THURSDAY, AUGUST 11

Committee/Business Meetings & Other Activities

7:00 a.m.–10:30 a.m. MCC-204 A
Speaker Work Room

7:00 a.m.–10:30 a.m. MCC-204 B
Speaker Work Room

7:00 a.m.–10:30 a.m. MCC-Level 1, Registration Lobby
Cyber Café and Message Center

7:00 a.m.–10:30 a.m. MCC-Level 1, Registration Lobby
JSM Main Registration
The ASA Communities Booth
Special Assistance and Press Desk

8:00 a.m.–10:00 a.m. MCC-Level 1, Registration Lobby
Council of Sections Response Meeting (closed)
Chair(s): E. Jacquelin Dietz, Meredith College

7:00 a.m.–10:30 a.m. MCC-Level 1, Registration Lobby
The ASA Marketplace

10:00 a.m.–12:00 p.m. MCC-206 AB
Council of Sections Debriefing Meeting (closed)
Chair(s): E. Jacquelin Dietz, Meredith College

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

460 MCC-L100 G

Introductory Overview Lecture on Objective Bayesian Inference

The ASA, ENAR, IMS, SSC, WNAR, Business and Economics Statistics Section, Section on Bayesian Statistical Science, Biometrics Section

Organizer(s): Ming-Hui Chen, University of Connecticut

Chair(s): Ming-Hui Chen, University of Connecticut

8:35 a.m. Objective Bayesian Estimation—✦ James Berger, Duke University

9:25 a.m. Objective Bayesian Testing and Model Selection—✦ M. J. Bayarri, University of Valencia

10:15 a.m. Floor Discussion

Invited Sessions 8:30 a.m.–10:20 a.m.

461 MCC-L100 E

Frank Proschan Memorial Session—Invited

Memorial, Section on Nonparametric Statistics, ENAR

Organizer(s): Nozer D. Singpurwalla, George Washington University

Chair(s): Michael Proschan, National Heart, Lung, and Blood Institute

8:35 a.m. Frank Proschan: Career Highlights—✦ Myles Hollander, Florida State University

8:55 a.m. Memories of a Working Friendship with Frank Proschan—✦ Philip J. Boland, National University of Ireland

9:15 a.m. Applications of Frank Proschan's Ideas and Methodology to Markov Chains—✦ Mark Brown, City College of New York, CUNY

9:35 a.m. Proschan and Pittsburgh—Henry W. Block, University of Pittsburgh; ✦ Thomas H. Savits, University of Pittsburgh

9:55 a.m. Frank Proschan's Contributions to Statistics—✦ Francisco J. Samaniego, University of California, Davis

10:15 a.m. Floor Discussion

462 MCC-103 A

✺ ☆ **Wavelets and Self-similarity—Invited**

IMS, Section on Nonparametric Statistics

Organizer(s): Eric Kolaczyk, Boston University

Chair(s): Eric Kolaczyk, Boston University

8:35 a.m. Wavelet-based Volatility Estimation for High-frequency Financial Data—✦ Yazhen Wang, University of Connecticut

9:00 a.m. Wavelet-based Convex Rearrangements in Estimation of Hurst Exponent—✦ Brani Vidakovic, Georgia Institute of Technology

9:25 a.m. Wavelet-based Inferences for Long Memory Processes—✦ Peter F. Craigmile, The Ohio State University

9:50 a.m. Wavelet-based Estimators of the Hurst Parameter: Statistical Properties and Applications—✦ Carlos J. Morales, WPI; Eric Kolaczyk, Boston University

10:05 a.m. Floor Discussion

463 MCC-L100 A

✺ **Dynamic Allocation of Patients in Clinical Trials—Invited**

Biopharmaceutical Section, ENAR, WNAR, Biometrics Section

Organizer(s): Mani Lakshminarayanan, Pfizer, Inc.

Chair(s): Mani Lakshminarayanan, Pfizer, Inc.

8:35 a.m. Adaptive Allocation Methods for Balance of Treatment Assignment—✦ Susan Ellenberg, University of Pennsylvania

9:05 a.m. Dynamic Allocation and Randomization—✦ Terry M. Therneau, Mayo Clinic

9:35 a.m. Disc: Charles Anello, U.S. Food and Drug Administration

9:55 a.m. Disc: Andrew P. Grieve, Pfizer Central Research

10:15 a.m. Floor Discussion

464 MCC-L100 F

✺ ✯ **Career Success: Statisticians Collaborating and Thinking beyond Statistics—Invited**

Committee on Career Development, Section on Statistical Consulting, Biopharmaceutical Section, Business and Economics Statistics Section, Social Statistics Section

Organizer(s): Janet Myhre, Reed Institute for Decision Science

Chair(s): Janet Myhre, Reed Institute for Decision Science

8:35 a.m. The Transition from 'Service' to 'Collaboration' in a Statistical Consulting Environment—✦ Daniel R. Jeske, University of California, Riverside

8:55 a.m. Collaborating, Data Analysis, and Science in Statistical Education—✦ Johanna Hardin, Pomona College

9:15 a.m. From Statistician to Involved Colleague—✦ Matthias Schonlau, RAND Corporation; John Adams, RAND Corporation

9:35 a.m. Disc: Arnold Goodman, UCI Center for Statistical Consulting

9:55 a.m. Disc: Lee Wilkinson, Northwestern University

10:15 a.m. Floor Discussion

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RECYCLE
your badge holders!

JSM badges and badge holders will be collected for recycling. Please place those you are not reusing in a designated bin at the registration area.

465 MCC-200 F

✺ **Recent Advances of Statistical Methodologies for Assessing the Nonlinear and/or Nonadditive Environmental Effects on Ecological Systems—Invited**

Biometrics Section, Section on Statistics and the Environment, WNAR

Organizer(s): Kung-Sik Chan, The University of Iowa

Chair(s): Henghsiu Tsai, Institute of Statistical Science, Academia Sinica

8:35 a.m. Nonadditive Environmental Effects in a Large Marine Fish Population—✦ Lorenzo Ciannelli, University of Oslo; Kung-Sik Chan, The University of Iowa; Kevin Bailey, Alaska Fisheries Science Center, NOAA; Nils C. Stenseth, University of Oslo

9:00 a.m. A Survey of Statistical Methods Useful for Exploring and Analyzing Nonlinearity and/or Nonadditivity in Ecological Systems—✦ Kung-Sik Chan, The University of Iowa

9:25 a.m. Spatial and Temporal Variability Exert Opposing Effects on Density Dependence in Populations of Large Herbivores—✦ Guiming Wang, Colorado State University; Tom Hobbs, Colorado State University; Randall B. Boone, Colorado State University; Andrew W. Illius, University of Edinburgh; Iain J. Gordon, CSIRO; John E. Gross, National Park Service; Kenneth L. Hamlin, Montana Fish, Wildlife, and Parks

9:50 a.m. Disc: Nils C. Stenseth, University of Oslo

10:10 a.m. Floor Discussion

466 MCC-209 AB

✺ **Statistical Methods and Problems for Electronic Markets—Invited**

Business and Economics Statistics Section, Section on Statistics and Marketing

Organizer(s): Wolfgang Jank, University of Maryland

Chair(s): Wolfgang Jank, University of Maryland

8:35 a.m. Consumer Surplus in Online Auctions—✦ Ravi Bapna, University of Connecticut

9:05 a.m. Sampling eCommerce Data from the Web: Methodological and Practical Issues—✦ Galit Shmueli, University of Maryland; Wolfgang Jank, University of Maryland; Ravi Bapna, University of Connecticut

9:35 a.m. The Bid Arrival Process in Online Auctions—✦ Ralph P. Russo, The University of Iowa

10:05 a.m. Floor Discussion

467 MCC-103 B

Causal Inference—Invited

IMS, Section on Bayesian Statistical Science, Business and Economics Statistics Section, Social Statistics Section, Section on Health Policy Statistics, Section on Statistics in Epidemiology, WNAR, Biometrics Section

Organizer(s): Siddhartha Chib, Washington University in St. Louis

Chair(s): Ivan Jeliazkov, University of California, Irvine

8:35 a.m. Recent Applications of Principal Stratification—✦ Donald B. Rubin, Harvard University

9:05 a.m. Modeling and Calculating the Effect of Treatment at Baseline from Panel Outcomes—✦ Siddhartha Chib, Washington University in St. Louis

9:35 a.m. Robust and Honest Confidence Intervals for Causal Effects: Application of a Unified Theory of Parametric, Semi and Nonparametric Statistics Based on Higher Dimensional Influence Functions—✦ Aad van der Vaart, Vrije University; James M. Robins, Harvard University; Eric Tchetgen, Harvard University; Lingling Li, Harvard University

10:05 a.m. Floor Discussion

468 MCC-212 AB

✺ Recent Smoothing Procedures for Estimating Discontinuous Curves and Surfaces—Invited

Section on Statistical Computing, Section on Nonparametric Statistics

Organizer(s): Peihua Qiu, University of Minnesota

Chair(s): Peihua Qiu, University of Minnesota

8:35 a.m. Estimation of Discontinuous Curves and Surfaces: Edge-preserving and Smoothing—✦ Irene Gijbels, Catholic University of Louvain

9:00 a.m. Testing for Parameter Changes at Unknown Times in a Stochastic Regression Framework—✦ Venkata K. Jandhyala, Washington State University

9:25 a.m. Spatially Adaptive Smoothing: a Propagation-separation Approach for Imaging Problems—✦ Joerg Polzehl, WIAS; Vladimir Spokoiny, WIAS

9:50 a.m. Inference of Trends in Time Series—✦ Wei B. Wu, The University of Chicago

10:15 a.m. Floor Discussion

469 MCC-205 C

✺ ✫ In Sickness and in Health: Research on Informal Caregiving across the Lifespan—Invited

The Caucus for Women in Statistics, Social Statistics Section, ENAR, Committee on Women in Statistics, Biometrics Section

Organizer(s): Julia Bienias, Rush University Medical Center

Chair(s): Christina M. Gullion, Kaiser Permanente

8:35 a.m. Informal Caregiving for the Elderly: Current Research Findings and Future Directions—✦ Judith J. McCann, Rush University Medical Center

9:00 a.m. Multidimensional Aspects Related to Caregiving Experience—✦ Chih-Hung Chang, Northwestern University; Linda L. Emanuel, Northwestern University

9:25 a.m. Measuring Child Care: the Validity of Parental Reports—✦ Jerry West, National Center for Education Statistics

9:50 a.m. Disc: Mari Palta, University of Wisconsin, Madison

10:10 a.m. Floor Discussion

470 MCC-200 ABC

✺ ✫ Novel Statistical Genetics Methods That Integrate Genomic and Post-genomic Data—Invited

WNAR, ENAR, Biopharmaceutical Section, Biometrics Section

Organizer(s): Steve Horvath, University of California, Los Angeles

Chair(s): Jun Dong, University of California, Los Angeles

8:35 a.m. Complex Systems To Understand Complex Traits: beyond the Petri Dish—✦ Eric E. Schadt, Rosetta Inpharmatics

9:05 a.m. Statistical Methods for Constructing Weighted Gene Coexpression Networks: Applications to Identifying Complex Disease Genes in Mouse Crosses—✦ Steve Horvath, University of California, Los Angeles; Bin Zhang, University of California, Los Angeles

9:35 a.m. Integrated Statistical Modeling of Gene Expression Data—✦ Hongyu Zhao, Yale University

10:05 a.m. Floor Discussion

471 MCC-200 DE

✺ ✫ Computational Biology—Invited

ENAR, WNAR, Biometrics Section

Organizer(s): Jun S. Liu, Harvard University

Chair(s): Jun S. Liu, Harvard University

8:35 a.m. Statistical Paradigms for RNA Folding and Applications—✦ Ye Ding, Wadsworth Center

9:00 a.m. Sequential Monte Carlo Methods and Protein Structures—✦ Rong Chen, University of Illinois, Chicago

Thursday

9:25 a.m. Transcription Regulation Networks—✦ Chiara Sabatti, University of California, Los Angeles

9:50 a.m. Statistical Analysis for Transcription Regulatory Modules—✦ Mayetri Gupta, The University of North Carolina at Chapel Hill; Jun S. Liu, Harvard University

10:15 a.m. Floor Discussion

472 MCC-103 E

✺ Multi-block Analysis in Microarrays and Chemometrics—Invited

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

Organizer(s): S. Stanley Young, National Institute of Statistical Sciences

Chair(s): S. Stanley Young, National Institute of Statistical Sciences

8:35 a.m. Mining Systems Biology Data—✦ Raymond L. Lam, Centacor

9:00 a.m. PLS, GPA, and Multiblock Analysis Methods—✦ Michel Tenenhaus, HEC School of Management

9:25 a.m. Multiblock Relationships in High Dimensions—✦ Douglas M. Hawkins, University of Minnesota; Despina Stefan, University of Minnesota

9:50 a.m. Ontology-enhanced Statistical Analysis—✦ Jiajun Liu, North Carolina State University; Jacqueline M. Hughes-Oliver, North Carolina State University; Alan Menius, GlaxoSmithKline

10:15 a.m. Floor Discussion

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

473 MCC-200 I

Brain Image Analysis—Topic Contributed

Biometrics Section, Section on Bayesian Statistical Science, WNAR

Organizer(s): Daniel B. Rowe, Medical College of Wisconsin

Chair(s): Daniel B. Rowe, Medical College of Wisconsin

8:35 a.m. An Angular Regression Model for Phase-only fMRI Data—✦ Christopher Meller, Medical College of Wisconsin; Daniel B. Rowe, Medical College of Wisconsin

8:55 a.m. An Evaluation of Methods for Identifying Regions of Activation in fMRI Analysis—✦ Maya Geliazkova, University of Wisconsin, Milwaukee; Brent Logan, Medical College of Wisconsin

9:15 a.m. Spatial-temporal Modeling of Visual Cortex Pathology—✦ Raymond G. Hoffmann, Medical College of Wisconsin; Daniel B. Rowe, Medical College of Wisconsin; Edgar A. Deyoe, Medical College of Wisconsin

9:35 a.m. Determining Significant Connectivity by 3D Spatio-temporal Wavelet Packet Resampling of Functional Neuroimaging Data—✦ Rajan Patel, Emory University; F. DuBois Bowman, Emory University

9:55 a.m. Maximizing Power with Arterial Spin Labeling fMRI—✦ Jeanette Mumford, University of Michigan; Luis Hernandez-Garcia, University of Michigan; Thomas Nichols, University of Michigan

10:15 a.m. Floor Discussion

474 MCC-211 B

✺ ✯ Bayesian Phylogenetics—Topic Contributed

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

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

Chair(s): Cecile Ane, University of Wisconsin, Madison

8:35 a.m. Detecting Differential Selection on Predefined Groups of Sequences—✦ Karin Dorman, Iowa State University; Xun Gu, Iowa State University

8:55 a.m. A Bayesian Phylogenetic Method To Identify Multiple Recombination Events among Recombinant Sequences with Apparent Similar Mosaic Structure—✦ Fang Fang, Iowa State University; Karin Dorman, Iowa State University; Marc A. Suchard, University of California, Los Angeles; Vladimir N. Minin, University of California, Los Angeles

9:15 a.m. A Bayesian Modeling of AFLP Data and Phylogenetic Inference—✦ Ruiyan Luo, University of Wisconsin, Madison; Bret Larget, University of Wisconsin, Madison

9:35 a.m. Resolving Phylogenies for Rapidly Emerging Pathogens with Indel Information—✦ Benjamin Redelings, University of California, Los Angeles; Marc A. Suchard, University of California, Los Angeles

9:55 a.m. Reconstructing Posterior Distributions of a Species Phylogeny Using Estimated Gene Tree Distributions—✦ Liang Liu, The Ohio State University; Dennis Pearl, The Ohio State University

10:15 a.m. Floor Discussion

475 MCC-205 A

✺ Interesting Methodological Topics Related to Internal Revenue Service Tax Statistics—Topic Contributed

Section on Government Statistics

Organizer(s): Kevin Cecco, Internal Revenue Service

Chair(s): Lisa Blumerman, U.S. Census Bureau

8:35 a.m. A Cluster Analysis Approach to Describing Tax Return Data—✦ Brian Raub, U.S. Internal Revenue Service

8:55 a.m. A Comparison of Income Concepts Across Agencies: IRS, Census, and BLS—✦ Eric Henry, U.S. Internal Revenue Service; Charles Day, U.S. Internal Revenue Service

9:15 a.m. Consider the Source: Differences in Estimates of Income and Wealth from Survey and Tax Data—✦ Barry Johnson, U.S. Internal Revenue Service; Kevin Moore, Federal Reserve Board

9:35 a.m. The 1999–2003 Statistics of Income Individual Income Tax Return Edited Panel—✦ Michael Weber, U.S. Internal Revenue Service; Victoria L. Bryant, U.S. Internal Revenue Service

9:55 a.m. Trends in 401(k) and IRA Contribution Activity, 1999–2002: Results from a Panel of Matched Tax Returns and Information Documents—✦ Peter Sailer, U.S. Internal Revenue Service; Victoria L. Bryant, U.S. Internal Revenue Service; Sarah A. Holden, Investment Company Institute

10:15 a.m. Floor Discussion

476 MCC-211 A

✺ ✯ **Bayesian Modeling and Computation—Topic Contributed**

Section on Bayesian Statistical Science

Organizer(s): Hedibert F. Lopes, The University of Chicago

Chair(s): Hedibert F. Lopes, The University of Chicago

8:35 a.m. Sequential Monte Carlo Methods for Static Problems—✦ Arnaud Doucet, Cambridge University

8:55 a.m. Factor Models with Markov Switching Stochastic Volatility—✦ Carlos M. Carvalho, Duke University; Hedibert F. Lopes, The University of Chicago

9:15 a.m. The Importance of Posterior Moments and Parameterization in Bayes Computation—✦ Paul Speckman, University of Missouri, Columbia; Dongchu Sun, University of Missouri, Columbia

9:35 a.m. Identification and Adaptive Control of ARX Models with Occasional Parameter Jumps via Fast Particle Filters—✦ Yuguo Chen, Duke University

9:55 a.m. Sequential Monte Carlo with Lookahead—✦ Junni Zhang, Peking University

10:15 a.m. Floor Discussion

477 MCC-200 J

✺ ✯ **Recent Developments in Microarray—Topic Contributed**

Biometrics Section, Section on Bayesian Statistical Science, WNAR

Organizer(s): Adam Olshen, Memorial Sloan-Kettering Cancer Center

Chair(s): Yingfu Li, University of Houston, Clear Lake

8:35 a.m. Validating Microarray Results across Institutions or over Time—✦ Adam Olshen, Memorial Sloan-Kettering Cancer Center; Shaokun Chuai, Memorial Sloan-Kettering Cancer Center; William Gerald, Memorial Sloan-Kettering Cancer Center

8:55 a.m. Bayesian Finite Mixture Models and Metaanalysis for Multitissue Polygenic Phenomena in Complex Biological Systems—✦ Yulan Liang, University at Buffalo; Xueya Cai, University at Buffalo; Arpad Kelemen, Niagara University

9:15 a.m. Bayes Regression Approach to the Analysis of Array CGH Data—✦ I-Shou Chang, National Health Research Institutes; Chi-Chung Wen, National Health Research Institutes; Yuh-Jenn Wu, National Health Research Institutes; Shih-Sheng Jiang, National Health Research Institutes; Shu-Chen Liu, National Health Research Institutes; Jyh-Lyh Juang, National Health Research Institutes; Chao A. Hsiung, National Health Research Institutes

9:35 a.m. A Local Polynomial Method for Detection of Gene Copy Number Changes in Human Cancer—✦ Lexin Li, University of California, Davis; Hongzhe Li, University of California, Davis

9:55 a.m. Crossplatform Comparison of Microarray Gene Expression Intensities—✦ Kellie J. Archer, Virginia Commonwealth University; Daniela Puiu, Virginia Commonwealth University; Catherine I. Dumur, Virginia Commonwealth University

10:15 a.m. Floor Discussion

478 MCC-208 C

✺ **Weighting for Nonresponse and Problems—Topic Contributed**

Section on Survey Research Methods, Social Statistics Section

Organizer(s): Phillip S. Kott, National Agricultural Statistics Service

Chair(s): David R. Judkins, Westat

8:35 a.m. Propensity Models versus Weighting Cell Approaches to Nonresponse Adjustment: a Methodological Comparison—✦ James Chromy, RTI International; Peter Siegel, RTI International; Elizabeth Copello, RTI International

8:55 a.m. Modeling and Polishing of Nonresponse Propensity—✦ Hongsheng Hao, Westat; David R. Judkins, Westat

9:15 a.m. 'No' Is the Easiest Answer: Using Calibration To Assess Nonignorable Nonresponse in the 2002 Census of Agriculture—✦ Phillip S. Kott, National Agricultural Statistics Service

9:35 a.m. Using Calibration To Fit Nonresponse and Undercoverage Models—✦ Theodore Chang, University of Virginia; Phillip S. Kott, National Agricultural Statistics Service

9:55 a.m. Identifying Likely Duplicates by Record Linkage in a Survey of Prostitutes—✦ Thomas R. Belin, University of California, Los Angeles; Hemant Ishwaran, Cleveland Clinic Foundation; Naihua Duan, University of California, Los Angeles; Sandra H. Berry, RAND Corporation; David E. Kanouse, RAND Corporation

10:15 a.m. Floor Discussion

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

479 MCC-205 D

Community-based Learning in Undergraduate Courses—Topic Contributed

Section on Statistical Education

Organizer(s): K. Scott Alberts, Truman State University

Chair(s): Matt Richey, St. Olaf College

Panelists: ✦ K. Scott Alberts, Truman State University
✦ Sheila Weaver, University of Vermont
✦ Eric Nordmoe, Kalamazoo College

10:05 a.m. Floor Discussion

JSM 2005
Proceedings Submissions Opened
August 1
Deadline for submitting is
October 21, 2005

480 MCC-208 A

✺ **Statistical Consulting: from Client Acquisition to Project Reporting—Topic Contributed**

Section on Statistical Consulting

Organizer(s): Karen Copeland, Boulder Statistics

Chair(s): Sue McGorray, University of Florida

Panelists: ✦ Charles Kincaid, COMSYS
✦ Susan Devlin, The Artemis Group
✦ Patrick O'Meara, Pat O'Meara Associates, Inc.
✦ Karen Copeland, Boulder Statistics

10:15 a.m. Floor Discussion

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

481 MCC-201 AB

✺ **Neurons, Spikes, and Time Course Data—Contributed**

Biometrics Section, WNAR

Chair(s): Jeffrey Spence, The University of Texas Southwestern Medical Center at Dallas

8:35 a.m. The Analysis of Multiple Neuron Spike Trains—✦ Zhenglei Gao, Duke University; Michael Lavine, Duke University; Paul Marriott, University of Waterloo

8:50 a.m. A Maximum Likelihood Approach to Assessing Neuron-muscle Relationship—✦ Vera Bulaevskaya, Carnegie Mellon University; Robert E. Kass, Carnegie Mellon University

9:05 a.m. Improved Models for Analysis of Motor-cortical Signals—✦ Alex L. Rojas, Carnegie Mellon University; Anthony E. Brockwell, Carnegie Mellon University

9:20 a.m. Nonlinear Hyperbolastic Models and Applications in Craniofacial and Stem Cell Growth—✦ Zoran Bursac, University of Arkansas for Medical Sciences; Mohammad Tabatabai, Cameron University; David K. Williams, University of Arkansas for Medical Sciences

9:35 a.m. A Generalized Growth Curve Model, Related Testing, and Comparison of Growth Rates—✦ Sabyasachi Bhattacharya, Iowa State University

9:50 a.m. Weighted Estimating Equation for Case-control Study with Possibly Correlated Times—✦ Sangwook Kang, The University of North Carolina at Chapel Hill; Jianwen Cai, The University of North Carolina at Chapel Hill

10:05 a.m. Changepoint Modeling To Evaluate a Rule for Prostate-specific Antigen (PSA) Failure When the Rule Is Defined as Three Consecutive PSA Rises—✦ Carine Bellera, McGill University; James Hanley, McGill University; Lawrence Joseph, McGill University; Peter Albertsen, University of Connecticut; Juanita Crook, Ottawa Regional Cancer Center

CAMBRIDGE

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Patsy Haccou, Peter Jagers, and Vladimir A. Vatutin

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S. Robin, F. Rodolphe, and S. Schbath

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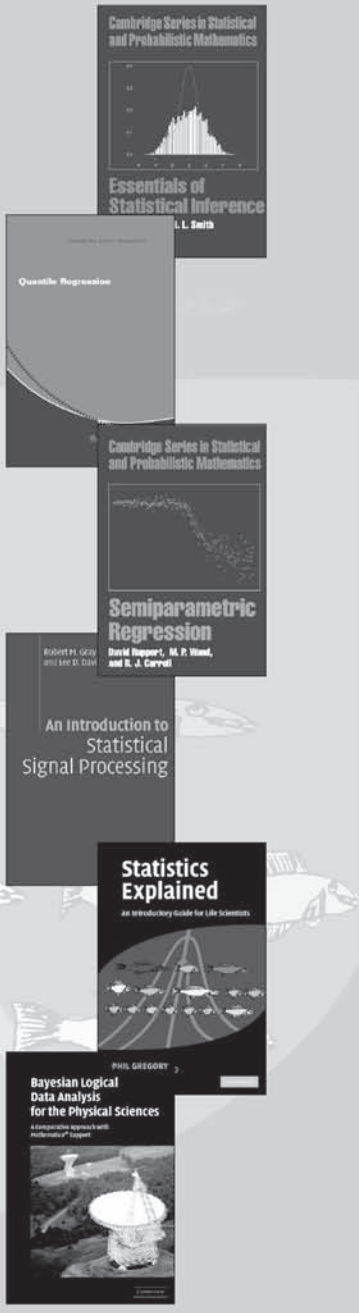
Edited by Peter J. Carrington, John Scott, and Stanley Wasserman



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482 MCC-200 G

☆ Mapping Quantitative Trait Loci—Contributed

Biometrics Section, WNAR

Chair(s): Ken Burnham, U.S. Geological Survey/Colorado State University

8:35 a.m. Nonparametric Functional Interval Mapping of QTL—✦ Jie Yang, University of Florida; George Casella, University of Florida

8:50 a.m. Estimating QTL Parameters under Selective Genotyping—✦ Jaya Satagopan, Memorial Sloan-Kettering Cancer Center; Saunak Sen, University of California, San Francisco; Gary Churchill, The Jackson Laboratory

9:05 a.m. The Impact of Transformation in Quantitative Genetics Analysis—✦ Mariza de Andrade, Mayo Clinic

9:20 a.m. Don't Use the Bootstrap for QTL Mapping—✦ Ani Manichaikul, Johns Hopkins University; Karl W. Broman, Johns Hopkins University

9:35 a.m. Bayesian Hierarchical Model for Detecting QTLs—✦ Susan Simmons, University of North Carolina, Wilmington; Haikun Bao, University of North Carolina, Wilmington

9:50 a.m. Strategies for Fine Mapping of QTL in Complex Pedigrees Using Combined Linkage and Linkage Disequilibrium Method—✦ Natascha Vukasinovic, Monsanto; Fengxing Du, Monsanto

10:05 a.m. Floor Discussion

483 MCC-200 H

✺ Topics in Experimental Design—Contributed

Biometrics Section, Biopharmaceutical Section, WNAR

Chair(s): Guosheng Yin, The University of Texas M. D. Anderson Cancer Center

8:35 a.m. The Mean-squared Error D-optimum Design Criterion with Applications to Nonlinear Experiments—✦ Takashi Daimon, Translational Research Informatics Center; Goto Masashi, Biostatistical Research Association

8:50 a.m. On a Modified Ehrenfest Urn Design—✦ Yung-Pin Chen, Lewis & Clark College

9:05 a.m. Model-based Designs for Phase I Cancer Clinical Trials—✦ Pei-Ling Chu, Novo Nordisk, Inc.; Yong Lin, The University of Medicine and Dentistry of New Jersey; Weichung J. Shih, The University of Medicine and Dentistry of New Jersey

9:20 a.m. Optimal Design of Experiments Accounting for Potential Missing Trials—✦ InYoung Baek, SUNY, Stony Brook

9:35 a.m. Sample Size and Statistical Power Assessing the Effect of Interventions in the Context of Mixture Distributions with Detection Limits—✦ Haitao Chu, Johns Hopkins University; Lei Nie, University of Maryland Baltimore County; Stephen R. Cole, Johns Hopkins University

9:50 a.m. A New Interim Monitoring Statistic for Group Sequential Clinical Trials—✦ Joshua Tebbs, Kansas State University; Barry K. Moser, Duke University

10:05 a.m. Internal Pilots for Repeated Measures and Multivariate Linear Models—✦ Sola Park, The University of North Carolina at Chapel Hill; Keith E. Muller, University of North Carolina at Chapel Hil

484 MCC-103 C

Asymptotic Methods and Statistical Theory—Contributed

IMS

Chair(s): Margaret Short, Los Alamos National Laboratory

8:35 a.m. Convergence Rate of MLE in Generalized Linear and Nonlinear Mixed-effects Models—✦ Nie Lei, University of Maryland Baltimore County

8:50 a.m. Asymptotic Expansion of the Null Distribution of F-statistic for One-way ANOVA under Nonnormality—✦ Solomon Harrar, South Dakota State University; Arjun K. Gupta, Bowling Green State University

9:05 a.m. Asymptotics for Sliced Average Variance Estimation—✦ Yingxing Li, The University of Hong Kong; Lixing Zhu, The University of Hong Kong

9:20 a.m. Empirical Bayesian Estimation for Bivariate Binary Data with Covariates—✦ Ananya Roy, University of Florida; Malay Ghosh, University of Florida

9:35 a.m. A Class of Probability-generating Functions Inspired by Shock Model—✦ Satrajit Roychoudhury, New Jersey Institute of Technology; Manish Bhattacharjee, New Jersey Institute of Technology

9:50 a.m. Generation of the Distribution of the Test for Testing a General Linear Hypothesis under Heteroscedasticity—✦ Hubert J. Chen, National Cheng Kung University; Miin-Jye Wen, National Cheng Kung University

10:05 p.m. Floor Discussion

485 MCC-208 B

✺ Risk Factors for Health—Contributed

Section on Health Policy Statistics, Social Statistics Section, WNAR

Chair(s): Richard R. Carlson, HealthPartners

8:35 a.m. Revised Estimates of the Risk Factors for Psychiatric Diseases in the United States—✦ Elizabeth Savoca, Smith College

8:50 a.m. A Digraph Model of Alcohol Ecology—✦ Yasmin Said, George Mason University; Edward J. Wegman, George Mason University

9:05 a.m. Who Defines Race? The Influence of Self- and Other-identified Race on Health—✦ Sarah E. Boslaugh, Washington University School of Medicine

9:20 a.m. Using the Cumulative Logit Model To Enhance Interpretation of Health Status Measure—✦ Joseph Cappelleri, Pfizer, Inc.

9:35 a.m. Not Doing It Until 'I do': a Simulated Experiment of the Efficacy of Sexual Abstinence Pledges Using Mahalanobis Matching—✦ Janet Rosenbaum, Harvard University

9:50 a.m. Ecological Inference in the Use of Aggregate Consumer Data for Health Communication Planning: Avoiding Ecological Fallacies—✦ William Pollard, Centers for Disease Control and Prevention

10:05 a.m. Floor Discussion

486 MCC-103 D

Regression II—Contributed

Section on Nonparametric Statistics

Chair(s): Kagba Suaray, University of California, Riverside

8:35 a.m. Large Sample Properties of Shape-restricted Regression Estimators with Smoothness Adjustments—✦ Jayanta Pal, University of Michigan

8:50 a.m. Affine Equivariant Rank-based and Generalized Rank Estimators for Multivariate Linear Models—✦ Majeda Salman, University of Bahrain; Joe McKean, Western Michigan University

9:05 a.m. Estimating Residual Variance in Nonparametric Regression Using Least Squares—✦ Tiejun Tong, University of California, Santa Barbara; Yuedong Wang, University of California, Santa Barbara

9:20 a.m. Model Choice: Universal Principles and Approximation—✦ Henrike Weinert, University of Dortmund; Daniel J. Nordman, University of Wisconsin, La Crosse; Ursula Gather, University of Dortmund; Laurie Davies, University of Duisburg-Essen

9:35 a.m. A Lack-of-fit Test for Nonlinear Regression Models with Local Linear Regression Techniques—✦ Chin-Shang Li, St. Jude Children's Research Hospital

9:50 a.m. Nonlinear Varying Coefficient Models—✦ Yang Wang, The Pennsylvania State University

10:05 a.m. Floor Discussion

487 MCC-L100 C

✺ Sample Size and Power—Contributed

Biopharmaceutical Section, WNAR

Chair(s): Kapildeb Sen, Bristol-Myers Squibb Company

8:35 a.m. Power Consideration in Clinical Outcome Study with Uncertain Endpoints—✦ Hongwei Wang, Merck & Co., Inc.; Cong Chen, Merck & Co., Inc.; Steven Snapinn, Amgen Inc.

8:50 a.m. Power of a Test with Multiple Subtests in a Longitudinal Data Study—✦ Jiannong Wang, Novartis Pharmaceuticals

9:05 a.m. The Loss in Power When the Test of Differential Expression Is under a Wrong Scale—✦ Shuguang Huang, Eli Lilly and Company; Yongming Qu, Eli Lilly and Company

9:20 a.m. Nonproportional Hazards in Sequential Trials—✦ Qi Jiang, Amgen Inc.; Steven Snapinn, Amgen Inc.

9:35 a.m. Methods of Adjusting Sample Size for Noncompliance in Studies with Intent-to-treat Analyses of Survival Endpoints—✦ Patricia L. Stephenson, Rho, Inc.; Robert J. Gray, Dana-Farber Cancer Institute, Harvard School of Public Health

9:50 a.m. Curtailment Procedure for Selecting among Bernoulli Populations—✦ Elena Buzaianu, Syracuse University; Pinyuen Chen, Syracuse University

10:05 a.m. Floor Discussion

488 MCC-210 AB

Labor and Statistical Education—Contributed

Business and Economics Statistics Section, Section on Statistical Education

Chair(s): Brian C. Monsell, U.S. Census Bureau

8:35 a.m. On-the-job Search and the Minimum Wage—✦ Anne Polivka, Bureau of Labor Statistics; Rosemary Hyson, Mercer Human Resource Consulting

8:50 a.m. Decomposing Wage Distribution Changes with Self-selection—✦ Brian McCall, University of Minnesota; Alexandru Lefter, University of Minnesota

9:05 a.m. Dealing with Job Crossover in Hiring Evaluations—✦ Marika Litras, U.S. Department of Labor; Charles McGhee, U.S. Department of Labor; Michael Sinclair, U.S. Department of Labor

9:20 a.m. Undergraduate Business Degrees and MBA Academic Performance—✦ Andrew Braunstein, Iona College

9:35 a.m. Statistics Journals: How Schools of Business Use Them—✦ Mary Whiteside, The University of Texas at Arlington; Mark E. Eakin, The University of Texas at Arlington

9:50 a.m. The Application of Statistics to Economics—✦ Hyun Suk Lee, Statistics Research Place

10:05 a.m. Floor Discussion

489 MCC-211 C

✺ Topics in Survey Research—Contributed

General Methodology, Section on Survey Research Methods, Social Statistics Section

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

8:35 a.m. Sequential Sampling Inspection Protocols Could Save Money in Real Time: a Case in Connecticut in Point—✦ Nitis Mukhopadhyay, University of Connecticut

8:50 a.m. Model-assisted Imputation Strategies for the Longitudinal Survey of Immigrants to Canada: Wave 2 Imputation and Validation of Wave 1 Imputation Model—✦ Asma Alavi, Statistics Canada

9:05 a.m. Migrating to a Web-based Format While Improving the Edit Process for the Public Libraries Survey—✦ Joanna F. McLaughlin, U.S. Census Bureau; Terri L. Craig, U.S. Census Bureau; Patricia O'Shea, U.S. Census Bureau

9:20 a.m. Linear and Loglinear Models Based on Generalized Inverse Sampling Scheme—✦ Soumi Lahiri, New Jersey Institute of Technology; Sunil K. Dhar, New Jersey Institute of Technology

9:35 a.m. Collecting Blood and Urine: the Experience of the Canadian Health Measures Survey—✦ Rebecca Morrison, Statistics Canada; Suzelle Giroux, Statistics Canada

9:50 a.m. Weighting Challenges When Dealing with a Large-scale Longitudinal Survey—✦ Charles Tardif, Statistics Canada

10:05 a.m. Floor Discussion

490 MCC-211 D

Regression Topics—Contributed

General Methodology

Chair(s): Jun Li, Rutgers, The State University of New Jersey

8:35 a.m. Decomposing the Interaction Sum of Squares in Two Factor Experiments When Both Factors Are Quantitative—✦ Charles Monlezun, Louisiana State University

8:50 a.m. On the Mixture of Regressions—✦ Derek Young, The Pennsylvania State University

9:05 a.m. Marginal Regression Analysis of Longitudinal Data with Irregular, Biased Sampling—✦ Petra Buzkova, The University of North Carolina at Chapel Hill; Thomas Lumley, University of Washington

9:20 a.m. An Alternate Version of the Conceptual Predictive Statistic—✦ Joseph Cavanaugh, The University of Iowa; Andrew Neath, Southern Illinois University, Edwardsville; Simon Davies, Pfizer, Inc.

9:35 a.m. A Study of a Partial F Test for a Multiple Linear Regression Model—✦ Mortaza Jamshidian, California State University, Fullerton; Wei Liu, University of Southampton

9:50 a.m. On the Probability of Exploiting Factor Effects through Experimentation—✦ Hungjen Wang, Massachusetts Institute of Technology; Daniel Frey, Massachusetts Institute of Technology

10:05 a.m. Fourier Methods for Estimating Dimension Reduction Subspace When the Distribution of Predictors Is Arbitrary—✦ Yu Zhu, Purdue University; Peng Zeng, Purdue University

491 MCC-213 AB

✺ Anomaly Detection, Dimension Reduction, and Models—Contributed

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

Chair(s): Juergen Symanzik, Utah State University

8:35 a.m. Statistical Anomaly Detection and Dynamic Data Exploration—✦ Colin Goodall, AT&T Labs-Research; Sylvia Halasz, AT&T Labs-Research; Guy Jacobson, AT&T Labs-Research; Arnold Lent, AT&T Labs-Research; Simon Tse, AT&T Labs-Research; Deepak Agarwal, AT&T Labs-Research

8:50 a.m. Regression Graphics and Dimension Reduction in Exponential Family—✦ Siamak Noorbaloochi, VA HSR/University of Minnesota; David B. Nelson, VA HSR/University of Minnesota

9:05 a.m. PRIM-PCA: a Novel Bump-hunting Search Strategy—✦ Jean-Eudes J. Dazard, Case Western Reserve University; Sunil J. Rao, Case Western Reserve University

9:20 a.m. Biplots for Visualizing Linear Models—✦ Heike Hofmann, Iowa State University

9:35 a.m. Computing and Visualizing Effects from Loglinear Models—✦ Oksana Yakhnenko, Iowa State University; Heike Hofmann, Iowa State University

9:50 a.m. Following Traces of Lost Models—✦ Simon Urbanek, AT&T Labs-Research

10:05 a.m. Floor Discussion

492 MCC-103 F

✯ Monitoring and Modeling Air Quality and Its Health Effects—Contributed

Section on Statistics and the Environment, Section on Health Policy Statistics, Section on Statistics in Epidemiology, ENAR, WNAR, Biometrics Section

Chair(s): Brian J. Smith, The University of Iowa

8:35 a.m. Bayesian Model Averaging in Semiparametric Models of Air Quality and Respiratory Health—✦ Chava Zibman, The University of Chicago

8:50 a.m. Model Mining: a Case Study in Air Pollution and Mortality—✦ Ciprian Crainiceanu, Johns Hopkins University

9:05 a.m. Mixture Periodic Autoregressive Time-series Models—✦ Qin Shao, The University of Toledo

9:20 a.m. Estimating Chronic Effects of Fine Particles (PM2.5) on Adult Mortality at Different Spatial and Temporal Scales—✦ Sorina Eftim, Johns Hopkins University; Francesca Dominici, Johns Hopkins University; Aidan McDermott, Johns Hopkins University; Scott Zeger, Johns Hopkins University; Jonathan M. Samet, Johns Hopkins University

9:35 a.m. A Study of Roadside Remote Sensing Mobile Emissions Data—✦ Wendy Meiring, University of California, Santa Barbara

9:50 a.m. Exploding Houses, Coalbed Methane, and Trends—✦ George Heine, BLM

10:05 a.m. Floor Discussion

493 MCC-208 D

✺ Frames and Design Issues for Business Survey—Contributed

Section on Survey Research Methods, Section on Government Statistics

Chair(s): Rita Jo Petroni, U.S. Census Bureau

8:35 a.m. Optimal Coordination of Samples in Business Surveys—✦ Lenka Mach, Statistics Canada; Ioana Schiopu-Kratina, Statistics Canada; Jean-Marc Fillion, Statistics Canada; Philip Reiss, Columbia University

8:50 a.m. The Redesign of the Canadian Business Register—✦ Stuart Pursey, Statistics Canada

9:05 a.m. Defining the Sampling Frame for the Convenience Store Industry in a Business Setting—✦ Eric Falk, Ernst & Young LLP; Glenn D. White, Jr., Ernst & Young LLP

9:20 a.m. Overview of the Establishment Sampling Frame, Computer Edits, and Imputation Methodology Used for the 2002 Commodity Flow Survey—✦ David Kinyon, U.S. Census Bureau; Carol S. King, U.S. Census Bureau

9:35 a.m. Business Survey Response Rates: Can They Be Improved?—✦ Glenn D. White, Jr., Ernst & Young LLP; Amy Luo, Ernst & Young LLP

9:50 a.m. Floor Discussion

494 MCC-202 AB

Issues in Surveillance, Census, and Mortality Studies—Contributed

Section on Statistics in Epidemiology

Chair(s): Carol Y. Lin, Emory University

8:35 a.m. Estimation of United States Decennial Life Tables: 1999–2001—✦ Rong Wei, National Center for Health Statistics; Lester Curtin, Centers for Disease Control and Prevention; Robert Anderson, National Center for Health Statistics; Elizabeth Arias, National Center for Health Statistics

8:50 a.m. Changes of Mortality from Five Leading Causes by Socioeconomic Status: U.S. Residents, 1990–2000—✦ Jay H. Kim, National Center for Health Statistics; Jay J. Kim, National Center for Health Statistics; Paul D. Williams, National Center for Health Statistics

9:05 a.m. Profiles of COX-2 Users and Nonusers—✦ Brian L. James, Pfizer, Inc./UMDNJ

9:20 a.m. Methods Assessing Contribution of Diseases to Disparity in Life Expectancy—✦ Charles Lin, U.S. Census Bureau; Norman Johnson, U.S. Census Bureau

9:35 a.m. Temporal Relationship at the Population Level between Antimicrobial Use and Streptococcus Pneumoniae Penicillin Resistance—✦ Robertino M. Mera, GlaxoSmithKline

9:50 a.m. Association of Race/Ethnicity with Prevalence of Epilepsy and Its Treatment with Antiepileptic Drugs in Nursing Home Admissions—✦ Yanping Chang, Eli Lilly and Company; Lynn E. Eberly, University of Minnesota; Susan L. Harms, University of Minnesota; Judith M. Garrard, University of Minnesota

10:05 a.m. Floor Discussion

495 MCC-205 B

✺ New Developments and Applications in the Tools of Social Statistics: Social Networks, Observational and Longitudinal Studies, Cluster Analysis—Contributed

Social Statistics Section, Section on Survey Research Methods

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

8:35 a.m. Estimating the Number of Foreign Bodies Injuries in Childhood with the Scale-up Method—✦ Silvia Snidero, Università degli Studi di Torino; Bruno Morra, Università degli Studi di Torino; Roberto Corradetti, Università degli Studi di Torino; Dario Gregori, Università degli Studi di Torino

8:50 a.m. Quantifying Elephant Social Structure: Using a Bayesian Bilinear Mixed-effects Model To Elicit Qualities of Elephant Behavior—✦ Eric Vance, Duke University

9:05 a.m. Estimation and Examination of Covariance Structures of Longitudinal Social Network Data—✦ Anton Westveld, University of Washington; Peter Hoff, University of Washington

9:20 a.m. Use of Constructed Observational Studies To Assess Ignorability—✦ Jennifer Hill, Columbia University

9:35 a.m. The Relationship between Hours Worked and Alcohol Use Disorders—✦ Richard Bryant, University of Missouri, Rolla; V. A. Samaranayake, University of Missouri, Rolla

9:50 a.m. Comparison of Spatial Characteristics of Local Air Quality Reported Using the Air Quality Index in the State of North Carolina of 1999 and 2004—✦ Kuo-Ping Li, The University of North Carolina at Chapel Hill; Chirayath Suchindran, The University of North Carolina at Chapel Hill

10:05 a.m. Clustering Linkage Methods: Humor to a Statistician—✦ Wade Watkins, University of Alabama; Bruce Barrett, University of Alabama

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

496 MCC-209 AB

Statistics in Forensics—Invited

***CHANCE*, Business and Economics Statistics Section, Section on Statisticians in Defense and National Security, WNAR, Biometrics Section**

Organizer(s): Michael Lavine, Duke University

Chair(s): Michael Lavine, Duke University

10:35 a.m. Some Aspects of Our Work on the NRC Bullet Committee—✦ Clifford Spiegelman, Texas A&M University/Texas Transportation Institute; Karen Kafadar, University of Colorado, Denver

11:00 a.m. On Forensic Decision Analysis—✦ David W. Peterson, peopleclick

11:25 a.m. Statistical Issues for DNA Profiles—✦ Bruce Weir, North Carolina State University

11:50 a.m. Disc: Albyn Jones, Reed College

12:10 p.m. Floor Discussion

497 MCC-L100 A

Genomic Applications—Invited

IMS, Biopharmaceutical Section

Organizer(s): Ingo Ruczinski, Johns Hopkins University

Chair(s): Ingo Ruczinski, Johns Hopkins University

10:35 a.m. The Genomes of Recombinant Inbred Lines—✦ Karl W. Broman, Johns Hopkins University

11:05 a.m. On Using Permutation Tests To Compare Multiple Variables Simultaneously—✦ Greg DiRienzo, Harvard School of Public Health

11:35 a.m. Mixture Modeling for Genome-wide Localization of Transcription Factors—✦ Sunduz Keles, University of Wisconsin, Madison

12:05 p.m. Floor Discussion

498 MCC-200 H

Methodological Advances in Prognostic Stratification—Invited

Section on Statistics in Epidemiology, WNAR

Organizer(s): Linda J. Young, University of Florida

Chair(s): Linda J. Young, University of Florida

10:35 a.m. Is There a Role for the Hazard Ratio in Determining a Cutoff for Prognostic Stratification?—✦ Wendy B. London, University of Florida

11:05 a.m. Extreme Regression Models for Prognosis—✦ Michael LeBlanc, Fred Hutchinson Cancer Research Center

11:35 a.m. Methods for Categorizing a Prognostic Variable in a Multivariable Setting—✦ Alex Smith, Pacific Data Designs, Inc.; Madhu Mazumdar, Weill Medical College of Cornell University; Jennifer Bacik, Memorial Sloan-Kettering Cancer Center

12:05 p.m. Floor Discussion

499 MCC-205 C

✺ **New Strategies for Telephone Samples—Invited**

Section on Survey Research Methods, Social Statistics Section

Organizer(s): Charlotte Steeh, Georgia State University

Chair(s): Charlotte Steeh, Georgia State University

10:35 a.m. Dual-frame Landline/Cellular Telephone Survey Design—✦ James M. Lepkowski, University of Michigan; Sun-Woong Kim, Dongguk University

11:00 a.m. Methods of Surveying All Households with Telephone Service—J. Michael Brick, Westat; ✦ Sarah Dipko, Westat; Stanley Presser, Joint Program in Survey Methodology; Clyde Tucker, Bureau of Labor Statistics; Angela Yuan, Westat

11:25 a.m. Single-frame versus Multiple-frame Designs for Telephone Samples—✦ Charlotte Steeh, Georgia State University

11:50 a.m. Disc: Brian Meekins, Bureau of Labor Statistics

12:10 p.m. Floor Discussion

500 MCC-205 B

Q-BANK: an Interagency Database of Pretested Survey Questions—Invited

Section on Government Statistics, Social Statistics Section

Organizer(s): Diane K. Willimack, U.S. Census Bureau

Chair(s): Gordon B. Willis, National Cancer Institute

10:35 a.m. Q-BANK: Development of a Tested-question Database—✦ Kristen S. Miller, National Center for Health Statistics

11:00 a.m. Design of the Q-BANK: Determining Concepts, Content, and Standards—✦ Paul C. Beatty, National Center for Health Statistics; Gordon B. Willis, National Cancer Institute; Jennifer E. Hunter, U.S. Census Bureau; Kristen S. Miller, National Center for Health Statistics; Jennifer Rothgeb, U.S. Census Bureau

11:25 a.m. Broadening the Horizons of Q-BANK: Expanding the Framework To Encompass Self-administered and Establishment Surveys—Cleo Redline, National Science Foundation; ✦ Jennifer E. Hunter, U.S. Census Bureau; Rebecca L. Morrison, U.S. Census Bureau; Diane K. Willimack, U.S. Census Bureau; Roberta Sangster, Bureau of Labor Statistics

11:50 a.m. Disc: Norman Bradburn, NORC at the University of Chicago

12:10 p.m. Floor Discussion

501 MCC-L100 C

Wald III—Invited

IMS

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

Chair(s): Michael Pitt, The University of Warwick

10:35 a.m. Large Deviations in Different Contexts—✦ S.R. Srinivasa Varadhan, New York University

12:00 p.m. Floor Discussion

502 MCC-200 I

New Frontiers in Survival Analysis—Invited

ENAR, Section on Nonparametric Statistics, WNAR, Biometrics Section

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

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

10:35 a.m. Semiparametric Methods for the AFT Model—✦ Zhiliang Ying, Columbia University

11:00 a.m. Semiparametric Pseudo Z-estimation and Case-cohort Studies—✦ Bin Nan, University of Michigan

11:25 a.m. Semiparametric Bivariate Linear Regression Model for Estimating the Effect of Treatment on Time to Disease Progression and Death—✦ Daniel Scharfstein, Johns Hopkins University

11:50 a.m. Disc: Lee-Jen Wei, Harvard University

12:10 p.m. Floor Discussion

503 MCC-201 AB

☆ Statistical Geoinformatics for Human Environment Interface in the mid-Atlantic Region of the United States—Invited

Environmental and Ecological Statistics, ENAR, WNAR, Section on Statistics and the Environment, Biometrics Section

Organizer(s): Ganapati P. Patil, The Pennsylvania State University

Chair(s): Ganapati P. Patil, The Pennsylvania State University

10:35 a.m. Surveillance Geoinformatics for Hotspot Detection, Prioritization, Intervention, and Sustainable Management—✦ Reza Modarres, George Washington University; ✦ Stephen Rathbun, The Pennsylvania State University; Charles Taillie, The Pennsylvania State University; Ganapati P. Patil, The Pennsylvania State University

10:55 a.m. Geospatial Data Mining and Knowledge Discovery for mid-Atlantic Watersheds for Sustainable Protection and Restoration—✦ Wayne L. Myers, The Pennsylvania State University; Mary McKenney-Easterling, The Pennsylvania State University; Bronson Griscom, Canaan Valley Institute; Kristen Hychka, The Pennsylvania State University; Joseph Bishop, The Pennsylvania State University; Robert Brooks, The Pennsylvania State University; George Constantz, Canaan Valley Institute; Ganapati P. Patil, The Pennsylvania State University; Charles Taillie, The Pennsylvania State University; Gian Rocco, The Pennsylvania State University

11:15 a.m. Development, Testing, and Application of Ecological and Socioeconomic Indicators for Integrated Assessment of Aquatic Ecosystems of the Atlantic Slope in the mid-Atlantic States—✦ Denice H. Wardrop, Pennsylvania State Cooperative Wetlands Center; Ganapati P. Patil, The Pennsylvania State University; Charles Taillie, The Pennsylvania State University; Wayne L. Myers, The Pennsylvania State University; Kent Thornton, FTN Associates, LLC

11:35 a.m. Disc: Barry D. Nussbaum, U.S. Environmental Protection Agency

11:55 a.m. Disc: Bo Ranneby, Swedish University of Agricultural Sciences

12:15 p.m. Floor Discussion

504 MCC-L100 F

✺ ☆ Statistical Applications in Finance and Compliance—Invited

Section on Quality and Productivity

Organizer(s): Fred Faltin, The Faltin Group

Chair(s): Martha Gardner, GE Global Research

10:35 a.m. Six Sigma Quality: Turning Sarbanes-Oxley into a Win for the Corporation—✦ Fred Faltin, The Faltin Group; Donna Faltin, The Faltin Group

11:05 a.m. The Role of Statistics and Metrics in Data Governance and Compliance Issues—✦ Michele Drgon, Data Probity

11:35 a.m. Transparency in Capital Markets: Exposing Bad Apples or a Bad Bushel?—✦ David Souder, University of Minnesota; Jared Harris, University of Minnesota

12:05 p.m. Floor Discussion

505 MCC-200 DE

✺ ☆ Nonrandomized Pharmaceutical Studies—Invited

Section on Health Policy Statistics, Section on Physical and Engineering Sciences, Business and Economics Statistics Section, Biometrics Section, WNAR, Section on Quality and Productivity, Biopharmaceutical Section

Organizer(s): W. Scott Clark, Eli Lilly and Company

Chair(s): Shiva Sajjan, Merck & Co., Inc.

10:35 a.m. Lilly Experience with Nonstandard Clinical Studies—✦ Pandurang M. Kulkarni, Eli Lilly and Company; W. Scott Clark, Eli Lilly and Company

11:00 a.m. Do You Believe in RCTs or Observational Studies?—✦ Suna Barlas, Merck & Co., Inc.

11:25 a.m. Deriving Useful Information from Nonrandomized Studies: the Canadian Experience—✦ Muhammad Mamdani, University of Toronto

11:50 a.m. Disc: Robert L. Obenchain, U.S. Medical Outcomes Research, Eli Lilly

12:10 p.m. Floor Discussion

506 MCC-200 ABC

✺ Industry Use of SNPs/Haplotypes and in Clinical Trials—Invited

Biopharmaceutical Section, WNAR

Organizer(s): Peggy Wong, Merck Research Laboratories

Chair(s): Bret Musser, Merck Research Laboratories

10:35 a.m. Examples of the Use of Haplotyping in Clinical Trials—✦ Bonnie Fijal, Johnson & Johnson

11:00 a.m. Use of SNPs/Haplotypes To Study Complex Diseases in Clinical Trials—✦ Michael Man, Pfizer, Inc.

11:25 a.m. Disc: Patricia Ruppel, DKB Technologies

11:50 p.m. Floor Discussion

Invited Panels 10:30 a.m.–12:20 p.m.

507 MCC-208 A

New Developments in Funding Opportunities at the NSF—Invited

National Science Foundation, Social Statistics Section, IMS, WNAR, Biometrics Section

Organizer(s): Shulamith T. Gross, National Science Foundation

Chair(s): Xuming He, University of Illinois, Urbana-Champaign

Panelists: ✦ Cheryl Eavey, National Science Foundation
✦ Shulamith T. Gross, National Science Foundation
✦ Wen Masters, National Science Foundation
✦ Robert Serfling, University of Texas, Dallas

12:05 p.m. Floor Discussion

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

508 MCC-211 C

✺ ☆ Bayesian Modeling in Spatial Statistics—Topic Contributed

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

Organizer(s): Sudipto Banerjee, University of Minnesota

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

10:35 a.m. Hierarchical Bayesian Finite Element Parameterizations of Spatio-temporal Processes with Application to Ocean Dynamics—✦ Ali Arab, University of Missouri, Columbia; Christopher K. Wikle, University of Missouri, Columbia

10:55 a.m. Approximately Optimal Spatial Design Approaches for Environmental Health Data—✦ Gangqiang Xia, Duke University; Alan E. Gelfand, Duke University; Marie L. Miranda, Duke University

11:15 a.m. A Bayesian Approach to Spatio-temporal Interaction in Mortality Rates—✦ Gentry White, University of Missouri, Columbia

11:35 a.m. A Multivariate Space-time Dynamic Model—✦ Mark Fitzgerald, University of Colorado, DHSC; Stephan Sain, University of Colorado, DHSC; Craig Johns, University of Colorado, Denver

11:55 a.m. Coregionalized Lattice Models for Multivariate Areal Data—✦ Xiaoping Jin, University of Minnesota; Sudipto Banerjee, University of Minnesota; Bradley P. Carlin, University of Minnesota

12:15 p.m. Floor Discussion

509 MCC-200 G

✺ ✯ Challenges in Evaluating Endpoints in Cardiovascular Device Trials—Topic Contributed

Biopharmaceutical Section, WNAR

Organizer(s): Peter Lam, Boston Scientific Corporation; Roseann White, Guidant Corporation

Chair(s): Gajanan Bhat, Praecis Pharmaceuticals Incorporated

10:35 a.m. Recurrent Events Methods in the Analysis of Clinical Trials for Cardiac-resynchronization Therapy—✦ Rui Song, University of Wisconsin, Madison; Michael Kosorok, University of Wisconsin, Madison; Susan Anderson, University of Wisconsin, Madison; David Breiter, Guidant Corporation; David L. DeMets, University of Wisconsin, Madison; Elizabeth Galle, Guidant Corporation; Michael Gruber, University of Wisconsin, Madison

11:00 a.m. Functional Linear Model with Histogram Covariates—✦ Chunlei Ke, St. Jude Medical, Inc.; Yong Wang, St. Jude Medical, Inc.

11:25 a.m. Missing Data and Other Problems Inherent in Analyzing Clinical Data Obtained from Programmable Medical Devices—✦ Andrew Mugglin, Medtronic, Inc.

11:50 a.m. Disc: Barathi Sethuraman, St. Jude Medical, Inc.

12:10 p.m. Floor Discussion

510 MCC-210 AB

✺ ✯ Innovations in Prospective Anomaly Detection for Biosurveillance—Topic Contributed

Section on Statisticians in Defense and National Security

Organizer(s): Howard Burkom, Johns Hopkins University

Chair(s): Howard Burkom, Johns Hopkins University

10:35 a.m. Wavelet-based Monitoring Methods for the Rapid Detection of Bioterrorist Attacks—Galit Shmueli, University of Maryland; ✦ Bernard Dillard, University of Maryland

10:55 a.m. A Study of the Performance of Multivariate Forecast-based Surveillance Schemes for Infectious Diseases on Multiple Locations—✦ Bo Hong, Pioneer Hi-Bred International; J. Michael Hardin, University of Alabama

11:15 a.m. The Impact of Time of Periods on Sensitivity and Specificity of Aberration Detection Methods—✦ Lori Hutwagner, Centers for Disease Control and Prevention; Carol Knowles, Centers for Disease Control and Prevention

11:35 a.m. Time-distributed Effect of Exposure and Infectious Outbreaks—✦ Elena Naumova, Tufts University; Ian MacNeill, The University of Western Ontario

11:55 a.m. A Workflow Scan Statistic—✦ Luiz Duczmal, University Federal de Minas Gerais; David L. Buckeridge, VA Palo Alto Health Care System/Stanford University

12:15 p.m. Floor Discussion

511 MCC-202 AB

✺ A Procedure to Differentiate Level versus Structural Relationships in Correlational Data—Topic Contributed

Social Statistics Section

Organizer(s): Ernest Davenport, University of Minnesota

Chair(s): Hee-Choon Shin, NORC at the University of Chicago

10:35 a.m. A Regression-based Procedure to Parse Level versus Structure with Theoretical and Practical Implications—✦ Ernest Davenport, University of Minnesota

10:55 a.m. Finding a Pattern of High School Coursework Predictive of High Achievement—✦ Mark Davison, University of Minnesota

11:15 a.m. Identifying and Validating Criterion-related Patterns in Psychological Assessment: an Illustration Using MMPI-2 Clinical Scales—✦ Chi Keung Chan, University of Minnesota

11:35 a.m. The Pattern of Opportunity, Racial Fairness, and the Allocation of Educational Opportunity to Post-secondary Institutions—✦ Steve Culpepper, University of Minnesota

11:55 a.m. Disc: Sanford Weisberg, University of Minnesota

12:15 p.m. Floor Discussion

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

512 MCC-208 C

✺ ✯ Biopharmaceutical Applications and Related Topics in Survival—Contributed

Biometrics Section, Biopharmaceutical Section, WNAR

Chair(s): Susan Willavize, Pfizer, Inc.

10:35 a.m. Additive Risk Model for Studies with Two-stage Data—Gang Li, University of California, Los Angeles; ✦ Yu Zhao, University of California, Los Angeles

10:50 a.m. Survival Analysis in Two-stage Randomization with Sequential Consent Information—✦ Abdus Wahed, University of Pittsburgh

11:05 a.m. Estimation of Survival Distributions in Two-stage Randomization Designs with Censored Survival Data—✦ Xiang Guo, North Carolina State University; Anastasios A. Tsiatis, North Carolina State University

11:20 a.m. Estimating the Cumulative Incidence of a Competing Risk When Data Are Subject to Left-truncation—✦ Bingshu E. Chen, National Institutes of Health; Joan Kramer, National Institutes of Health; Mark H. Greene, National Institutes of Health; Philip S. Rosenberg, National Cancer Institute

11:35 a.m. A Class of Supreme Version Tests for Comparing Cumulative Incidence—✦ Juhui Jiao, Roche

11:50 a.m. Sample-size Calculation for Composite Endpoints in Survival Trials—✦ Hongyan Zhang, Merck & Co., Inc.

12:05 p.m. Floor Discussion

513 MCC-208 D

✯ Interrater Agreement and Quality of Life—Contributed

Biometrics Section, Biopharmaceutical Section, WNAR

Chair(s): Bin Cheng, Columbia University

10:35 a.m. Latent Class Interexaminer Agreement Models with Applications in Oral Health Research—✦ Elizabeth Hill, Medical University of South Carolina; Elizabeth Slate, Medical University of South Carolina

10:50 a.m. Coefficients of Agreement for Fixed Observers Measuring a Continuous Quantity—✦ Michael Haber, Emory University; Huiman X. Barnhart, Duke University

11:05 a.m. A Tolerance Interval Approach for Assessment of Agreement in Method Comparison Studies with Repeated Measurements—✦ Pankaj Choudhary, The University of Texas Southwestern Medical Center at Dallas

11:20 a.m. Quality-of-life Instrument Validation: a Statistical Evaluation—✦ Stephanie Land, University of Pittsburgh

11:35 a.m. Confidence Interval Computation for a Novel Quality-of-life Measurement—✦ Richard McNally, Quintiles; Louise Johnson, Quintiles; Grant Runyan, Quintiles; Steve Gulyas, Pfizer, Inc.

11:50 a.m. Floor Discussion

514 MCC-211 B

✺ ✯ Topics in Gene Expression Data in Microarray Expirements—Contributed

Biometrics Section, WNAR

Chair(s): Lehana Thabane, McMaster University

10:35 a.m. Comparison of the Background Corrections for Spotted DNA Microarrays—✦ Dongseok Choi, Oregon Health & Science University; Jong S. Kim, Portland State University; Jin Wang, Portland State University; Saralees Nadarajah, University of Nebraska; Jodi Lapidus, Oregon Health & Science University

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Dr. Sarjinder Singh is an Assistant Professor at St. Cloud State University, St. Cloud, MN, U.S.A.. He has published over 80 research papers. He introduced ideas of higher order calibration, hybridizing imputation and calibration, bias filtration, hidden gangs, several new randomized response models, median estimation using two-phase sampling, and exact traditional linear regression estimator using calibration in survey sampling. In this book you can enjoy his new ideas such as: How Michael 'Selected' Amy.

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10:50 a.m. The S-score Algorithm in the Analysis of Gene Expression Data—✦ Richard E. Kennedy, Virginia Commonwealth University; Kellie J. Archer, Virginia Commonwealth University; Michael Miles, Virginia Commonwealth University

11:05 a.m. Another Look at PLIER—✦ Karla Ballman, Mayo Clinic; Terry M. Therneau, Mayo Clinic

11:20 a.m. The Effects of Normalization on the Correlation Structure of Microarray Data—✦ Xing Qiu, University of Rochester; Andrew I. Brooks, University of Rochester; Lev Klebanov, Charls University; Andrei Yakovlev, University of Rochester

11:35 a.m. Risk Modeling in Epidemiologic Studies Using Microarray Gene Expression Data—✦ Abhijit Dasgupta, National Cancer Institute

11:50 a.m. Effect of Normalization on Crossplatform Assessment of Microarray Experiments—✦ Sudeshna Adak, GE Global Research; Manohar Kollegal, GE Global Research; Richard Shippy, GE Healthcare; Timothy Sendera, GE Healthcare

12:05 p.m. Floor Discussion

515 MCC-211 A

✺ ☆ **Bayesian Methods in Biostatistics Setting—Contributed**

Biometrics Section, Section on Bayesian Statistical Science, WNAR

Chair(s): Ram C. Tiwari, National Cancer Institute

10:35 a.m. Automated Aggregation of Surveillance Data—Al Ozonoff, Boston University; ✦ Paola Sebastiani, Boston University

10:50 a.m. Bayesian Approach to Bivariate Change Point—✦ Pulak Ghosh, Georgia State University; Florin Vaida, University of California, San Diego

11:05 a.m. Bayesian Fixed and Random-effects Selection for Binary Response Models—✦ Satkartar Kinney, Duke University; David Dunson, National Institute of Environmental Health Sciences

11:20 a.m. Computation-based Discovery of Cis-regulatory Modules by Hidden Markov Model—✦ Jing Wu, Purdue University

11:35 a.m. Prediction of Random Intercepts and Slopes When Data Are Subject to a Detection Limit—✦ Renee Moore, Emory University

11:50 a.m. Floor Discussion

516 MCC-103 A

✺ **Issues in Observational Studies—Contributed**

General Methodology, Section on Statistics in Epidemiology, Social Statistics Section

Chair(s): Yodit Seifu, Novartis Pharmaceuticals

10:35 a.m. Estimation of Causal Effects Using Instrumental Variables—✦ Zhiqiang Tan, Johns Hopkins University

10:50 a.m. Causal Inference for Semiparametric Regression Models Using Higher-order Influence Functions—✦ Lingling Li, Harvard University

11:05 a.m. Higher-order Influence Functions of Robust Inference in Coarsened at-Random Data Models—✦ Eric Tchetgen, Harvard University

11:20 a.m. Estimation of Covariate Balanced Contrasts of Expectations—✦ David B. Nelson, VA HSR/University of Minnesota; Siamak Noorbaloochi, VA HSR/University of Minnesota

11:35 a.m. Estimating the False Discovery Rate Using Constrained Multinomial Likelihoods—✦ Irina Ostrovnaya, The University of Chicago; Dan Nicolae, The University of Chicago

11:50 a.m. A Call for Moderator Analysis via the Mixed-effects Model in Metaanalysis—✦ Wolfgang Viechtbauer, University of Maastricht

12:05 p.m. Floor Discussion

517 MCC-213 AB

Applications in Business and Economics II—Contributed

Business and Economics Statistics Section

Chair(s): Anne Polivka, Bureau of Labor Statistics

10:35 a.m. Forecasting eBay's Online Auction Prices Using Functional Data Analysis—✦ Shanshan Wang, University of Maryland

10:50 a.m. Models of Competitive Performance—✦ Simon J. Sheather, Texas A&M University

11:05 a.m. Regional Econometric Housing Forecast Accuracy—✦ Tom Fullerton, The University of Texas at El Paso

11:20 a.m. Multi-transactions Model for Constructing Housing Market Index—✦ George H. Wang, Commodity Futures Trading Commission; Andre H Gao, Mannie Mae

11:35 a.m. Why Do People Pay Taxes in China?—✦ Wei Yu, The University of Texas at Austin

11:50 a.m. Grouping Mutual Funds on the Basis of Performance—✦ Ranjan Maitra, Iowa State University

12:05 p.m. Floor Discussion

518 MCC-205 A

Statistical Applications in Health and Substance Abuse—Contributed

Section on Government Statistics, Social Statistics Section

Chair(s): Arthur Kendall, Social Research Consultants

10:35 a.m. Modeling Syndromic Indicators for New York and Los Angeles Metropolitan Areas from the National Health Surveys—✦ Abera Wouhib, National Center for Health Statistics; Paul D. Williams, National Center for Health Statistics; Myron Katzoff, National Center for Health Statistics

10:50 a.m. Alternative Methods for Estimating Influenza-associated Deaths in the United States—✦ William Thompson, U.S. Centers for Disease Control and Prevention; Eric Weintraub, U.S. Centers for Disease Control and Prevention; Lynnette Brammer, U.S. Centers for Disease Control and Prevention; Lori Hutwagner, U.S. Centers for Disease Control and Prevention; David Williamson, U.S. Centers for Disease Control and Prevention; Nancy Cox, U.S. Centers for Disease Control and Prevention; Keiji Fukuda, U.S. Centers for Disease Control and Prevention; David Shay, U.S. Centers for Disease Control and Prevention

11:05 a.m. Semiparametric Forecasting of U.S. Mortality—✦ Guanhua Lu, University of Maryland/NCHS; Ben Kedem, University of Maryland; Rong Wei, National Center for Health Statistics; Paul D. Williams, National Center for Health Statistics

11:20 a.m. A Parametric Approach To Measure the Effects of the 10th ICD Revision on Mortality—✦ YouSung Park, Korea University; Jai W. Choi, National Center for Health Statistics; Sungyong Kim, Korea University; Robert Anderson, National Center for Health Statistics; Doug Williams, National Center for Health Statistics; Arialdi Minino, National Center for Health Statistics

11:35 a.m. Survival Analysis of Length of Stay in Substance Abuse Treatment—✦ Maxime Bokossa, Synectics for Management Decisions, Inc.; Alisa Male, Synectics for Management Decisions, Inc.

11:50 a.m. Comparing State Mental Health and Substance Abuse Treatment Workforce: Synthetic Data Tabulation and Mapping—✦ Gary Huang, Synectics for Management Decisions, Inc.; Thomas Nephew, Synectics for Management Decisions, Inc.; Emmanuel Sikali, Synectics for Management Decisions, Inc.; Mindy Reiser, Synectics for Management Decisions, Inc.

12:05 p.m. Approximate Power Curves for Detecting Changes in Trend for Complex Surveys—✦ Maya Sternberg, U.S. Centers for Disease Control and Prevention

519 MCC-103 F

Nonparametric Testing—Contributed

Section on Nonparametric Statistics

Chair(s): Robert E. Neher, Air Force Institute of Technology

10:35 a.m. The Multivariate, Two-sample Dispersion Problem: a Statistical Depth Approach—✦ Asheber Abebe, Auburn University; Sai V. Nudurupati, Auburn University

10:50 a.m. A Weighted Multivariate Sign Test for Cluster-correlated Data—✦ Denis Larocque, HEC Montreal

11:05 a.m. Improving the Power of the Stratified Wilcoxon Rank Sum Test—✦ Xiaoming Li, Merck & Co., Inc.; Devan Mehrotra, Merck Research Laboratories

11:20 a.m. A New Class of Smooth Tests of Fit for Exponential Family (Koopman-Darmois) Distributions—✦ Mark Inlow, Rose-Hulman Institute of Technology

11:35 a.m. Statistical Tests for Scale in Univariate Population Setup—✦ Samuel L. Dolo, The University of Mississippi

11:50 a.m. An Efficient Test for Bivariate Location Problem—✦ Pamela Smith, The University of Mississippi

12:05 p.m. New Nonparametric Tests of Multivariate Locations and Scales Using Data Depth—✦ Jun Li, Rutgers, The State University of New Jersey; Regina Liu, Rutgers, The State University of New Jersey

520 MCC-103 B

Clustering, Factor Analysis, and Correlation—Contributed

General Methodology, Social Statistics Section

Chair(s): Phyllis Gimotty, University of Pennsylvania School of Medicine

10:35 a.m. Two More Methods of Testing Equality of Two Dependent Correlations—✦ Robert Noble, Miami University of Ohio; Robert Schaefer, Miami University of Ohio

10:50 a.m. Interchangeable Measurements in Gaussian and Multinomial Graphical Models—✦ Henk Kelderman, Free University Amsterdam

11:05 a.m. Generalized P-value and Generalized Confidence Region for the Common Mean Vector of Several Multivariate Normal Populations—✦ Shu-Hui Lin, National Taichung Institute of Technology; Jack C. Lee, National Chiao-Tung University

11:20 a.m. Clustering with Mixed-type Attributes—✦ Jong-Min Kim, University of Minnesota; Seoung-San Chae, Daejeon University; William D. Warde, Oklahoma State University

11:35 a.m. Impact Evaluation of the Recent Reform on Degree Programs of the Italian Universities—✦ Luigi Biggeri, National University Evaluation Committee; Matilde Bini, Università degli Studi di Firenz

11:50 a.m. Floor Discussion

521 MCC-211 D

✺ ✯ Bayesian Methods in Political Science, Medical, and Health Care Research—Contributed

Section on Bayesian Statistical Science, WNAR, Social Statistics Section, Biometrics Section

Chair(s): Chong Z. He, University of Missouri, Columbia

10:35 a.m. Time Trends in Opinions about the Death Penalty in the United States—✦ Shouhao Zhou, Columbia University; Andrew Gelman, Columbia University

10:50 a.m. Spatial Interaction of Crime Incidents in Japan—✦ Kazuhiko Kakamu, Institut Für Höhere Studien; Hajime Wago, Nagoya University; Wolfgang Polasek, Institute for Advanced Studies

11:05 a.m. A Hierarchical Bayesian Multivariate Stochastic Volatility Model on fMRI Motion Correction Data—✦ Jun Ying, Indiana University School of Medicine; Siu Hui, Indiana University School of Medicine; Tie-Qiang Li, National Institute of Neurological Disorders and Stroke; Yang Wang, Indiana University School of Medicine

11:20 a.m. Naïve Bayes Classifier for Noisy Medical Information Dataset—✦ Xiaowei Yang, BayesSoft, Inc.; Yirong Yang, BayesSoft, Inc.

11:35 a.m. The Use of Hierarchical Empirical Bayes for the Analysis of a Smoking Cessation Dissemination Project: the SCRIPT Study—✦ Billie Anderson, The University of Alabama; J. Michael Hardin, University of Alabama at Birmingham; Myra A. Crawford, University of Alabama at Birmingham; Lesa L. Woodby, University of Alabama at Birmingham

11:50 a.m. Spatial Modeling of Relationships between Measures of Urban Form, Socioeconomic Deprivation, and Chronic Disease Mortality: a Comparative Analysis—✦ Gerald Shoultz, National Center for Health Statistics

12:05 p.m. Determinants of County-level Stroke Mortality in the Southeastern United States, 1999–2002—✦ Eric Tassone, Emory University; Lance A. Waller, Emory University

522 MCC-200 F

Issues in Preclinical and Dose-ranging Trials—Contributed

Biopharmaceutical Section, WNAR

Chair(s): Wei Shen, Eli Lilly and Company

10:35 a.m. Optimal Designs in Stability Studies—✦ Xu Yan, U.S. Food and Drug Administration; Samad Hedayat, University of Illinois, Chicago

10:50 a.m. Statistical Design and Analysis of Pooling Experiments—✦ Katja Remlinger, GlaxoSmithKline; Jacqueline M. Hughes-Oliver, North Carolina State University

11:05 a.m. A Model for the Interaction of Two Chemicals—✦ Pali Sen, University of North Florida; Denis Bell, University of North Florida

11:20 a.m. A New Method-to Identify the Minimum Effective Dose—✦ Jianan Peng, Acadia University; Chun-In C. Lee, Memorial University of Newfoundland; Lin Liu, University of California, San Diego

11:35 a.m. Choices of Tests in Dose-ranging Clinical Trials When the Data Is Skewed—✦ Lee-Lian Kim, Centocor, Inc.

11:50 a.m. Statistical Learning Techniques on a High-dimensional, Richly Structured Feature Space To Predict Orthodontic Treatment Outcomes and Optimize Treatment Parameters—✦ Christopher Overton, Align Technology; Michael Zakharevich, Align Technology; Xiaorong Chen, Align Technology

12:05 p.m. Floor Discussion

523 MCC-212 AB

Using Technology and the Web When Teaching Statistics—Contributed

Section on Statistical Education, Social Statistics Section

Chair(s): Diane Fisher, Louisiana State University

10:35 a.m. Best of Both Worlds? Statistical Methods and Concepts in a Programming Class—✦ A. John Bailer, Miami University

10:50 a.m. Experiences with International Web-based, Introductory, Long-distance Statistics Courses—✦ Juergen Symanzik, Utah State University; Natascha Vukasinovic, Monsanto; Alex C. Wun

11:05 a.m. Improving the Quality of and Access to Undergraduate Statistics Education by Using Innovative Web-based and Multimedia Materials—✦ Eric Hintze, Texas A&M University; Michael Speed, Texas A&M University; Kathleen Speed, Texas A&M University

11:20 a.m. The Best of Both Worlds: a Hybrid Statistics Course—✦ Barbara Ward, Belmont University

11:35 a.m. Using Online Learning at TAMU To Teach Statistics—✦ Michael Speed, Texas A&M University

11:50 a.m. The STAT-CAVE and a Multitask Approach To Improve the Teaching of Intro Stats—✦ Edith Seier, East Tennessee State University; Robert Price, Jr., East Tennessee State University; Jeff Knisley, East Tennessee State University

12:05 p.m. Statistics and Mathematics: Do Students Differentiate?—✦ Sterling Hilton, Brigham Young University

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524 MCC-L100 G

Recurrent Events and Data Assimilation—Contributed

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

Chair(s): Ivelisse Aviles, NIST

10:35 a.m. Analysis of Window-observation Recurrence Data—✦ Jianying Zuo, Iowa State University; Huaiqing Wu, Iowa State University; William Q. Meeker, Iowa State University

10:50 a.m. Nonparametric Comparison of Sets of Recurrent Events Data—✦ Wayne Nelson, Wayne Nelson Stat Consulting

11:05 a.m. Some Results on a General Class of Parametric Models—✦ Russell Stocker, Mississippi State University; Edsel Pena, University of South Carolina

11:20 a.m. Some Analyses of Geochemical Surveys—✦ James Yen, National Institute of Standards and Technology

11:35 a.m. Floor Discussion

525 MCC-L100 E

✺ Environmental Risk Analysis and Methodological Approaches—Contributed

Section on Risk Analysis

Chair(s): Mridul Chowdhury, U.S Food and Drug Administration

10:35 a.m. Comparison of Bayesian and Frequentist Approaches in Modeling Risk of Preterm Birth near the Sydney Tar Ponds, Nova Scotia, Canada—✦ Afisi Ismaila, McMaster University; Angelo Canty, McMaster University; Lehana Thabane, McMaster University

10:50 a.m. Statistical TK/TD Dose Response Modeling of Toxicity—✦ Munni Begum, The University of North Carolina at Chapel Hill

11:05 a.m. Use of 'Extremes' in Identifying GIS-based Bivariate Associations—✦ Turkan K. Gardenier, Pragmatica Corporation

11:20 a.m. Predictive Growth Curve Modeling of Listeria Monocytogenes on Frankfurters Treated with Organic Acid Salts at 6%—✦ Chunwang Gao, Iowa State University; Zheng Lu, Iowa State University

11:35 a.m. Floor Discussion

526 MCC-103 E

✺ Statistical Learning—Contributed

Section on Statistical Computing

Chair(s): Rong Huang, University of California, Los Angeles

10:35 a.m. Randomized Sampling and Dynamic Rescaling for Mining Overlapping Clusters—✦ Mei Kobayashi, IBM; Masaki Aono, Toyohashi University of Technology

10:50 a.m. Statistics and Machine Learning—✦ Alan J. Izenman, Temple University

11:05 a.m. An Experimental Comparison of the Effects of Ensemble Learning Methods, Mapping Scale, and Information Hierarchy on Prediction Accuracy of Rare Events—✦ Zhaofei Fan, University of Missouri, Columbia; Stephen S. Lee, University of Idaho; Stephen Shifley, USDA Forest Service; Frank R. Thompson, USDA Forest Service; David R. Larsen, University of Missouri, Columbia

11:20 a.m. Choosing Variable Weights To Maximize Prediction Strength—✦ Samuel Buttrey, Naval Postgraduate School

11:35 a.m. Integrated Gaussian Process and Monotone Smoothing without Splines—✦ Farideh Dehkordi-Vakil, Western Illinois University

11:50 a.m. Solving the Weighted Least Absolute Deviations Regression Problem via Mathematical Programming—✦ Avi Giloni, Yeshiva University; Bhaskar Sengupta, ExxonMobil Research and Engineering; Jeffrey S. Simonoff, New York University

12:05 p.m. Floor Discussion

527 MCC-205 D

✺ Small-area Estimation—Contributed

Section on Survey Research Methods, Social Statistics Section

Chair(s): Sunghee Lee, University of California, Los Angeles

10:35 a.m. Transformation Usage and Model Strategies in Small-area Estimation—✦ Dawei Xie, University of Pennsylvania; Trivellore Raghunathan, University of Michigan

10:50 a.m. Model-assisted Estimation for the American Community Survey—✦ Robert E. Fay, U.S. Census Bureau

11:05 a.m. American Community Survey: Improved Reliability for Small-area Estimates—✦ Michael Starsinic, U.S. Census Bureau

11:20 a.m. An Evaluation of Synthetic Small-area Census Coverage Error Using a Random-effects Model—✦ Donald Malec, U.S. Census Bureau/National Institute of Standards and Technology; Jerry Maples, U.S. Census Bureau

11:35 a.m. Investigation of Extreme Estimates of Census Coverage Error for Small Areas—✦ Mary H. Mulry, U.S. Census Bureau; Bruce D. Spencer, Northwestern University; Eric L. Schindler, U.S. Census Bureau; Tom Mule, U.S. Census Bureau; Nganha Nguyen, U.S. Census Bureau

11:50 a.m. Variance Estimation for Small Domains—✦ Julie B. Gershunskaya, Bureau of Labor Statistics; Partha Lahiri, University of Maryland

12:05 p.m. Floor Discussion

528 MCC-208 B

✺ Missing Data and Under-reported Data—Contributed

Section on Survey Research Methods, Social Statistics Section

Chair(s): Karol Krotki, RTI International

10:35 a.m. Analysis of Nonresponse in Student Surveys—✦ Ronaldo Iachan, ORC Macro International, Inc.; William H. Robb, ORC Macro International, Inc.; James G. Ross, ORC Macro International, Inc.; Katherine H. Flint, ORC Macro International, Inc.; Alan Bloch, Centers for Disease Control and Prevention

10:50 a.m. Comparison of Methods for Handling Missing Data in a Collegiate Survey of Tobacco Use—✦ Liza M. Nirelli, Iowa State University; Michael D. Larsen, Iowa State University; Ivana T. Croghan, Mayo Clinic; Darrell R. Schroeder, Mayo Clinic; Kenneth P. Offord, Mayo Clinic; Richard D. Hurt, Mayo Clinic

11:05 a.m. Methodology To Evaluate Longitudinal Estimates after Imputation in a Graduate Student Survey—✦ Adriana Perez, The University of Texas Health Science Center at Houston

11:20 a.m. Measuring and Reducing Inconsistency among Questionnaire Items through Imputation: an Application to the NSOPF—✦ Kimberly Ault, RTI International

11:35 a.m. A Test for Judging the Number-one Product in a Marketing Survey: a Multinomial Approach with Incomplete Rank Data—✦ Chien-Hua Wu, Chung-Yuan Christian University; Shu-Mei Wan, Lunghwa University of Science and Technology; Che-Wei Hsin, Chung-Yuan Christian University

11:50 a.m. Estimating the Level of Underreporting of Expenditures among Expenditure Reporters: a Micro-level Latent Class Analysis—✦ Clyde Tucker, Bureau of Labor Statistics; Brian Meekins, Bureau of Labor Statistics; Paul Biemer, RTI International

12:05 p.m. Floor Discussion

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