Section on Go Chair(s): Fra	on for Government Data Collection— Ited Overnment Statistics Ink Potter, Mathematica Policy Research, Inc.		
·	McCaffrey, RAND Corporation An Item Response Model for Balancing Personalization and Privacy in Online Browsing—* Steven L. Scott, University of Southern California; Ramnath Chellappa, Emory University	Estimation Contribution	on for Government Data Collection— ited overnment Statistics onk Potter, Mathematica Policy Research, Inc. New Models for Estimating Health Insurance Coverage for Small Areas—* Donald M. Bauder,		
2:50 p.m. 3:05 p.m.	McCaffrey, RAND Corporation An Item Response Model for Balancing Personalization and Privacy in Online Browsing—* Steven L. Scott, University of Southern California; Ramnath Chellappa, Emory University Modeling Student Ability in Low-Stakes Settings—* Eric Loken, The Pennsylvania State	Estimation Contribut Section on Go Chair(s): Fra	on for Government Data Collection— Ited overnment Statistics onk Potter, Mathematica Policy Research, Inc. New Models for Estimating Health Insurance Coverage for Small Areas—& Donald M. Bauder, U.S. Census Bureau Small-Area Estimation of Health Insurance		
·	McCaffrey, RAND Corporation An Item Response Model for Balancing Personalization and Privacy in Online Browsing—* Steven L. Scott, University of Southern California; Ramnath Chellappa, Emory University Modeling Student Ability in Low-Stakes	Estimation Contribution Section on Gondair(s): France 2:05 p.m.	on for Government Data Collection— Ited overnment Statistics Ink Potter, Mathematica Policy Research, Inc. New Models for Estimating Health Insurance Coverage for Small Areas—& Donald M. Bauder, U.S. Census Bureau		
3:05 p.m.	McCaffrey, RAND Corporation An Item Response Model for Balancing Personalization and Privacy in Online Browsing—* Steven L. Scott, University of Southern California; Ramnath Chellappa, Emory University Modeling Student Ability in Low-Stakes Settings—* Eric Loken, The Pennsylvania State University A Bayesian Approach to the Calibration of New	Estimation Contribution Section on Gondair(s): France 2:05 p.m.	on for Government Data Collection— ited overnment Statistics onk Potter, Mathematica Policy Research, Inc. New Models for Estimating Health Insurance Coverage for Small Areas—& Donald M. Bauder, U.S. Census Bureau Small-Area Estimation of Health Insurance Coverage at the Sub-State Level: a Hierarchical Bayes Model—& Steven Riesz, U.S. Census Bureau; Robin Fisher, U.S. Census Bureau Estimation of Standardized State-Level Food		
3:05 p.m.	McCaffrey, RAND Corporation An Item Response Model for Balancing Personalization and Privacy in Online Browsing—* Steven L. Scott, University of Southern California; Ramnath Chellappa, Emory University Modeling Student Ability in Low-Stakes Settings—* Eric Loken, The Pennsylvania State University A Bayesian Approach to the Calibration of New Test Items—* Tiandong Li, Westat; Chinfang Wong, University of Maryland; Ru Lu, University	Estimatic Contribut Section on Go Chair(s): Fra 2:05 p.m.	on for Government Data Collection— ited overnment Statistics onk Potter, Mathematica Policy Research, Inc. New Models for Estimating Health Insurance Coverage for Small Areas—& Donald M. Bauder, U.S. Census Bureau Small-Area Estimation of Health Insurance Coverage at the Sub-State Level: a Hierarchical Bayes Model—& Steven Riesz, U.S. Census Bureau; Robin Fisher, U.S. Census Bureau Estimation of Standardized State-Level Food Stamp Participation Rates—& Elizabeth Stuart, Mathematica Policy Research, Inc.; Allen		
3:05 p.m. 3:20 p.m. 3:35 p.m. 331 Distribut	An Item Response Model for Balancing Personalization and Privacy in Online Browsing— Steven L. Scott, University of Southern California; Ramnath Chellappa, Emory University Modeling Student Ability in Low-Stakes Settings— Eric Loken, The Pennsylvania State University A Bayesian Approach to the Calibration of New Test Items— Tiandong Li, Westat; Chinfang Wong, University of Maryland; Ru Lu, University of Maryland Floor Discussion CC-618 ion and Robustness Theory—	Estimatic Contribut Section on Go Chair(s): Fra 2:05 p.m.	on for Government Data Collection— ited overnment Statistics onk Potter, Mathematica Policy Research, Inc. New Models for Estimating Health Insurance Coverage for Small Areas—& Donald M. Bauder, U.S. Census Bureau Small-Area Estimation of Health Insurance Coverage at the Sub-State Level: a Hierarchical Bayes Model—& Steven Riesz, U.S. Census Bureau; Robin Fisher, U.S. Census Bureau Estimation of Standardized State-Level Food Stamp Participation Rates—& Elizabeth Stuart,		
3:05 p.m. 3:20 p.m. 3:35 p.m. 331 Distribut Contribu	An Item Response Model for Balancing Personalization and Privacy in Online Browsing— Steven L. Scott, University of Southern California; Ramnath Chellappa, Emory University Modeling Student Ability in Low-Stakes Settings— Eric Loken, The Pennsylvania State University A Bayesian Approach to the Calibration of New Test Items— Tiandong Li, Westat; Chinfang Wong, University of Maryland; Ru Lu, University of Maryland Floor Discussion CC-618 ion and Robustness Theory— ted	Estimatic Contribut Section on Go Chair(s): Fra 2:05 p.m.	on for Government Data Collection— ited overnment Statistics onk Potter, Mathematica Policy Research, Inc. New Models for Estimating Health Insurance Coverage for Small Areas—& Donald M. Bauder, U.S. Census Bureau Small-Area Estimation of Health Insurance Coverage at the Sub-State Level: a Hierarchical Bayes Model—& Steven Riesz, U.S. Census Bureau; Robin Fisher, U.S. Census Bureau Estimation of Standardized State-Level Food Stamp Participation Rates—& Elizabeth Stuart, Mathematica Policy Research, Inc.; Alan M. Zaslavsky, Harvard Medical School; Laura Castner, Mathematica Policy Research, Inc.;		
3:05 p.m. 3:20 p.m. 3:35 p.m. 331 Distribut Contribu	McCaffrey, RAND Corporation An Item Response Model for Balancing Personalization and Privacy in Online Browsing— Steven L. Scott, University of Southern California; Ramnath Chellappa, Emory University Modeling Student Ability in Low-Stakes Settings— Eric Loken, The Pennsylvania State University A Bayesian Approach to the Calibration of New Test Items— Tiandong Li, Westat; Chinfang Wong, University of Maryland; Ru Lu, University of Maryland Floor Discussion CC-618 ion and Robustness Theory— ted m Nonparametric Statistics	Estimation Contribution Section on Gontribution Section on Gontribution Chair(s): France 2:05 p.m. 2:20 p.m.	on for Government Data Collection— ited overnment Statistics onk Potter, Mathematica Policy Research, Inc. New Models for Estimating Health Insurance Coverage for Small Areas—& Donald M. Bauder, U.S. Census Bureau Small-Area Estimation of Health Insurance Coverage at the Sub-State Level: a Hierarchical Bayes Model—& Steven Riesz, U.S. Census Bureau; Robin Fisher, U.S. Census Bureau Estimation of Standardized State-Level Food Stamp Participation Rates—& Elizabeth Stuart, Mathematica Policy Research, Inc.; Allen Schirm, Mathematica Policy Research, Inc.; Alan M. Zaslavsky, Harvard Medical School; Laura Castner, Mathematica Policy Research, Inc.; Scott Cody, Mathematica Policy Research, Inc. Estimating School District Poverty with Free and Reduced Priced Lunch Data—& Craig Cruse, U.S.		
3:05 p.m. 3:20 p.m. 3:35 p.m. 331 Distribut Contribu	An Item Response Model for Balancing Personalization and Privacy in Online Browsing— Steven L. Scott, University of Southern California; Ramnath Chellappa, Emory University Modeling Student Ability in Low-Stakes Settings— Eric Loken, The Pennsylvania State University A Bayesian Approach to the Calibration of New Test Items— Tiandong Li, Westat; Chinfang Wong, University of Maryland; Ru Lu, University of Maryland Floor Discussion CC-618 ion and Robustness Theory— ted	Estimation Contribution Section on Gontribution Section on Gontribution Chair(s): France 2:05 p.m. 2:20 p.m.	on for Government Data Collection— ited overnment Statistics onk Potter, Mathematica Policy Research, Inc. New Models for Estimating Health Insurance Coverage for Small Areas—& Donald M. Bauder, U.S. Census Bureau Small-Area Estimation of Health Insurance Coverage at the Sub-State Level: a Hierarchical Bayes Model—& Steven Riesz, U.S. Census Bureau; Robin Fisher, U.S. Census Bureau Estimation of Standardized State-Level Food Stamp Participation Rates—& Elizabeth Stuart, Mathematica Policy Research, Inc.; Allen Schirm, Mathematica Policy Research, Inc.; Alan M. Zaslavsky, Harvard Medical School; Laura Castner, Mathematica Policy Research, Inc.; Scott Cody, Mathematica Policy Research, Inc. Estimating School District Poverty with Free and		

3:05 p.m.

An Analysis of Gender Differences in Vehicle

Brian Sloboda, Bureau of Transportation

Miles Traveled Using Nonparametric Methods—

Mathematics

Estimation against Heavy Contamination—

Hironori Fujisawa, The Institute of Statistical

Statistics; Wenxiong V. Yao, University of Arkansas at Little Rock

3:20 p.m. Improved Preliminary Estimation of Total Employment Change for the U.S. Current Employment Statistics Survey—❖ Bogong Li, Bureau of Labor Statistics; Partha Lahiri, University of Maryland

3:35 p.m. Analysis of Recall Effect on the Reporting of Expenditures for the Consumer Expenditure Interview Survey—❖ Barry Steinberg, Bureau of Labor Statistics; Boriana Chopova, Bureau of Labor Statistics; Lucilla Tan, Bureau of Labor Statistics; Jared Ogden, Bureau of Labor Statistics; Pierre Bahizi, Bureau of Labor Statistics; Geoffrey Paulin, Bureau of Labor Statistics

333 CC-206

New Approaches to Modeling Costs and Other Health Outcomes—Contributed

Section on Health Policy Statistics, Biometrics Section *Chair(s): Mark Glickman, Boston University*

2:05 p.m. Performance of Statistical Models To Predict
Mental Health and Substance Abuse Cost—

* Maria Montez, Boston University; Cindy
Christiansen, Boston University; Susan L. Ettner,
University of California, Los Angeles; Susan
Loveland, Boston University; Amy K. Rosen,
Boston University

2:20 p.m. Use of Risk-Adjustment Models To Predict Future High Medical Cost Cases: Is the Model Performance Sensitive to the Time Intervals in Claims Data?— * Ya-Chen Tina Shih, M. D. Anderson Cancer Center; Lirong Zhao, M. D. Anderson Cancer Center; Ying Xu, M. D. Anderson Cancer Center

2:35 p.m. Two-Stage Samples and the Minimum Sum
Method for Medicare Fraud Investigations—
*Iliana Ignatova, University of South Carolina

2:50 p.m. Experiences with a Virtual Regionalization
Model for Cardiac Surgery—& Edward Wegman,
George Mason University; Yasmin H. Said, The
Johns Hopkins University; Shabib A. Alhadheri,
SUNY Upstate Medical University

3:05 p.m. The LASSO-Patternsearch Algorithm and Its Application to Data from the Beaver Dam Eye Study—❖ Weiliang Shi, University of Wisconsin-Madison; Grace Wahba, University

of Wisconsin-Madison; Kristine Lee, University of Wisconsin-Madison; Ronald Klein, University of Wisconsin-Madison; Barbara E. K. Klein, University of Wisconsin-Madison

3:20 p.m. On the Equivalence of Medical Cost Estimators with Censored Data—Heejung Bang, Cornell University; & Hongwei Zhao, University of Rochester; Phillip E. Pfeifer, University of Virginia; Hongkun Wang, University of Virginia

3:35 p.m. Floor Discussion

334 CC-620

◆ Degradation Models and Other Topics in Reliability—Contributed

Section on Physical and Engineering Sciences

Chair(s): Jave Pascual, Washington State University

2:05 p.m. A Statistical Method for Crack Detection in Thermal Acoustics Nondestructive Evaluation Data—& Chunwang Gao, Iowa State University; William Q. Meeker, Jr., Iowa State University

2:20 p.m. Estimation of Flaw Size Distribution Parameters under Correlated Random Censoring—* Peter Hovey, University of Dayton; Alan Berens, Retired

2:35 p.m. Modeling Unit Degradation from Exceedance
Time Data— Hui Fan, Rensselaer Polytechnic
Institute; Brock Osborn, GE Global Research;
Thomas R. Willemain, Rensselaer Polytechnic
Institute; Pasquale Sullo, Rensselaer Polytechnic
Institute

2:50 p.m. A Discrete Degradation Model for Ultra-Thin Gate Oxide Data— Shuen-Lin Jeng, Tunghai University; Min-Hsiung Hsien, Tunghai University

3:05 p.m. Bayesian Degradation Modeling with CovariateDependent Box-Cox Transformation of the
Response Variable—❖ Fridtjof Thomas, VTI;
Arzu Onar, St. Jude Children's Research Hospital;
Bouzid Choubane, Florida Department of
Transportation; Tom Byron, Florida Department
of Transportation

3:20 p.m. Recurrent Events: Modeling and Inference— *Edsel A. Peña, University of South Carolina

3:35 p.m. Floor Discussion

② Themed Session ● Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

335 CC-601 ● Classification Methods and Functional Data		2:50 p.m.	Construction Methods for Balanced Incomplete Block Designs—*Jeffrey Shaffer, Tulane
	—Contributed		University; Sudesh Srivastav, Tulane University
Section on Nonparametric Statistics Chair(s): Martina Pavlicova, Columbia University		3:05 p.m.	Asymptotic Properties of Effective
			Experimenting Strategies— Anatoly Naumov,
2:05 p.m.	Scrambling Method for Cluster Analysis Using		Novosibirsk State Technical University
·	Supervised Learning—❖ Oksana Shcherbak, Union Bank of California	3:20 p.m.	Misspecification Tests for Binomial and Beta-Binomial Models—∜Marinela Capanu,
2:20 p.m.	Finding an Approximate Solution Path of Support Vector Machines for Large Datasets—		Memorial Sloan-Kettering Cancer Center; Brett Presnell, University of Florida
	 Zhenhuan Cui, The Ohio State University; Yoonkyung Lee, The Ohio State University 	3:35 p.m.	Floor Discussion
2:35 p.m.	Bandwidth Selection for RBF Kernel in Kernel-	337	CC-212
·	Based Classification — ❖ Jeongyoun Ahn, The University of North Carolina at Chapel Hill		ng Statistics to Specific Audiences—
2:50 p.m.	Multivariate Functional ANOVA for Kriging		atistical Education, Section on Statistical Graphics
	Model in Computer Experiments—❖ Zhe Zhang,		arvin Gruber, Rochester Institute of Technology
	The Pennsylvania State University	2:05 p.m.	Teaching Effective Graph and Table Construction
3:05 p.m.	Bootstrap Investigation of the Median Curve of	•	Needs More Attention in Statistical Education—
	a Functional Dataset—❖ David B. Hitchcock,		*Thomas E. Bradstreet, Merck Research
2-20	University of South Carolina		Laboratories; Michael Nessly, Merck Research
3:20 p.m.	Analysis of Panic-Relevant Experimental Tidal Volume Curves: Wavelet-Based Functional		Laboratories; Thomas H. Short, Indiana University of Pennsylvania
	Hypothesis Testing— Sang Han Lee, Texas	2:20 p.m.	What Do M&Ms, Dahlias, Soil Erosion, and
	A&M University; Marina Vannucci, Texas A&M	2.20 μ.π.	Data Analysis across the Curriculum Have
	University; Eva Petkova, Columbia University;		in Common?— Ferry Moreno, John Carroll
	Maurice Preter, Columbia University; Donald		University
	Klein, Columbia University	2:35 p.m.	Instructional Tools in Educational Measurement
3:35 p.m.	Floor Discussion		and Statistics (ITEMS) for School Personnel:
			Evaluation of Two Web-Based Training
336	CC-605		Modules—❖ Rebecca Zwick, University of California, Santa Barbara; Jeffrey C. Sklar,
	cal Data and Experimental Design—		California Polytechnic State University, San
Contributed			Luis Obispo; Graham Wakefield, University of
Section on Statistical Computing, Section on Quality and Productivity			California, Santa Barbara
Chair(s): Zenaida F. Mateo, University of Manitoba		2:50 p.m.	Interactive Animation for Learning IRT and
2:05 p.m.	A Simple Method for Generating Multivariate Categorical Variates—♦ Hyunjip Choi, Kyonggi		Misfit Identification in Item Response Theory— *Chong Ho Yu, Arizona State University;
	University		Roger Freeman, Paradise Valley Unified School
2:20 p.m.	Testing Multinomial Categories with Sequential		District; Angel Jannasch-Pennell, Arizona State
	Sampling: Is a Wheel of Fortune Fair?—		University; Samuel DiGangi, Arizona State
	Hokwon Cho, University of Nevada, Las Vegas;Hai Zhen, University of Nevada, Las Vegas		University; Chang Kim, Arizona State University;
	Tiai Ziicii, Oiliversity of Nevada, Las vegas		Victoria Stay, Arizona State University; Wenjuo

Lo, Arizona State University; Lori Long, Arizona

An Education Model for Secondary Students—

Aleong, Delaware State University

John Aleong, University of Vermont; & Chandra

State University

3:05 p.m.

2:35 p.m.

A Comparison of Approximations for Logistic

University; Donald Rubin, Harvard University

Regression— & Charity J. Morgan, Harvard

3:20 p.m.	A Pilot Survey on Ways Practicing Engineers	2:20 p.m.	A Nov
	Learn Statistics—* Jorge Romeu, Syracuse		Limiti
	University		♦ Tan
3:35 p.m.	Presenting Statistics Online to Nontraditional		Birmi

B:35 p.m. Presenting Statistics Online to Nontraditional Business Students— William Livingston, Baker College Center for Graduate Studies

338 CC-213

Innovative Approaches to Introductory Statistics—Contributed

Section on Statistical Education

Chair(s): James Grady, The University of Texas Medical Branch

- **2:05 p.m. Statistics: Telling the Whole Story** Nancy Pfenning, University of Pittsburgh
- 2:20 p.m. Teaching a Writing-Centered Course in Introductory Statistics—& Deborah Lurie, Saint Joseph's University
- 2:35 p.m. Assessing the Gains from Concept Mapping in Introductory Statistics—* David Doorn, University of Minnesota, Duluth; Maureen O'Brien, University of Minnesota, Duluth
- 2:50 p.m. Further Assessment of Materials for Engaging
 Students in Statistical Discovery— W. Robert
 Stephenson, Iowa State University; Amy
 Froelich, Iowa State University; William M.
 Duckworth, Iowa State University
- 3:05 p.m. Sequencing of Topics in an Introductory Course:
 Does Order Make a Difference?—& Christopher
 Malone, Winona State University; John
 Gabrosek, Grand Valley State University
- 3:20 p.m. A Geometrical Approach to Introductory
 Statistics—❖ Daniel Kaplan, Macalester College
- 3:35 p.m. Toward Statistical Literacy: Statistics in Everyday Life—* Hoke Hill, Jr., Clemson University; William Bridges, Jr., Clemson University; Rose Martinez-Dawson, Clemson University

339 CC-603

Regression and Time Series—Contributed

Section on Statistical Computing

Chair(s): Brian Gray, The University of Alabama

2:05 p.m. Automatic Detection of Outliers Based on the Forward Search—Matilde Bini, University of Florence; Bruno Bertaccini, University of Florence; Franco Polverini, University of Florence

2:20 p.m. A Novel Statistical Approach to Identifying and Limiting the Effect of Influential Observations—

* Tamekia Jones, The University of Alabama at Birmingham; David Redden, The University of Alabama at Birmingham

2:35 p.m. Robust Winsorized Regression Using Bootstrap
Approach—Deo Kumar Srivastava, St. Jude
Children's Research Hospital; * Jianmin Pan, St.
Jude Children's Research Hospital; Ila Sarkar,
Louisiana Health Care Review, Inc.

2:50 p.m. Bent-Cable Regression with Autoregressive Noise—❖ Grace Chiu, University of Waterloo; Richard Lockhart, Simon Fraser University

3:05 p.m. Multiresolution Outlier Detection for Long-Range Dependent Time Series—❖ Lingsong Zhang, The University of North Carolina at Chapel Hill; Zhengyuan Zhu, The University of North Carolina at Chapel Hill

3:20 p.m. Restricted Error Regression—❖ James Cochran, Louisiana Tech University

3:35 p.m. Local Linear Estimation for Single-Index Conditional Quantiles— * Zhou Wu, University of Cincinnati; Yan Yu, University of Cincinnati; Keming Yu, Brunel University

340 CC-614

Misclassification and Measurement Error: Problems and Solutions—Contributed

Biometrics Section, ENAR

Chair(s): Tom Braun, University of Michigan

2:05 p.m. Measurement Error Correction Methods Based on Cumulative Average Intake for Nutritional Data—* Weiliang Qiu, Harvard Medical School; Bernard Rosner, Harvard Medical School

2:20 p.m. A Robust Likelihood-Based Approach to
Nonlinear Measurement Error Models with
Application to Radiation Dose Effects on
Leukemia-Specific Hazard Rate among A-Bomb
Survivors—* Antara Majumdar, University at
Buffalo; Randy L. Carter, University at Buffalo

2:35 p.m. Varying Coefficient Model with Measurement Error—* Liang Li, The Cleveland Clinic; Tom Greene, The Cleveland Clinic

2:50 p.m. Conditional Score Methods for Regression
Models with Poisson Surrogates— Alvin Van
Orden, North Carolina State University; Leonard
A. Stefanski, North Carolina State University

☼ Themed Session ● Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

3:05 p.m.	Effects of Misclassification on Exposure-Disease Association with Odds Ratio— \$Jun-mo Nam, National Cancer Institute	2:20 p.m.	Gene Selection Using a Modified Mahalanobis Distance—* Xiwen Ma, University of Wisconsin-Madison	
3:20 p.m.	Adjusting for Misclassification in Binary Response Variables— * Jun Zhai, Duke University; John Olson, Duke University; Mike	2:35 p.m.	Analysis of Microarray Data: Two Examples— Meng Du, University of Toronto; Muni Srivastava, University of Toronto	
3:35 p.m.	West, Duke University Floor Discussion	2:50 p.m.	Multidimensional Local False Discovery Rate for Microarray Studies— Vudi Pawitan, Karolinska Institutet; Alex Ploner, Karolinska Institutet	
Biopharmaceu		3:05 p.m.	Optimal Cross-Validation for Estimating Small Sample Classification Error Rate— & Wenjiang Fu, Michigan State University; Suojin Wang, Texas A&M University	
2:05 p.m.	Studies —❖ Balakrishna Hosmane, Northern Illinois University; Charles Locke, Abbott Laboratories		Gene Expression (Microarray) Analysis by Neural Networks— David Booth, Kent State University; David Zhu, Kent State University; Richard Geoke, Kent State University; David	
2:20 p.m.	Bias in Estimates of QTc Prolongation by Timepoint-Wise Treatment Comparison— *Yibin Wang, Novartis Pharmaceuticals Corporation; Guohua	3:35 p.m.	Baker, Kent State University; James Hamburg, Kent State University Floor Discussion	
2:35 p.m.	Pan, Johnson & Johnson Pharmaceutical R&D Tolerance Regions for Multivariate Random Effects Model with Application to Beat-to-Beat QT-TQ Interval Data— & Kimberly Crimin, Pfizer Inc.; Joseph McKean, Western Michigan University	343 ● Analys	CC-616 is of Correlated Data and Mixed	
2:50 p.m.	A New Method for Sample Size Calculation of the Thorough QT/QTc Study— Shu Zhang,	Models—Contributed Biometrics Section Chair(s): Jon Schildcrout, Vanderbilt University Medical Center		
3:05 p.m.	Sepracor, Inc. Bayesian Measurement Error Approach to QT Interval Correction/Prolongation—* Jie Chen, Merck Research Laboratories; Xin Zhao, Merck & Co., Inc.	2:05 p.m.	Regression Analysis of Panel Count Data with Dependent Observation Times— *Xin He, University of Missouri-Columbia; Jianguo Sun, University of Missouri-Columbia; Xingwei Tong, University of Missouri-Columbia	
3:20 p.m.	Designing and Analyzing Covariate-Adjusted Response Adaptive Randomized Clinical Trials—* Ayanbola Ayanlowo, The University of Alabama at Birmingham; David Redden, The University of Alabama at Birmingham	2:20 p.m.	Modeling Variability in Longitudinal Data Using Random Changepoint Models—& Annica Dominicus, Karolinska Institutet; Samuli Ripatti, Karolinska Institutet; Juni Palmgren, Karolinska Institutet	
3:35 p.m.	Floor Discussion	2:35 p.m.	Semiparametric Modeling with Correlated Data— Chun Han, The University of Kansas	
Microarra Biometrics Sec	Zhao, University of California, Los Angeles Detecting Differential Expressions in GeneChip	2:50 p.m. 3:05 p.m.	Marginal Mixture Analysis of Correlated Bounded-Response Data with an Application to Ultrasound Risk Assessment— *Yan Yang, University of Illinois at Urbana-Champaign; Douglas Simpson, University of Illinois at Urbana-Champaign On the Analysis of Mouse Preference Data—	
	Microarray Studies: a Quantile Approach—	3.03 μ.III.	*Yang Yang, University of Western Ontario; Willard J. Braun, University of Western Ontario	

3:20 p.m. Equality of REML and ANOVA Estimators of Variance Components in Unbalanced Models—

* Shaun Wulff, University of Wyoming

Shaun Wulff, University of Wyoming

3:35 p.m. Measuring the Mean Squared Error of the EBLUP in Linear Mixed Models—& Jamie McClave Baldwin, Info Tech, Inc.; Ramon Littell,

University of Florida

344 CC-619

◆ ② Quality Applications and Approaches— Contributed

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

Chair(s): Jennifer Van Mullekom, DuPont Quality Management and Technology

2:05 p.m. Economic Decisionmaking Challenges in Quality
Applications—& John Barrett, University of
North Alabama

2:20 p.m. Methods of Data Quality— Thomas Herzog,
U.S. Department of Housing and Urban
Development; William E. Winkler, U.S. Census
Bureau; Fritz J. Scheuren, National Opinion
Research Center

2:35 p.m. Quality Techniques in the Mill Benefit Young
Trees in the Field— Bonnie P. Dumas,
MeadWestvaco Corporation

2:50 p.m. Interlaboratory Study of DEA Proficiency Test
Using RExcel— Hung-kung Liu, National
Institute of Standards and Technology; Adriana
Hornikova, National Institute of Standards and
Technology

3:05 p.m. Statistical Data Processing of GC-MS
Data— Shiying Wu, RTI International; Jun
Liu, Research Triangle Institute; Robert J.
Morris, RTI International; James Raymer, RTI
International; Ye Hu, RTI International; Larry
Michael, RTI International

3:20 p.m. Dynamic Calibration for Instruments— Charles Hagwood, National Institute of Standards and Technology

3:35 p.m. Floor Discussion

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

345 CC-Level 6 East Lobby Contributed Posters—Contributed

Section on Physical and Engineering Sciences, Section on Statistics in Epidemiology, Section on Statistics and the Environment, Biopharmaceutical Section, Business and Economics Statistics Section, Section on Statistical Computing, IMS, Section on Survey Research Methods

Organizer(s): Maura E. Stokes, SAS Institute, Inc. Chair(s): Maura E. Stokes, SAS Institute, Inc.

Engineering and physical sciences, chemometrics

- O1 A Monte Carlo Method To Simulate the Stochastic
 Behavior of a Field of Forces— Elizabeth Martinez
 Gomez, National Autonomous University of Mexico;
 Hector A. Perez de Tejada Jaime, National Autonomous
 University of Mexico; Hector J. Durand Manterola,
 National Autonomous University of Mexico
- 02 Examples of Estimating Confidence Intervals for the Arithmetic Means of Lognormally Distributed Data from Mixed or Random Effects Linear Models—

 * Stanley Shulman, National Institute for Occupational Safety and Health
- 03 Statistical Design of Computer Experiments for a 3D Chemical Microanalysis Imaging System—❖ Juan Soto, National Institute of Standards and Technology; James J. Filliben, National Institute of Standards and Technology; John H. Scott, National Institute of Standards and Technology

Environmetrics, ecology, agriculture, wildlife management

- O4 A Study of the Type I and Type II Error Rates of Tests for Species Diversity Based on Shannon and Simpson's Indexes of Diversity—* Lewis VanBrackle, Kennesaw State University; Kristina Corts, Kennesaw State University
- 05 **Projecting the Risk of Future Climate Shifts** Luis Cid, Universidad de Concepción; David B. Enfield, National Oceanic & Atmospheric Administration

Experimental design

- 06 **Equivalence of Fractional Factorial Designs** Tena Katsaounis, The Ohio State University; Angela Dean, The Ohio State University
- 07 The Oklahoma Oral Health Needs Assessment:
 Comparison of Sampling Methods Using Monte
 Carlo Simulations—& Emily Leary, The University of
 Oklahoma Health Sciences Center

☼ Themed Session ● Applied Session ❖ Presenter CC-Washington State Convention & Trade Center H-Grand Hyatt Seattle S-Sheraton Seattle Hotel & Towers

08 Design of Experiments for Parameter Estimation in Compartmental Models— Michael DeVasher, The University of Alabama; J. Michael Hardin, The University of Alabama

QC, operation research, risk assessment

- O9 Validation of the K-Statistic for Accelerometer Data
 Quality—* James Slaven, National Institute for
 Occupational Safety and Health; Michael Andre,
 National Institute for Occupational Safety and Health;
 John Violanti, SUNY University at Buffalo; Cecil
 Burchfiel, National Institute for Occupational Safety
 and Health; Bryan Vila, Washington State University
- 10 The Relationship between the T-Square Statistics of a Phase I and Phase II Operation—❖ John Young, McNeese State University; Robert L. Mason, Southwest Research Institute; Youn-Min Chou, The University of Texas at San Antonio
- 11 Number of Replications Required in Control Chart Monte Carlo Simulation Studies—* Jay Schaffer, University of Northern Colorado; Myoung-Jin Kim, University of Northern Colorado
- 12 Is Average Run Length a Good Measure of Performance?—Jay Schaffer, University of Northern Colorado; & Chad Eshelman, University of Northern Colorado

Spatial statistics, time series, spatio-temporal modeling

- A MATLAB Software Implementation for Time-Series
 Analysis by State-Space Methods—❖ Jyh-Ying Peng,
 Academia Sinica; John Aston, Academia Sinica
- An Interpolated Periodogram-Based Metric for Comparison of Time Series with Unequal Lengths—
 *Jorge Caiado, CEMAPRE/ISEG and IPS; Nuno Crato, CEMAPRE/Technical University of Lisbon; Daniel Peña, Universidad Carlos III de Madrid
- 15 Recent Developments in Seasonal Adjustment Software at the U.S. Census Bureau—❖ Brian C. Monsell, U.S. Census Bureau
- 16 Elevators as an Excitation Source for Structural Health Monitoring in Buildings—*Jong-ho Baek, University of California, Los Angeles
- 17 Predicting Integrals of Transformed Gaussian Random Fields— *Zhengyuan Zhu, The University of North Carolina at Chapel Hill; Alf Harbitz, Institute of Marine Research, Observation Methodology

- Analysis of Mixed Frequency Data: a Bayesian Model
 Averaging Approach—& Gavino Puggioni, Duke
 University; Abel Rodriguez, Duke University
- 19 Data Augmentation within a Conditionally Specified Gaussian Spatial Model— Brooke Fridley, Mayo Clinic College of Medicine; Philip Dixon, Iowa State University
- 20 Spatio-Temporal Precipitation Modeling Based on a Hidden Random Field—❖Oleg Makhnin, New Mexico Tech
- 21 Real-Time Multivariate Analysis Onboard a Wi-Fi-Controlled Vehicle—* Jason Minter, Sam Houston State University; Cecil Hallum, Sam Houston State University

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

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CC-Ballroom 6ABC

Deming Lecture—Invited

Deming Lectureship Committee, The ASA, ENAR, WNAR, IMS, SSC, Section on Statistical Consulting

Organizer(s): Lorraine Denby, Avaya Labs Research Chair(s): Lorraine Denby, Avaya Labs Research

4:05 p.m. Making Another World: a Holistic Approach to

Performance Improvement—❖ Ronald D. Snee,

Tunnell Consulting

5:35 p.m. Floor Discussion

Invited Sessions 8:00 p.m.-9:30 p.m.

347 CC-Ballroom 6ABC ASA Presidential Address and Awards—Invited

The ASA

Organizer(s): Sallie Keller-McNulty, Rice University Chair(s): Fritz J. Scheuren, National Opinion Research Center

8:00 p.m. Presentation of Awards—❖ Fritz J. Scheuren, National Opinion Research Center

8:30 p.m. From Data to Policy: Scientific Excellence Is Our Future— Sallie Keller-McNulty, Rice University

9:00 p.m. Presentation of Founders Awards and New ASA

Fellows—**♦** Fritz J. Scheuren, National Opinion

Research Center