SUNDAY AUGUST 8

Committee/Business Meetings & Other Activities

7:00 am–4:00 pm   FRY-Meeting Services Desk
JSM CE Pre-registered Pick Up Desk

7:00 am–6:00 pm   FRY- Prince Edward Island
Speaker Work Room

7:00 am–6:00 pm   TCC-702
Speaker Work Room

7:00 am–8:30 pm   TCC-600 Level
ASA Membership Booth (Reg Area)

7:00 am–8:30 pm   TCC-600 Level
JSM Main Registration

7:00 am–8:30 pm   TCC-600 Level
Special Assistance Desk

7:00 am–8:30 pm   TCC-Entrance of South Building
Guest Services Desk

7:00 am–8:30 pm   TCC-600 Level
Press Desk

7:00 am–11:00 pm   TCC-600 Level
Cyber Café and Message Center

7:30 am–8:15 am   ICH-Oakville
Association of GCRC Statisticians Breakfast (closed)
Organizer(s): Curtis A Parvin, Washington University School of Medicine

7:30 am–9:00 am   ICH-Grenadier
Committee on Women in Statistics (closed)
Chair(s): Amita K. Manatunga, Emory University

8:00 am–11:00 am   TCC-Exhibit Hall E
Exhibitor Move-in

8:00 am–12:00 pm   ICH-Caledon
Association of GCRC Statisticians Meeting (closed)
Organizer(s): Curtis A Parvin, Washington University School of Medicine

8:00 am–12:00 pm   FRY-New Brunswick
Advisory Committee on Teacher Enhancement (closed)
Chair(s): Thomas H. Short, Indiana University of Pennsylvania

8:00 am–12:30 pm   ICH-Halton
Committee on Publications (closed)
Chair(s): William Q. Meeker, Iowa State University

8:00 am–1:00 pm   FRY-York
Pathways to the Future Workshop
Organizer(s): Lynne Billard, University of Georgia

8:00 am–6:00 pm   TCC-Exhibit Hall E
Exhibitor Lounge

9:00 am–10:30 am   ICH-Grenadier
Caucus for Women in Statistics Committee Meeting
Organizer(s): Mariza de Andrade, Mayo Clinic

9:00 am–11:00 am   TCC-Exhibit Hall F
Career Placement Service (Job Posting and Resume Submission Only)

9:00 am–12:00 pm   FRY-Nova Scotia
Council of Sections Governing Board Meeting (closed)
Chair(s): Thomas J. Santner, The Ohio State University

9:00 am–5:00 pm   TCC-600 Level
ASA Marketplace

10:00 am–2:00 pm   ICH-Haliburton
Committee on Meetings (closed)
Chair(s): Kim McGuigan, Medco Health Solutions

11:00 am–2:00 pm   ICH-Humber
NISS/SAMSI Affiliates Meeting (closed)
Organizer(s): Martha Williamson, National Institute of Statistical Sciences

11:30 am–1:00 pm   ICH-Wellington
Committee on Committees Meeting (closed)
Chair(s): Linda Gage, California Department of Finance

12:00 pm–1:00 pm   ICH-Oakville
Association of GCRC Statisticians Lunch (closed)
Organizer(s): Curtis A Parvin, Washington University School of Medicine

Sunday

⊞ Themed Session   ⧋ Applied Session   ◆ Presenter   **ICH**-InterContinental Hotel   **FRY**-Fairmont Royal York Hotel   **TCC**-Metro Toronto Convention Centre

GENERAL PROGRAM SCHEDULE

12:00 pm–1:45 pm   TCC-803 A
Friends of the Indian Statistical Institute (D. Basu Lecture)
Organizer(s): Nitis Mukhopadhyay, University of Connecticut

12:00 pm–2:00 pm   ICH-Kingsway
***Journal of Statistics Education* Editorial Board (closed)**
Organizer(s): W. Robert Stephenson, Iowa State University

12:00 pm–5:00 pm   TCC-600 Level
ASA Council of Sections/Council of Chapters Booth

12:00 pm–5:00 pm   TCC-600 Level
Careers in Statistics Booth

12:00 pm–5:00 pm   TCC-600 Level
ASA Education Booth

12:30 pm–2:00 pm   FRY-Saskatchewan
GAISE Committee (closed)
Chair(s): Christine A. Franklin, University of Georgia; Joan Garfield, University of Minnesota

1:00 pm–6:00 pm   TCC-Exhibit Hall E
ASA Membership Booth #225 (Exhibit Hall)

1:00 pm–6:00 pm   TCC-Exhibit Hall F
Career Placement Service (Full Placement Service Open)

1:00 pm–6:00 pm   TCC-Exhibit Hall E
EXPO 2004

1:30 pm–4:00 pm   FRY-Territories
Council of Sections Annual Business Meeting (closed)
Chair(s): Thomas J. Santner, The Ohio State University

1:30 pm–6:00 pm   FRY-New Brunswick
***Current Index to Statistics* Management Committee (closed)**
Chair(s): Alan Zaslavsky, Harvard Medical School

2:00 pm–5:30 pm   ICH-Ontario
Career Development Seminar: Thinking Like the CEO of Your Career - Goal Setting, Advancing, and All Necessary Skills In-Between
Chair(s): J. Lynn Palmer, University of Texas MD Anderson Cancer Center

4:00 pm–5:30 pm   ICH-Caledon
Committee on Committees Chairs Meeting (closed)
Chair(s): Linda Gage, California Department of Finance

4:00 pm–5:30 pm   FRY-Tudor 8
Cancer Center Biostatistics Directors Meeting
Organizer(s): Terry Hyslop, Thomas Jefferson University

4:30 pm–7:30 pm   ICH-Haliburton
ENAR Executive Committee (by invitation only)
Organizer(s): Kathy Hoskins, ENAR

5:00 pm–6:15 pm   FRY-Library
Council of Sections Chairs, Treasurers, and New Section Representatives (closed)
Chair(s): Melinda H. McCann, Oklahoma State University; E. Jacquelin Dietz, North Carolina State University

5:30 pm–6:30 pm   FRY-British Columbia
International Indian Statistical Association Executive Committee Meeting (closed)
Organizer(s): Dipak K. Dey, University of Connecticut

5:30 pm–7:00 pm   FRY-Nova Scotia
Section on Bayesian Statistical Science Executive Committee Meeting (closed)
Chair(s): Susan Paddock, RAND Corporation

5:30 pm–7:30 pm   ICH-Niagara/Ontario
JSM First Time Attendee Program and Reception
Organizer(s): Mariza de Andrade, Mayo Clinic

6:00 pm–7:30 pm   TCC-801 A
ASA Open Meeting
Chair(s): Bradley Efron, Stanford University

6:00 pm–7:30 pm   ICH-Kingsway
Section on Nonparametric Statistics Executive Committee (closed)
Chair(s): Joseph L. Gastwirth, George Washington University

6:00 pm–8:00 pm   FRY-Saskatchewan
Section on Survey Research Methods Executive Committee Meeting (closed)
Chair(s): Sharon Lohr, Arizona State University

⊞ Themed Session   ⚠ Applied Session   ◆ Presenter   **ICH**-InterContinental Hotel   **FRY**-Fairmont Royal York Hotel   **TCC**-Metro Toronto Convention Centre

6:00 pm–8:00 pm   **ICH-Wellington**
Section on Statistics and the Environment Executive Committee Meeting (closed)
Chair(s): Walter W. Piegorsch, University of South Carolina

6:00 pm–8:00 pm   **FRY-York**
CDC/ATSDR Statistical Advisory Group Open Meeting
Organizer(s): W. Karl Sieber, National Institute for Occupational Safety and Health

6:30 pm–8:00 pm   **FRY-New Brunswick**
Committee on Scientific Freedom and Human Rights
Chair(s): Patrick Ball, The Benetech Initiative

6:30 pm–8:30 pm   **ICH-Halton**
Section on Statistical Consulting Executive Committee Dinner (closed)
Chair(s): Jane Pendergast, University of Iowa

6:30 pm–9:30 pm   **ICH-Oakville**
Biometrics Section Executive Committee (closed)
Chair(s): Dennis Dixon, National Institutes of Health

7:00 pm–8:00 pm   **FRY-Territories**
ACCE/ACTE Presenter Social (by invitation only)

7:00 pm–9:00 pm   **TCC-706**
Isolated Statisticians Meeting
Organizer(s): Ann Cannon, Cornell College

7:00 pm–10:00 pm   **ICH-Humber**
International Chinese Statistical Association Board Meeting (closed) *Organizer(s): Ivan S.F. Chan, Merck & Co., Inc.*

8:00 pm–10:30 pm   **TCC-Exhibit Hall G**
JSM Opening Mixer (included in registration fee)

Sunday

Continuing Education (Fee Events)

CE_01C   **FRY-Quebec**
8:15 am–4:15 pm
Sample Survey Methods: Recent Developments and Applications (2-day Course)
ASA
Instructor(s): Jon N.K. Rao, Carleton University; Sharon Lohr, Arizona State University

CE_07C   **FRY-Tudor 8**
8:00 am–4:00 pm
Regression Modeling Strategies (1-day Course)
ASA
Instructor(s): Frank E. Harrell, Jr., Vanderbilt University School of Medicine

CE_08C   **FRY-Confederation 5 & 6**
8:00 am–4:00 pm
Designing Clinical Trials (1-day Course)
ASA, Section on Bayesian Statistical Science, Biopharmaceutical Section
Instructor(s): Peter F. Thall, University of Texas M.D. Anderson Cancer Center

CE_09C   **FRY-Tudor 7**
8:00 am–12:00 pm
Bootstrap Methods and Permutation Tests for Doing and Teaching Statistics (1/2-day Course)
Section on Statistical Computing, ASA, Section on Statistical Education
Instructor(s): Tim C. Hesterberg, Insightful Corporation

CE_10C   **FRY-Alberta**
8:15 am–4:15 pm
Design and Analysis of Gene Expression Studies Using Microarrays (1Day Course)
ASA
Instructor(s): Robert J. Tempelman, Michigan State University; Guilherme J.M. Rosa, Michigan State University

CE_11C   **FRY-Manitoba**
8:15 am–4:15 pm
Longitudinal and Incomplete Data (1-day Course)
ASA, Section on Statistics in Epidemiology
Instructor(s): Geert Verbeke, Katholieke Universiteit Leuven; Geert Molenberghs, Limburgs Universitair Centrum

CE_12C   **FRY-British Columbia**
8:15 am–4:15 pm
Methods for Designing and Analyzing Mixture Experiments (1-day Course)

ASA, Section on Physical and Engineering Sciences
Instructor(s): Greg F. Piepel, Battelle/Pacific Northwest National Laboratory; John A. Cornell, University of Florida

CE_13C   **FRY-Tudor 7**
1:00 pm–5:00 pm
Disease Mapping and Risk Assessment for Public Health (1/2-day Course)
Section on Statistics and the Environment, ASA
Instructor(s): Andrew B. Lawson, University of South Carolina

Invited Sessions 2:00 pm–3:50 pm

1   **TCC-715 A**
⚠ **Bridging the Gap: Issues and methods for transitioning between the 1977 and 1997 OMB Standards for collecting data on race and ethnicity — Invited**
Social Statistics Section, Section on Government Statistics, Section on Survey Research Methods
Organizer(s): Jennifer Madans, National Center for Health Statistics
Chair(s): Signe I. Wetrogan, U.S. Census Bureau

2:05 pm	Overview of Race-bridging Models for 2000 and Development of Revised Models for Post-censal Years — ◆Jennifer Parker, National Center for Health Statistics
2:30 pm	Replicating the Race-bridging Models Using the Census Quality Survey — ◆Deborah D. Ingram, National Center for Health Statistics
2:55 pm	Assessing Variability Due to Race Bridging — ◆Nathaniel Schenker, National Center for Health Statistics
3:20 pm	Disc: Edward Spar, COPAFS
3:45 pm	Floor Discussion

2   **TCC-717 A**
Analysis of Intensively Collected Data — Invited
WNAR, ENAR, Section on Physical and Engineering Sciences
Organizer(s): Runze Li, Pennsylvania State University
Chair(s): Runze Li, Pennsylvania State University

2:05 pm	Normalization and Significance Analysis of cDNA Microarrays — ◆Jianqing Fan, Princeton University
2:30 pm	Functional Regression for Longitudinal Data — ◆Hans-Georg Mueller, University of California, Davis
2:55 pm	Accounting for Response Correlation in Varying-coefficient Models — ◆Naisyin Wang, Texas A&M University; Jeng-Min Chiou, National Health Research Institute
3:20 pm	Mixed-effects State-space Models for Longitudinal Data Analysis — ◆Hulin Wu, University of Rochester Medical Center; Dacheng Liu, University of Rochester Medical Center; Xu-Feng Niu, Florida State University
3:45 pm	Floor Discussion

⊞ Themed Session   ⚠ Applied Session   ◆ Presenter   **ICH**-InterContinental Hotel   **FRY**-Fairmont Royal York Hotel   **TCC**-Metro Toronto Convention Centre

3   ICH-Ballroom B

⌗ **Training of Government Statisticians — Invited**
International Association for Statistical Education, Section on Statistical Education, International Statistical Institute, Section on Government Statistics, Section on Survey Research Methods, Social Statistics Section *Organizer(s):*
Carol J. Blumberg, Winona State University
Chair(s): Carol J. Blumberg, Winona State University

2:05 pm   Teaching a Course on Government Statistics in a University Statistics Department — ◆ Patrick Murphy, University College Dublin
2:30 pm   The Joint Program in Survey Methodology and Its Impact on the Federal Statistical Agency Workforce — ◆ Cynthia Z.F. Clark, U.S. Census Bureau; Roger Tourangeau, University of Maryland; Gia F. Donnalley, U.S. Census Bureau
2:55 pm   The Challenges of Providing International Statistical Training to Government Statisticians — ◆ Elizabeth A. Taylor, Bureau of Labor Statistics
3:20 pm   Disc: Ivan P. Fellegi, Statistics Canada
3:30 pm   Disc: Luigi Biggeri, National University Evaluation Committee
3:40 pm   Floor Discussion

4   TCC-713 B

Bootstrap Methods and Time Series Data — Invited
Business and Economics Statistics Section
Organizer(s): Terry E. Dielman, Texas Christian University
Chair(s): Terry E. Dielman, Texas Christian University

2:05 pm   Applications of the Fast Double Bootstrap — ◆ James G. MacKinnon, Queen's University
2:30 pm   Semiparametric Markov Bootstrap — ◆ Bruce E. Hansen, University of Wisconsin
2:55 pm   Infinite Order Kernels and Nonparametric Regression — ◆ Tim McMurry, University of California, San Diego; Dimitris Politis, University of California, San Diego
3:20 pm   Disc: Silvia Goncalves, Université de Montréal
3:30 pm   Disc: Soumendra Lahiri, Iowa State University
3:40 pm   Floor Discussion

5   TCC-801 A

⛰ **Bayesian Solutions to Challenging Problems in Ecology — Invited**
Section on Bayesian Statistical Science, Section on Statistical Computing, Section on Statistics and the Environment
Organizer(s): Jennifer A. Hoeting, Colorado State University
Chair(s): Jennifer A. Hoeting, Colorado State University

2:05 pm   Hierarchical Bayesian Models for Spatio-temporal Processes in Ecology — ◆ Christopher K. Wikle, University of Missouri, Columbia
2:35 pm   Model-based Combination of Spatial Information for Stream Networks — ◆ Mark S. Handcock, University of Washington
3:05 pm   State-space Models for Biological Monitoring Data — ◆ Devin S. Johnson, University of Alaska, Fairbanks; Jennifer A. Hoeting, Colorado State University
3:35 pm   Floor Discussion

6   TCC-710

gR Graphical Model in R — Invited
Statistical Computing, Section on Section on Statistical Graphics, Section on Bayesian Statistical Science
Organizer(s): David Madigan, Rutgers University
Chair(s): Steffen L. Lauritzen, University of Oxford

2:05 pm   GRbase: A Common Platform for Graphical Models in R — ◆ Claus Dethlefsen, Aalborg University
2:30 pm   R Functions for Computing Graphs Induced from a DAG after Marginalization and Conditioning — ◆ Giovanni Marchetti, University di Firenze
2:55 pm   Bayesian Graphical Models for Locating Mobile Wireless Users — ◆ David Madigan, Rutgers University
3:20 pm   Disc: Andrew Gelman, Columbia University
3:45 pm   Floor Discussion

7   TCC-803 B

⛰ **Statistics in Finance & Marketing — Invited**
ASA, Section on Statistics and Marketing, Business and Economics Statistics Section, Southern Ontario Chapter (Toronto)
Organizer(s): Alison J. Burnham, Exchange Solutions
Chair(s): Ivan Hon, Scotiabank

2:05 pm   Predictive Modeling for Consumer Purchase Decisions — ◆ Zhen Mei, Manifold Data Mining, Inc.
2:50 pm   Integrating Structural Modeling, Financial Linkages, and Initiative Development: Techniques to Bring Research Back to Earth — ◆ Patrick J. Barton, Synovate Symmetrics; Bruce A. Corner, Synovate Symmetrics
3:35 pm   Floor Discussion

8   TCC-717 B

⛰ **Topics in Statistical Genetics: From Linkage to Gene Discovery — Invited**
Biometrics Section, Caucus for Women in Statistics, WNAR
Organizer(s): Françoise Seillier-Moiseiwitsch, University of Maryland, Baltimore County; Mariza de Andrade, Mayo Clinic
Chair(s): Mariza de Andrade, Mayo Clinic

2:05 pm   A Nonparametric Confidence Set Inference Procedure for Gene-mapping — ◆ Shili Lin, The Ohio State University
2:35 pm   Genomic Convergence: Combining Genetic and Genomic Information to Identify Genes for Complex Traits — ◆ Elizabeth R. Hauser, Duke University Medical Center
3:05 pm   Some Recent Developments for Massive Multiple Comparisons and Clustering of Microarray Gene Expression Data — ◆ Kim-Anh Do, University of Texas M.D. Anderson Cancer Center
3:35 pm   Floor Discussion

⌗ Themed Session   ⛰ Applied Session   ◆ Presenter   **ICH**-InterContinental Hotel   **FRY**-Fairmont Royal York Hotel   **TCC**-Metro Toronto Convention Centre

Topic-Contributed Sessions 2:00 pm–3:50 pm

9   TCC-715 B
⛰ ⌗ Record Linkage Applications — Topic-contributed
Section on Survey Research Methods, Social Statistics Section, Section on Government Statistics

Organizer(s): Michael D. Larsen, Iowa State University
Chair(s): Steven B. Cohen, Agency for Healthcare Research and Quality

2:05 pm   Use of Probabilistic Record Linkage for the Canadian Cancer Registry — ◆ Brad W. Thomas, Statistics Canada; Jocelyne Marion, Statistics Canada

2:25 pm   Research Use of Restricted Data: The HRS Experience — ◆ Michael A. Nolte, University of Michigan; Janet J. Keller, University of Michigan

2:45 pm   National Record Linkage of UK Hospital records and Death Registrations — ◆ Leicester E. Gill, University of Oxford

3:05 pm   Child Immigrants as Citizens — ◆ Karen A. Woodrow-Lafield, University of Notre Dame

3:25 pm   Approximate String Comparator Search Strategies for Very Large Administrative Lists — ◆ William E. Winkler, U.S. Census Bureau

3:45 pm   Floor Discussion

10   TCC-705
⛰ ⌗ Recent Developments in Statistics of Income Research — Topic-contributed
Section on Government Statistics

Organizer(s): Kevin Cecco, Internal Revenue Service
Chair(s): Thomas B. Petska, Internal Revenue Service

2:05 pm   The 1979-2002 SOI Continuous Work History Sample Individual Income Tax Panel — ◆ Michael E. Weber, Internal Revenue Service

2:25 pm   Further Analysis of the Distribution of Income and Taxes — ◆ Michael Strudler, Internal Revenue Service; Thomas B. Petska, Internal Revenue Service; Ryan Petska, Ernst & Young LLP

2:45 pm   Use of Individual Retirement Arrangements to Save for Retirement, 1996-2001–Results from a Matched File of Tax Returns and Information Documents — ◆ Peter J. Sailer, Internal Revenue Service; Sarah A. Holden, Investment Company Institute

3:05 pm   Customer Satisfaction Initiatives within the Statistics of Income of the Internal Revenue Service — ◆ Kevin Cecco, Internal Revenue Service

3:25 pm   Back to Basics: Reconciling Definitions of Key Variables — ◆ William R. Pratt, Internal Revenue Service

3:45 pm   Floor Discussion

11   TCC-706
⛰ ⌗ Imaging and Related Topics — Topic-contributed
Section on Statistical Computing

Organizer(s): Thomas C.M. Lee, Colorado State University
Chair(s): Thomas C.M. Lee, Colorado State University

2:05 pm   Information Scaling Laws in Vision — ◆ Ying Nian Wu, University of California, Los Angeles; Cheng-en Guo, University of California, Los Angeles; Song-Chun Zhu, University of California, Los Angeles

2:25 pm   Pattern Reproduction Using Likelihood Inference for Cellular Automata — ◆ Radu V. Craiu, University of Toronto; Thomas C.M. Lee, Colorado State University

2:45 pm   Spatio-temporal Wavelet Analysis for Functional MRI — ◆ Victor Solo, University of Michigan; Christopher Long, Massachusetts General Hospital; Manoach Dara, MGH/NMR Center; Emery N. Brown, Harvard Medical School

3:05 pm   Using Ultra-high-resolution Spectra to Reconstruct the Temperature and Composition of an Astronomical Source — ◆ David A. van Dyk, University of California, Irvine; Hosung Kang, Harvard University; Vinay Kashyap, Harvard-Smithsonian Center for Astrophysics; Alanna Connors, Eurika Scientific

3:25 pm   Feature Representation and Pattern-filtering for Acoustic Detection — ◆ Zhiyi Chi, University of Chicago

3:45 pm   Floor Discussion

12   TCC-718 A
⛰ ⌗ Phase 2/3 Combination Designs to Accelerate Drug Development — Topic-contributed
Biopharmaceutical Section

Organizer(s): Liu Qing, J&J Pharmaceutical Research and Development
Chair(s): Pilar Lim, J&J Pharmaceutical Research Development

2:05 pm   Issues with Phase II/III Combination Designs — ◆ H.M. James Hung, U.S. Food and Drug Administration

2:25 pm   Phase 2/3 Combination Designs Comparing Several with a Control — ◆ Qing Liu, J&J Pharmaceutical Research and Development

2:45 pm   Optimized Two-stage Adaptive Design — ◆ Keaven M. Anderson, Merck & Co., Inc.; Qing Liu, J&J Pharmaceutical Research and Development

3:05 pm   Nonstop Drug Development: Strategies for a Quick Transition from Phase II to Phase III — ◆ Ronald W. Helms, Rho, Inc.; Karen Kesler, Rho, Inc.

3:25 pm   Disc: Allan R. Sampson, University of Pittsburgh

3:45 pm   Floor Discussion

13   TCC-716 A
⛰ Web-based Statistical Tools — Topic-contributed
Section on Quality and Productivity

Organizer(s): Fred Hulting, General Mills, Inc.
Chair(s): Jennifer H. Van Mullekom, Dupont Engineering Tech

2:05 pm   Clearing Out the Cobwebs for "Accidental" Statisticians: A Web-based Tool — ◆ Cheryl L. Jennings, Motorola Semiconductor Products Sector; Kathryn Kennedy, Arizona State University

2:25 pm   Delivering Statistical Reports to Executives via Web-based Dashboards — ◆ Samaradasa Weerahandi, Time Warner; Martin Koschat, Time Warner

2:45 pm   Implementing Web-based Statistical Tools — ◆ Webster West, Integrated Analytics LLC

⌗ Themed Session   ⛰ Applied Session   ◆ Presenter   **ICH**-InterContinental Hotel   **FRY**-Fairmont Royal York Hotel   **TCC**-Metro Toronto Convention Centre

3:05 pm Competitive Advantage with eSTAT — Jose G. Ramirez, W.L. Gore & Associates, Inc.; ◆ Brenda Ramirez, W.L. Gore & Associates, Inc.; Stuart Nagy, W.L. Gore & Associates, Inc.

3:25 pm Disc: Fred Hulting, General Mills, Inc.

3:45 pm Floor Discussion

3:25 pm Bayesian Recombination Identification: New Models and Better Ways of Incorporating Prior Information — ◆ Vladimir N. Minin, University of California, Los Angeles; Karin S. Dorman, Iowa State University; Marc A. Suchard, University of California, Los Angeles

3:45 pm Floor Discussion

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14 · TCC-714 A
⏏ Spatial and Temporal Models and Applications — Topic-contributed
Section on Bayesian Statistical Science

Organizer(s): Dongchu Sun, University of Missouri, Columbia

Chair(s): Steven L. Sheriff, Missouri Department of Conservation

2:05 pm Bayesian Spatial Modeling of Air Pollution in 12 Southern California Communities Incorporating Space-time Interaction — ◆ Nuoo-Ting Molitor, University of Southern California; John Molitor, University of Southern California

2:25 pm Bayesian Semiparametric Models for Colorectal Cancer Incidence — ◆ Song Zhang, University of Missouri, Columbia; Dongchu Sun, University of Missouri, Columbia; Chong He, University of Missouri, Columbia

2:45 pm Stochastic Search Model Selection for Restricted VAR Models — ◆ Shawn Ni, University of Missouri; Dongchu Sun, University of Missouri, Columbia; Edward I. George, University of Pennsylvania

3:05 pm Normal in Econometrics — ◆ Daniel Waggoner, Federal Reserve Bank of Atlanta; James Hamilton, University of California, San Diego; Tao Zha, Federal Reserve Bank of Atlanta

3:25 pm Estimating Nonlinear Dynamic Equilibrium Economies: A Likelihood Approach — ◆ Jesus Fernandez-Villaverde, University of Pennsylvania

3:45 pm Floor Discussion

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15 · TCC-714 B
⏏ Biostatistical Methods Using Bayesian Inference — Topic-contributed
Section on Bayesian Statistical Science

Organizer(s): Catherine Crespi, University of California, Los Angeles

Chair(s): Steven MacEachern, The Ohio State University

2:05 pm Model Selection for a K-level Categorical Regression Variable: Are All K Levels Necessary? — ◆ Susan A. Alber, University of California, Los Angeles; Robert E. Weiss, University of California, Los Angeles

2:25 pm Modeling Semicontinuous Longitudinal Data — ◆ Warren S. Comulada, University of California, Los Angeles; Robert E. Weiss, University of California, Los Angeles

2:45 pm Importance Reweighting within Gibbs for Hierarchical Regression Modeling — ◆ Li-Jung Liang, University of California, Los Angeles; Robert E. Weiss, University of California, Los Angeles

3:05 pm Modeling a Mixture of Ordinal and Continuous Repeated Measures — ◆ Xiao Zhang, University of California, Los Angeles; Walter J. Boscardin, University of California, Los Angeles; Thomas R. Belin, University of California, Los Angeles

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16 · TCC-701 B
⏏ ⊞ Statistical Methods for Detecting Spatial Clusters — Topic-contributed
Biometrics Section, Section on Statistics in Epidemiology

Organizer(s): Amita K. Manatunga, Emory University

Chair(s): Inder Sharma, Sharma Associates, Inc

2:05 pm A Simulation Approach for Detecting Clusters: An Application of Taiwan Cancer Mortality — ◆ Ching-Syang J. Yue, National Chengchi University; Foong Ling Chin, National Chengchi University

2:25 pm A Flexible Scan Statistic for Detecting Arbitrarily Shaped Clusters — ◆ Toshiro Tango, National Institute of Public Health, Japan; Kunihiko Takahashi, National Institute of Public Health, Japan

2:45 pm How to Evaluate Tests for Identifying Spatial Clusters — ◆ Kunihiko Takahashi, National Institute of Public Health, Japan; Toshiro Tango, National Institute of Public Health, Japan

3:05 pm A Test to Detect Space-time Clustering and a Comparison with Some Existing Methods — ◆ James C. Gear, Monsanto Company; Dana Quade, University of North Carolina

3:25 pm Spatial Cluster Detection Using Bayes Factors from Overparameterized Models — ◆ Ronald Gangnon, University of Wisconsin, Madison; Murray Clayton, University of Wisconsin, Madison

3:45 pm Floor Discussion

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17 · TCC-713 A
⏏ Analysis of Mortality and Morbidity — Topic-contributed
Section on Statistics in Epidemiology

Organizer(s): Amita K. Manatunga, Emory University

Chair(s): Owen J. Devine, Centers for Disease Control and Prevention

2:05 pm Socioeconomic Differentials in Mortality: Does the Myth Prevail in 21st Century? — ◆ Jay H. Kim, Centers for Disease Control and Prevention; Jay J. Kim, National Center for Health Statistics; Paul D. Williams, Centers for Disease Control and Prevention

2:25 pm Life Expectancy Decomposition by Disease — ◆ Charles C. Lin, U.S. Census Bureau; Norman J. Johnson, U.S. Census Bureau

2:45 pm Leukemia Mortality after Fractionated Moderate-dose-rate Ionizing Radiation in the Canadian Fluoroscopy Cohort and a Comparison with Leukemia Mortality among the A-bomb Survivors — ◆ Lydia Zablotska, Columbia University

3:05 pm Interaction between BMI and Diabetes in Modeling Mortality — ◆ Robert G. Fowler, Florida State University

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⊞ Themed Session   ⏏ Applied Session   ◆ Presenter   **ICH**-InterContinental Hotel   **FRY**-Fairmont Royal York Hotel   **TCC**-Metro Toronto Convention Centre

3:25 pm   Simple Models to Assess the Risk of Developing Diabetes — ◆ Ken Williams, University of Texas, San Antonio; Steven E. Stern, Australian National University; Michael P. Stern, University of Texas, San Antonio

3:45 pm   Floor Discussion

Topic-Contributed Panels 2:00 pm - 3:50 pm

18   TCC-803 A

⊞ **How to Write a Book for *ASA-SIAM* Series on Statistics and Applied Probability — Topic-contributed**

General Methodology

Organizer(s): Robert N. Rodriguez, SAS Institute Inc.

Chair(s): David Banks, Duke University

Panelists: ◆ Robert N. Rodriguez, SAS Institute Inc.
◆ Linda C. Thiel, Society for Industrial and Applied Mathematics
◆ Simon Dickey, Society for Industrial and Applied Mathematics
◆ Roxy L. Peck, California Polytechnic State University
◆ Thomas W. O'Gorman, Northern Illinois University

3:45 pm   Floor Discussion

Regular Contributed Sessions 2:00 pm–3:50 pm

19   TCC-707

General Topics — Contributed

Section on Nonparametric Statistics

Chair(s): Kaushik Ghosh, George Washington University

2:05 pm   Stochastic Linear Hypotheses for Nonparametric Analysis of Microarrays — ◆ Jeanne Kowalski, Johns Hopkins University

2:20 pm   Nonparametric Estimation of Mass within a Galaxy — ◆ Xiao Wang, University of Michigan; Michael Woodroofe, University of Michigan

2:35 pm   Spatial Statistics and Fast New Algorithms — ◆ Alexander G. Gray, Carnegie Mellon University

2:50 pm   FCAR Modeling of Vector Nonlinear Time Series — Jane L. Harvill, Mississippi State University; ◆ Nibiao Zhang, Mississippi State University

3:05 pm   Records of Discrete Distributions — ◆ Mohammad Ahsanullah, Rider University

3:20 pm   On Estimation of Pareto Distribution — ◆ Mei Ling Huang, Brock University; Jing Tang, Brock University

3:35 pm   The Reflection Principle Revisited — ◆ John L. Stedl, Chicago State University

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20   TCC-716 B

⚠ **Models and Methods for Censored Data and Extreme Value Prediction — Contributed**

Section on Statistics and the Environment

Chair(s): Victor De Oliveira, University of Arkansas

2:05 pm   Analyzing Censored Data Based on Autoregressive Models — ◆ Jung Wook Park, North Carolina State University; Sujit K. Ghosh, North Carolina State University; Marc G. Genton, North Carolina State University

2:20 pm   Estimation of Limits of Detection in the Analysis of Environmental Data — ◆ Changjian Jiang, Monsanto

2:35 pm   Assessing the Effect of Interventions in the Context of Mixture Distributions with Known Detection Limits — ◆ Haitao Chu, Johns Hopkins University; Thomas Kensler, Johns Hopkins University; Alvaro Muñoz, Johns Hopkins University

2:50 pm   Linear Prediction of Extreme Values in Environmental Statistics — Corrado Crocetta, Universitá di Foggia; Nicola Loperfido, Universitá di Urbino; ◆ Cinzia Franceschini, Universitá di Foggia

3:05 pm   Bayesian Inferences on Environmental Exceedances and Their Spatial Locations — ◆ Peter F. Craigmile, The Ohio State University; Noel Cressie, The Ohio State University; Thomas J. Santner, The Ohio State University; Youlan Rao, The Ohio State University

3:20 pm   The Power Prior as a Tool for Improving the Benefit Transfer in Environmental Valuation — ◆ Ulrike G. Lehr, University of Hohenheim

3:35 pm   Floor Discussion

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21   TCC-703

⚠ **Designing and Improving Surveys for Health Policy — Contributed**

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

Chair(s): Norma Terrin, Tufts-New England Medical Center

2:05 pm   A New Design for the Canadian National Seat Belt Survey — ◆ Aline Chouinard, Transport Canada

2:20 pm   Statistics for Global Health — ◆ David J. Fitch, Universidad del Valle de Guatemala; Roberto Molina Cruz, Universidad del Valle de Guatemala; Patrick D. Baier, George Washington University

2:35 pm   The Effects of Correcting for Sample Selection Bias in Internet Panel Surveys Based on Random Digit Dialing Sampling When Estimating the Demand for Preventative Health Care — Trudy A. Cameron, University of Oregon; ◆ J.R. DeShazo, University of California, Los Angeles; J. Michael Dennis, Knowledge Networks, Inc.; Rick J. Lee, Knowledge Networks, Inc.

2:50 pm   The Impact of 2000 Census-based Population Controls on Health Estimates in the National Health Interview Survey — ◆ Carrie Lynch, National Center for Health Statistics; Van L. Parsons, National Center for Health Statistics

3:05 pm   Soap Operas, Primetime Dramas, and Public Health: Analysis of National Consumer Panel Survey Data for Health Communication Planning — ◆ William E. Pollard, Centers for Disease Control and Prevention; Vicki Beck, USC Annenberg Norman Lear Center

3:20 pm   Measuring Self-report Symptoms of Depression in Organ Transplant Patients: Validation of a Multidimensional Model of CES-D Item Data — ◆ Irene D. Feurer, Vanderbilt Transplant Center; Hongxia Liu, Vanderbilt School of Nursing and Transplant Center; Kenneth T. Thomas, Vanderbilt Transplant Center; Ronald M. Salomon, Vanderbilt University Medical

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⊞ Themed Session   ⚠ Applied Session   ◆ Presenter   **ICH**-InterContinental Hotel   **FRY**-Fairmont Royal York Hotel   **TCC**-Metro Toronto Convention Centre

Center; Theodore Speroff, Vanderbilt University Medical Center; C. Wright Pinson, Vanderbilt Transplant Center

3:35 pm   Floor Discussion

22   TCC-802 A

▦ **Nonparametrics — Contributed**

IMS

Chair(s): Aerambamoorthy Thavaneswaran, University of Manitoba

2:05 pm   Asymptotic Distributions of Buckley-James Estimator With Discontinuous Error Distributions — ◆ Qiqing Yu, SUNY, Binghamton; Fanhui Kong, SUNY, Binghamton

2:20 pm   Nonparametric Functional Mapping of QTL — ◆ Jie Yang, University of Florida; George Casella, University of Florida

2:35 pm   Verification of the Variance Structure in Quasi-likelihood Functions — ◆ Steven G. Bai, Pennsylvania State University

2:50 pm   Estimation of a CDF and Its Derivative — ◆ François Perron, Université de Montréal

3:05 pm   Modeling Random Fluctuations in Molecules — ◆ Harshinder Singh, West Virginia University

3:20 pm   Nonparametric Simultaneous Confidence Bands for Current Status Data — ◆ Michael R. Kosorok, University of Wisconsin, Madison

3:35 pm   Tree-based Extrapolation Diagnostics for Machine Learning — ◆ Giles Hooker, Stanford University

23   TCC-709

⛰ **Gross Flow and Calibration — Contributed**

Section on Survey Research Methods

Chair(s): Stephen Cohen, Bureau of Labor Statistics

2:05 pm   A Look at Several Gross Flows Estimation Methods with the Current Population Survey — ◆ Stephen M. Miller, Bureau of Labor Statistics

2:20 pm   A Proposed Estimation Procedure for CPS Gross Flows — ◆ Edwin L. Robison, Bureau of Labor Statistics

2:35 pm   Sample Design and Weighting Features of the Safe Schools/Healthy Students Evaluation — ◆ Shelton Jones, RTI International; Lei Li, RTI International; Joseph McMichael, RTI International; Harper Gordek, RTI International; Allison Burns, RTI International

2:50 pm   Trimming Extreme Weights in Household Surveys — ◆ Benmei Liu, Westat; David L. Ferraro, Westat; J. Michael Brick, Westat; Erin Wilson, Westat

3:05 pm   Effect of Collapsing Rows/Columns of Weighting Matrix on Weights — ◆ Jay J. Kim, National Center for Health Statistics; Lawrence H. Cox, National Center for Health Statistics

3:20 pm   Estimating Basic Weights for the U.S. Consumer Price Index — ◆ Sylvia G. Leaver, Bureau of Labor Statistics; Darin T. Solk, Bureau of Labor Statistics

Sunday

3:35 pm An Alternative to the Principal Person Method for Weighting in the American Community Survey — ◆Keith Albright, U.S. Census Bureau; Alfredo Navarro, U.S. Census Bureau; Mark E. Asiala, U.S. Census Bureau

24   TCC-802 B

⚠️🔲 Statistical Applications in Economics and Finance — Contributed
Business and Economics Statistics Section
Chair(s): Lawrence C. Marsh, University of Notre Dame

2:05 pm On a Simple Econometric Approach for Utility-based Asset Pricing Model — ◆Jack C. Lee, National Chiao Tung University; Cheng-Few Lee, National Chiao Tung University; H.F. Ni, National Chiao Tung University

2:20 pm Imminence of Event and Scoring Models in Assessing Portfolio Risk — ◆Timothy H. Lee, CLConsulting

2:35 pm Financial Anomaly Detection: A Six Sigma Approach to Detecting Misleading Financials and Financial Decline — ◆Radu Neagu, General Electric Global Research Center; Deniz Senturk, General Electric Global Research Center; Christina LaComb, General Electric Global Research Center; Murat Doganaksoy, GE Global Research Center

2:50 pm Drift Function Modeling and Testing in Continuous Time Interest Rate Models — ◆Myung Suk Kim, Texas A&M University; Suojin Wang, Texas A&M University

3:05 pm Effect of Exchange-rate Volatility on Trade Volume: Evidences from a Threshold Model — ◆Hui S. Chang, University of Tennessee, Knoxville; Yanhong Zhang, University of Tennessee

3:20 pm Floor Discussion

25   TCC-801 B

Special Themes, Tools, and Topics to Incorporate in a Statistics Course — Contributed
Section on Statistical Education
Chair(s): Jen-Ting Wang, SUNY, Oneonta

2:05 pm History of Science and Statistical Education: Examples from Fisherian and Pearsonian Schools — ◆Chong Ho Yu, Aries Technology/Cisco Systems

2:20 pm Writing-to-learn in Elementary Statistics — ◆Ananda A. Jayawardhana, Pittsburg State University; Cynthia Woodburn, Pittsburg State University

2:35 pm Using Journal Articles in Intro Stat — ◆John C. Turner, U.S. Naval Academy

2:50 pm Getting Students to Put Their Hearts into Statistical Topics — ◆Michael C. Mosier, Washburn University

3:05 pm Introducing a Consulting Experience in a First-level Statistics Course — ◆Deborah Lurie, Saint Joseph's University

3:20 pm Introducing Regression Concepts via Relationships that are Thought to be Deterministic — ◆Christopher J. Malone, Winona State University

3:35 pm Floor Discussion

26   TCC-711

⚠️ Small Area Estimation #1 — Contributed
Section on Survey Research Methods, Section on Government Statistics
Chair(s): Georgia R. Roberts, Statistics Canada

2:05 pm Small-area Estimation with Autocorrelated Observations and Stochastic Benchmark Constraints — ◆Richard B. Tiller, Bureau of Labor Statistics; Danny Pfeffermann, Hebrew University and University of Southampton

2:20 pm Nonparametric Small-area Estimation Using Penalized Splines — ◆Jean Opsomer, Iowa State University

2:35 pm M-quantile Models for Small-area Estimation — ◆Raymond Chambers, University of Southampton; Nikolaos Tzavidis, University of Southampton

2:50 pm A Method of Reconciling Discrepant National and Subnational Employment and Unemployment Estimates — ◆Swamy A.V.B. Paravastu, Bureau of Labor Statistics; Jatinder S. Mehta, Temple University; i-Lok Chang, American University

3:05 pm A Study of Mass Imputation in Small-area Estimation — ◆Nancy Robbins, U.S. Census Bureau; Richard Moore, U.S. Census Bureau

3:20 pm Exploring the Feasibility of Using Small-area Estimation to Estimate Health Behaviors in Remote Areas in Taiwan — ◆Hsing-Yi Chang, National Health Research Institutes

3:35 pm Model-based Approaches for a Land-cover Map Accuracy Assessment of Northeastern Iowa — ◆Ben Skalland, Iowa State University; Tapabrata Maiti, Iowa State University; Sarah Nusser, Iowa State University

27   TCC-701 A

Statistics of the Brain — Contributed
Biometrics Section, ENAR
Chair(s): Diane Fisher, Louisiana State University, Eunice

2:05 pm A Complex Data Method to Compute fMRI Activation — ◆Daniel B. Rowe, Medical College of Wisconsin; Brent R. Logan, Medical College of Wisconsin

2:20 pm Flexible Modeling of Correlated Binary Data for Estimation of Neuron Firing Rates and Synchrony between Neurons — ◆Christel Faes, Limburgs Universitair Centrum; Helena M. Geys, Limburgs Universitair Centrum; Marc Aerts, Limburgs Universitair Centrum; Geert Molenberghs, Limburgs Universitair Centrum; Carmen Cadarso-Suarez, University of Santiago de Compostela

2:35 pm An Expectation-naximization Algorithm for Analyzing Multicenter Repeated Functional Magnetic Resonance Imaging Data — ◆Kelly H. Zou, Harvard Medical School; Steven D. Pieper, Brigham and Women's Hospital; Meng Wang, Brigham and Women's Hospital; Douglas N. Greve, Massachusetts General Hospital; Simon K. Warfield, Brigham and Women's Hospital; William M. Wells, III, Brigham and Women's Hospital; Ron Kikinis, Brigham and Women's Hospital; First Birn, Harvard University

2:50 pm Extracting Features of T2 Distributions from Magnetic Resonance Images of Human Brain Using Gamma Variate-fitting — ◆Angshuman Saha, General Electric Global Research Center; Sudeshna Adak, General Electric Global

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🔲 Themed Session   ⚠️ Applied Session   ◆ Presenter   **ICH**-InterContinental Hotel   **FRY**-Fairmont Royal York Hotel   **TCC**-Metro Toronto Convention Centre

Research Center; Tandon Reeti, General Electric Global Research Center; John Schenck, General Electric Global Research Center; Earl Zimmerman, Albany Medical Center

3:05 pm Resampling for Brain Volumetric Analysis — ◆ Wei Zhu, SUNY, Stony Brook; Yeming Ma, National Institutes of Health; Nora D. Volkow, National Institutes of Health; Manlong Rao, SUNY, Stony Brook; Gene-Jack Wang, Brookhaven National Laboratory

3:20 pm Classic Poisson Mixture Modeling with Application to Neuroscience — ◆ Zhuoxin Sun, University of Pittsburgh; Ori Rosen, University of Pittsburgh; Allan R. Sampson, University of Pittsburgh

3:35 pm Floor Discussion

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28   TCC-712

⚠ **Imputation — Contributed**
Section on Survey Research Methods
Chair(s): Ibrahim S. Yansaneh, International Civil Service Commission

2:05 pm Imputation Strategy for a Health and Nutrition Survey — ◆ Jeffrey M. Gossett, UAMS Pediatrics; Pippa M. Simpson, Arkansas Children's Hospital; Chan-hee Jo, UAMS Pediatrics; Rajiv Goel, UAMS Pediatrics; James G. Parker, UAMS Pediatrics; Margaret Bogle, U.S. Department of Agriculture

2:20 pm Practical Suggestions on Rounding in Multiple Imputation — ◆ Recai M. Yucel, Institute for Health Policy

2:35 pm Comparing Estimates and Variances for a Dataset with Missing Values and Multiple Hot-deck Imputations — ◆ Nuria Diaz-Tena, Mathematica Policy Research, Inc.; Frank Potter, Mathematica Policy Research, Inc.

2:50 pm Imputation and Unbiased Estimation: Use of the Centered Predictive Mean Neighborhoods Method — Avinash Singh, RTI International; ◆ Eric Grau, RTI International; Ralph Folsom, RTI International

3:05 pm Potential Methodologies for Count Imputation for the Decennial Census — ◆ Richard A. Griffin, U.S. Census Bureau

3:20 pm Floor Discussion

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29   TCC-718 B

⊞ **Clinical Trials — Contributed**
Biopharmaceutical Section
Chair(s): Gary Aras, Amgen, Inc.

2:05 pm Impact on Error Rates When Futility Criteria is Based on Secondary Endpoint — ◆ Akiko Okamoto, Johnson & Johnson Pharmaceutical R&D, LLC; Yi-wen Ma, Johnson & Johnson Pharmaceutical R&D, LLC; Surya Mohanty, Johnson & Johnson Pharmaceutical R&D, LLC

2:20 pm The Application of Enhanced Parallel Gatekeeping Strategies — ◆ Xun Chen, Merck & Co., Inc.; Edmund Luo, Merck & Co., Inc.; Thomas Capizzi, Merck & Co., Inc.

2:35 pm Fallback and Gatekeeping Strategies for Primary and Secondary Endpoints — ◆ Brian L. Wiens, Amgen, Inc.; Alexei Dmitrienko, Eli Lilly and Company; Peter H. Westfall, Texas Tech University

2:50 pm Application of Statistical Sampling Principles to Clinical Trial Management — Guy Cohen, Pfizer Inc.; ◆ Cynthia Siu, Roche Pharmaceuticals; Isma Benattia, Wyeth Pharmaceuticals;

Darryl Penenberg, Pfizer Pharmaceuticals; Vito Calamia, Pfizer Pharmaceuticals; Joan Rex, Wyeth Pharmaceuticals; Christine Clemente, Pfizer Pharmaceuticals

3:05 pm A Case Study of a Group-sequential Response Adaptive Clinical Trial — ◆ Roy Tamura, Eli Lilly and Company; Janelle Erickson, Eli Lilly and Company

3:20 pm On Statistical Properties of QT Correction Methods — ◆ Yibin Wang, Novartis Pharmaceuticals; Guohua Pan, Johnson & Johnson Pharmaceutical R&D, LLC; Alfred Balch, Novartis Pharmaceuticals

3:35 pm The Growing Role of the Biostatistician in Safety Assessment of Clinical Trials for Regulatory Approval — ◆ Michael Nessly, Merck & Co., Inc.

Special Presentation 4:00 pm–5:50 pm

30   ICH-Ballroom B

Introductory Overview Lecture on Proteomics: A New Field for Statistical Involvement
ASA, ENAR, WNAR, SSC, IMS
Organizer(s): Françoise Seillier-Moiseiwitsch, University of Maryland, Baltimore County
Chair(s): Farideh H. Dehkordi-Vakil, Western Illinois University

4:05 pm Proteomics: A New Field for Statistical Involvement — ◆ Françoise Seillier-Moiseiwitsch, University of Maryland, Baltimore County

4:50 pm Statistical Perspectives of Two-dimensional Gel Analysis — ◆ Anindya Roy, University of Maryland, Baltimore County

5:35 pm Floor Discussion

Invited Sessions 4:00 pm–5:50 pm

31   TCC-710

⚠ ⊞ **Women's Health: What About It? — Invited**
Cmte on Women in Statistics, Section on Health Policy Statistics, Social Statistics Section, Section on Statistics in Epidemiology
Organizer(s): Elizabeth H. Margosches, U.S. Environmental Protection Agency; R.J. O'Hara Hines, University of Waterloo; Susana Rubin Bleuer, Statistics Canada
Chair(s): R. J. O'Hara Hines, University of Waterloo

4:05 pm Assessing Tumors and Patient Prognosis in a Context of Tumor Heterogeneity: An Example with Noninvasive Breast Cancer — ◆ Judy-Anne Chapman, Henrietta Banting Breast Centre

4:30 pm Do Women with HIV Receive Appropriate Clinical Care in the U.S.? — ◆ Jayanti Mukherjee, Bristol-Myers Squibb Company; Yong Yuan, Bristol-Myers Squibb Company

4:55 pm Using Time and Space for Managing Care: Nurses' Experiences from Canada and the United States — ◆ Pat Armstrong, York University

5:20 pm Whom Do We Reach? Breast Screening for Women after 70 — ◆ Leslie A. Gaudette, Health Canada; Robert A. Spasoff, University of Ottawa

5:45 pm Floor Discussion

⊞ Themed Session   ⚠ Applied Session   ◆ Presenter   **ICH**-InterContinental Hotel   **FRY**-Fairmont Royal York Hotel   **TCC**-Metro Toronto Convention Centre

32   **ICH-Ballroom A**

⛰ ⌗ SAMSI Session on Scalability in Statistics and Science — Invited

Statistical and Applied Mathematical Sciences Institute, Section on Statistics and the Environment

Organizer(s): James Berger, Statistical and Applied Mathematical Sciences Institute

Chair(s): James Berger, Statistical and Applied Mathematical Sciences Institute

4:05 pm   Scalability of Models in Data Mining — ◆ David Banks, Duke University

4:35 pm   Multiscale Analysis of High Performance Materials — ◆ Ralph C. Smith, North Carolina State University; Alan E. Gelfand, Duke University

5:05 pm   Multiscale Statistical Analysis and Modeling of Burstiness in Internet Traffic — ◆ J. Stephen Marron, University of North Carolina

5:35 pm   Floor Discussion

33   **TCC-716 A**

⌗ Markov Chain Monte Carlo Algorithms — Invited

IMS, Section on Statistical Computing, Section on Bayesian Statistical Science

Organizer(s): Jeffrey Rosenthal, University of Toronto

Chair(s): Jeffrey Rosenthal, University of Toronto

4:05 pm   Simulating Diffusions — ◆ Gareth Roberts, Lancaster University

4:35 pm   A Mixture Representation of the Stationary Distribution — ◆ Jim Hobert, University of Florida; Christian Robert, Universite Paris Dauphine

5:05 pm   Perfect Sampling with Non-Markovian Update Functions — ◆ Mark L. Huber, Duke University

5:35 pm   Floor Discussion

34   **TCC-703**

⛰ ⌗ Adaptive Sampling Applications in Homeland Security — Invited

Cmte on Statisticians in Defense and National Security, Section on Statistics in Defense and National Security, Section on Survey Research Methods, Section on Statistical Computing, Social Statistics Section, Section on Government Statistics

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

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

4:05 pm   Adaptive Sampling in Network and Spatial Settings — ◆ Steven K. Thompson, Pennsylvania State University

5:15 pm   Disc: Myron Katzoff, National Center for Health Statistics

5:35 pm   Floor Discussion

35   **TCC-701 A**

⛰ Robust Analysis for Large Datasets — Invited

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

Organizer(s): David M. Rocke, University of California, Davis

Chair(s): Douglas Hawkins, University of Minnesota

4:05 pm   Robust Mixture Modeling — ◆ Geoffrey J. McLachlan, University of Queensland

4:35 pm   Clustering and Classification Based on the L1 Data Depth — ◆ Rebecka J. Jornsten, Rutgers University

5:05 pm   Robust Regression for Microarray Data Analysis — ◆ Arnold J. Stromberg, University of Kentucky; Johanna Hardin, Pomona College; Hanga Galfalvy, New York State Psychiatric Institute; Steven C. Grambow, Duke University Medical Center

5:35 pm   Floor Discussion

36   **TCC-801 B**

⛰ ⌗ Software Development in Survey Organizations — Invited

Section on Survey Research Methods, Section on Government Statistics, Section on Statistical Computing, Social Statistics Section, SSC

Organizer(s): Howard Hogan, U.S. Census Bureau

Chair(s): Thomas L. Mesenbourg, Jr., U.S. Census Bureau

4:05 pm   Software Process Improvement Efforts in the Economic Directorate — ◆ Howard Hogan, U.S. Census Bureau

4:30 pm   Agile Component-based Software Engineering over the Survey Life Cycle — ◆ Michael S. Tilkin, NORC, University of Chicago

4:55 pm   The Processing Environment behind a Statistical Program — ◆ Claude Poirier, Statistics Canada

5:20 pm   Disc: Cynthia Wise, Process Transition International, Inc.

5:45 pm   Floor Discussion

37   **TCC-718 A**

⛰ ⌗ Gene Expression QTL Analysis — Invited

ENAR, WNAR

Organizer(s): Zhao-Bang Zeng, North Carolina State University

Chair(s): Saunak Sen, University of California, San Francisco

4:05 pm   A Comparison of Transcript-centric and Marker-centric Approaches for Mapping Expression Trait Loci — ◆ Christina Kendziorski, University of Wisconsin, Madison; Meng Chen, University of Wisconsin, Madison

4:35 pm   Statistical Methods for Constructing Genetic Effect Network between QTL, Gene Expressions, and Phenotypes — ◆ Zhao-Bang Zeng, North Carolina State University

5:05 pm   Genetic Networks Derived from Gene Expression Data in Segregating Mouse Populations — ◆ Eric E. Schadt, Rosetta Inpharmatics

5:35 pm   Floor Discussion

⌗ Themed Session   ⛰ Applied Session   ◆ Presenter   **ICH**-InterContinental Hotel   **FRY**-Fairmont Royal York Hotel   **TCC**-Metro Toronto Convention Centre

38   TCC-717 B

Statistics in the Court Room — Invited
Section on Statistical Consulting, Section on Bayesian Statistical Science

Organizer(s): Charles R. Mann, Charles R. Mann Associates, Inc.
Chair(s): Charles R. Mann, Charles R. Mann Associates, Inc.

4:05 pm   Problems Arising in Statistical Expert Testimony — ◆ Joseph L. Gastwirth, George Washington University
4:35 pm   Responsibilities of the Statistician as Expert Witness — ◆ Joseph B. Kadane, Carnegie Mellon University
5:05 pm   A Lawyer's View of the Statistical Expert — ◆ Steven L. Willborn, University of Nebraska College of Law
5:35 pm   Floor Discussion

Invited Panels 4:00 pm - 5:50 pm

39   TCC-803 A

⊞ 'TEAMS' - Planning the Statistics Education of Future Teachers — Invited
Section on Statistical Education, Section on Quality and Productivity, Advisory Cmte on Teacher Enhancement

Organizer(s): Christine A. Franklin, University of Georgia
Chair(s): Christine A. Franklin, University of Georgia

Panelists: ◆ W. Robert Stephenson, Iowa State University
      ◆ Denise Mewborn, University of Georgia
      ◆ Murray H. Siegel, Sam Houston State University
      ◆ David Thiel, Southern Nevada Professional Development Program
5:45 pm   Floor Discussion

Topic Contributed Sessions 4:00 pm–5:50 pm

40   TCC-711

The Advanced Technology Program: Innovation and Outcomes of a Public-Private Partnership — Topic-contributed
Section on Government Statistics

Organizer(s): Stephanie Shipp, National Institute of Standards and Technology
Chair(s): Jeri M. Mulrow, National Science Foundation

4:05 pm   The Role of Small Firms in the U.S. R&D and Innovation System: Evidence from the Advanced Technology Program — ◆ Gary Anderson, National Institute of Standards and Technology
4:30 pm   Federal R&D Funding–Outcomes of Award Competition in the Advanced Technology Program — ◆ Stephen Campbell, National Institute of Standards and Technology; Andrew Wang, National Institute of Standards and Technology
4:55 pm   Industry R&D Collaboration–Project Performance and Outcomes in the Advanced Technology Program — ◆ Andrew Wang, National Institute of Standards and Technology; Stephen Campbell, National Institute of Standards and Technology

5:20 pm   Disc: John Jankowski, National Science Foundation
5:30 pm   Disc: Maryann Feldman, Joseph L. Rotman School of Management
5:40 pm   Floor Discussion

41   TCC-713 B

⛰ Creative Approaches to Combat the Brutal Environment of Telephone Surveys — Topic-contributed
Section on Survey Research Methods, Social Statistics Section

Organizer(s): Roberta L. Sangster, Bureau of Labor Statistics
Chair(s): Brenda G. Cox, Battelle

4:05 pm   Two Advance-letter Experiments to Raise Response Rates — ◆ Charles D. Shuttles, Nielsen Media Research; Paul J. Lavrakas, Nielsen Media Research; Jennie Lai, Nielsen Media Research
4:25 pm   Altering the Hold Period for Refusal Conversion Cases in an RDD Survey — ◆ Sherman Edwards, Westat; Dave Martin, Westat; Charles DiSogra, University of California, Los Angeles; David Grant, University of California, Los Angeles
4:45 pm   Optimizing Call Scheduling in an RDD Survey — ◆ Whitney E. Murphy, NORC, University of Chicago; Colm O'Muircheartaigh, NORC, University of Chicago; Cynthia Howes, NORC, University of Chicago
5:05 pm   Predicting Wave Nonresponse from Prior Wave Data Quality — ◆ Brian J. Meekins, Bureau of Labor Statistics; Roberta L. Sangster, Bureau of Labor Statistics
5:25 pm   Modeling the Likelihood of Interviews and Refusals: Using Call History Data to Improve Efficiency of Effort in a National RDD Survey — ◆ Roberta L. Sangster, Bureau of Labor Statistics; Brian J. Meekins, Bureau of Labor Statistics
5:45 pm   Floor Discussion

42   TCC-705

⛰⊞ Statistical Thinking and Understanding in the Pre-clinical Pharmaceutical Industry — Topic-contributed
Biopharmaceutical Section

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

4:05 pm   What Good is Statistical Thinking? — ◆ Bill Pikounis, Merck & Co., Inc.
4:25 pm   Statistical Thinking in the "Omics" Era — ◆ Alex Varbanov, Procter & Gamble
4:45 pm   Generating and Using Trustworthy Data from Plate Based Assays — ◆ James Kenyon, Bristol-Myers Squibb Company
5:05 pm   Statistical Considerations in Biomarker Method Development and Evaluation — ◆ Viswanath Devanarayan, Eli Lilly and Company
5:25 pm   Disc: Frank Shen, Bristol-Myers Squibb Company
5:45 pm   Floor Discussion

⊞ Themed Session   ⛰ Applied Session   ◆ Presenter   **ICH**-InterContinental Hotel   **FRY**-Fairmont Royal York Hotel   **TCC**-Metro Toronto Convention Centre

43   TCC-707
⛰ ⊞ Statistical Genetics: QTL Mapping — Topic-contributed
Biometrics Section, ENAR

Organizer(s): Paul J. Rathouz, University of Chicago; Francoise Seillier-Moiseiwitsch, University of Maryland, Baltimore County

Chair(s): James Wassell, Centers for Disease Control and Prevention

4:05 pm   A Rank-based Nonparametric Algorithm for QTL-mapping with the Use of Genome-wide Scan Data — ◆ Hui Wang, Columbia University; Tian Zheng, Columbia University; Shaw-Hwa Lo, Columbia University

4:25 pm   Regression-based Multivariate Quantitative Trait Locus Mapping — ◆ Steven G. Buyske, Rutgers University

4:45 pm   Fine Mapping of QTL in Complex Pedigrees — ◆ Natascha Vukasinovic, Monsanto Animal AG Genomics

5:05 pm   QTL-mapping of Gene Expression Levels of a Eucalyptus Backcross — ◆ Jessica M. Maia, North Carolina State University

5:25 pm   Gene Mapping in Recombinant Inbred Lines — ◆ Karl W. Broman, Johns Hopkins University

5:45 pm   Floor Discussion

44   TCC-803 B
⛰ ⊞ In Honor of Pat Doyle: Disclosure Limitation and Confidentiality Protection with Microdata Research — Topic-contributed
Section on Government Statistics, Section on Health Policy Statistics, Social Statistics Section

Organizer(s): Michael D. Larsen, Iowa State University

Chair(s): Michael D. Larsen, Iowa State University

4:05 pm   Sharing Confidential Data Among Multiple Agencies Using Multiply Imputed, Synthetic Data — ◆ Christine N. Kohnen, Duke University; Jerome Reiter, Duke University

4:25 pm   Full Rank Minimal Sufficient Statistics for Disclosure Limitation and Variance Estimation: A Practical Way to Release Count Information — ◆ Yves Thibaudeau, U.S. Census Bureau; William E. Winkler, U.S. Census Bureau

4:45 pm   Estimating Measurement Error in SIPP Annual Job Earnings: A Comparison of Census Survey and SSA Administrative Data — ◆ Martha H. Stinson, U.S. Census Bureau; John M. Abowd, Cornell University and U.S. Census Bureau

5:05 pm   Disc: J. Neil Russell, Bureau of Transportation Statistics

5:25 pm   Disc: Chester E. Bowie, U.S. Census Bureau

5:45 pm   Floor Discussion

45   TCC-717 A
From Genotypes to Expression Arrays: Complex Analysis of Genetic Data — Topic-contributed
Section on Bayesian Statistical Science

Organizer(s): Michael D. Swartz, Rice University/University of Texas M.D. Anderson Cancer Center

Chair(s): Marina Vannucci, Texas A&M University

4:05 pm   Stochastic Search Gene Suggestion: A Bayesian Hierarchical Model for Gene-mapping — ◆ Michael D. Swartz, Rice University/University of Texas M.D. Anderson

Cancer Center; Marek Kimmel, Rice University; Peter Mueller, University of Texas M.D. Anderson Cancer Center; Christopher I. Amos, University of Texas M.D. Anderson Cancer Center

4:25 pm   Sources of Measurement Error in Haplotype-tagging Studies of Complex Disease — ◆ Peter Kraft, Harvard School of Public Health

4:45 pm   SNPs, Haplotypes, and Model Selection in Candidate Gene Regions — ◆ David Conti, University of Southern California; William Gauderman, University of Southern California

5:05 pm   A Bayesian Method for Class Discovery and Gene Selection — ◆ Mahlet G. Tadesse, University of Pennsylvania; Naijun Sha, University of Texas, El Paso; Marina Vannucci, Texas A&M University

5:25 pm   Statistical Methods for Haplotype Estimation and Association Studies — ◆ Zhaoxia Yu, Rice University

5:45 pm   Floor Discussion

46   TCC-715 A
NISS/SAMSI on Data Mining — Topic-contributed
Section on Statistical Computing, Section on Government Statistics, Section on Statistical Graphics, Section on Physical and Engineering Sciences

Organizer(s): Murali Haran, National Institute of Statistical Sciences

Chair(s): Xiaodong Lin, NISS and SAMSI

4:05 pm   Bayesian Nonparametric Approach for Analyzing Mass Spectrometry Data — ◆ Leanna L. House, Duke University; Merlise Clyde, Duke University

4:25 pm   Bayesian Sample Sizes for Design and Inference — ◆ Bertrand S. Clarke, University of British Columbia/SAMSI

4:45 pm   Comparison of Two Multiple-tree Algorithms on High-throughput Screening Data from Drug Discovery: RandomForest and Partitionator — ◆ Katja S. Remlinger, North Carolina State University; Jacqueline M. Hughes-Oliver, North Carolina State University

5:05 pm   Characterization of Overcompleteness in Function Approximation — ◆ Ernest P. Fokoue, SAMSI

5:25 pm   A Bayesian Model for Relating Browsing Behavior to Site Structure on the World Wide Web — ◆ Murali Haran, National Institute of Statistical Sciences

5:45 pm   Floor Discussion

47   TCC-701 B
⛰ ⊞ Research at EPA-Supported Statistics Centers — Topic-contributed
Section on Statistics and the Environment

Organizer(s): Michael L. Stein, University of Chicago; N. Scott Urquhart, Colorado State University

Chair(s): Mark Delorey, Colorado State University

4:05 pm   Model Selection for Geostatistical Models — ◆ Andrew A. Merton, Colorado State University; Jennifer A. Hoeting, Colorado State University

4:25 pm   On the Recovery of Stratospheric Ozone — ◆ Serge Guillas, University of Chicago; Michael L. Stein, University of Chicago; Donald Wuebbles, University of Illinois, Urbana-Champaign

Sunday

⊞ Themed Session   ⛰ Applied Session   ◆ Presenter   **ICH**-InterContinental Hotel   **FRY**-Fairmont Royal York Hotel   **TCC**-Metro Toronto Convention Centre

4:45 pm Short-Term Respiratory Health Effects of Air Pollution in Metropolitan Chicago — ◆Vanja Dukic, University of Chicago; Paul J. Rathouz, University of Chicago; Edward Naureckas, University of Chicago; Dana Draghicescu, University of Chicago; John Frederick, University of Chicago; Chava Zibman, University of Chicago; Alexis Zubrow, University of Chicago

5:05 pm Bayesian Inferences of Disease Epidemics: Smallpox Outbreaks and Public Policy — ◆Bret D. Elderd, University of Chicago; Vanja Dukic, University of Chicago; Greg Dwyer, University of Chicago

5:25 pm Floor Discussion

Regular Contributed Sessions 4:00 pm–5:50 pm

48   TCC-716 B
Failure — Contributed
Section on Physical and Engineering Sciences
Chair(s): Robert Mee, University of Tennessee

4:05 pm An Updated Bibliography of Accelerated Test Plans — ◆Wayne B. Nelson, Wayne Nelson Statistical Consulting

4:20 pm Nonparametric Failure Distribution Analysis for Accelerated Degradation Test — ◆Shuen-Lin Jeng, Tunghai University

4:35 pm Reliability Characteristics of Failure-time Distribution for Performance Degradation — ◆Suk Joo Bae, University of Tennessee; Paul H. Kvam, Georgia Institute of Technology; Way Kuo, University of Tennessee

4:50 pm Bayesian Accelerated Degradation Models — ◆Arzu Onar, University of Miami; Fridtjof Thomas, Swedish National Road and Transport Research Institute

5:05 pm Enhanced Monte Carlo Estimation of the Probability of Failure in Aircraft Turbine Engines — ◆Peter W. Hovey, University of Dayton

5:20 pm A Bivariate Treatment of Truncated Warranty Data — ◆Jeffrey A. Robinson, General Motors R&D Center; Stefanka Chukova, Victoria University

5:35 pm The Distribution of the Present Value of a Nonrenewing Pro Rata Warranty — ◆John I. McCool, Pennsylvania State University, Great Valley

49   TCC-714 A
▲ Topics in Quality Control — Contributed
Section on Quality and Productivity
Chair(s): James D. Williams, Virginia Polytechnic Institute and State University

4:05 pm Diagnosing Shifts the Second and Higher Moments in Multivariate Changepoint Settings — ◆Joe H. Sullivan, Mississippi State University; Zachary G. Stoumbos, Rutgers University; Robert L. Mason, Southwest Research Institute; John C. Young, McNeese State University

4:20 pm Methods for Estimating the Time of a Shift in the Mean for Multivariate Data — ◆Steven E. Rigdon, Southern Illinois University, Edwardsville; Nicole J. Munden, Southern Illinois University, Edwardsville

4:35 pm Multivariate Process Control Under Regulatory Variables — ◆Amitava Mitra, Auburn University

4:50 pm On a Statistic to Assess the Randomness of Stability — ◆Kevin Anderson, Intel Corporation; Russ Sype, Intel Corporation

5:05 pm Inferences on the Parameters and System Reliability for a Failure-Truncated Power Law Process: A Bayesian Approach Using a Changepoint — ◆Mary Richardson, Grand Valley State University; Asit Basu, University of Missouri, Columbia

5:20 pm A Statistical Test for Compatibility of Two Software Usage Environments — ◆Daniel R. Jeske, University of California, Riverside

5:35 pm Bayesian Modeling of Accelerated Life Tests with Random Effects — ◆Ramon V. Leon, University of Tennessee; Avery Ashby, University of Tennessee; Jayanth Thyagarajan, University of Tennessee

50   TCC-714 B
Nonlinear and Generalized Linear Models — Contributed
ENAR, Biometrics Section, General Methodology
Chair(s): Brent A. Johnson, University of North Carolina

4:05 pm Practical Considerations for Constructing Confidence Intervals for Nonlinear Functions — ◆Paul E. Duty, University of Missouri; Nancy Flournoy, University of Missouri

4:20 pm A Partial Coefficient of Determination for Generalized Linear Models — ◆Sundar Natarajan, NYU School of Medicine and the VA New York Harbor Healthcare System; Stuart R. Lipsitz, Medical University of South Carolina

4:35 pm A Goodness-of-fit Test for Logistic Regression Models with Continuous Predictors — ◆Xianjin Xie, University of Iowa; Jane Pendergast, University of Iowa; William R. Clarke, University of Iowa

4:50 pm Comparing Discrimination Rules for Two Populations — ◆Esteban Walker, Cleveland Clinic Foundation; Yaomin Xu, Cleveland Clinic Foundation

5:05 pm An Index of Discrimination for Logistic Regression Models with Ordinal Responses — ◆Michael P. McDermott, University of Rochester; Christopher A. Beck, University of Rochester Medical Center

5:20 pm Modeling Ordinal Categorical Data — ◆John L. Fresen, Medical University of Southern Africa

5:35 pm Augmented Marginal Log-linear Models for Capture-recapture Studies — ◆Elizabeth L. Turner, McGill University; Alain C. Vandal, McGill University/SMBD Jewish General Hospital

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⊞ Themed Session   ▲ Applied Session   ◆ Presenter   **ICH**-InterContinental Hotel   **FRY**-Fairmont Royal York Hotel   **TCC**-Metro Toronto Convention Centre

51   TCC-712
Distribution Theory and Stochastic Processes — Contributed
IMS
Chair(s): Vasant Waikar, Miami University

4:05 pm   Searching for Searchers — ◆ Colin L. Mallows, Avaya Labs Research; Jean Meloche, Avaya Labs Research

4:20 pm   Mutual Information for the Multinomial Distribution — ◆ Walfredo R. Javier, Southern University, Baton Rouge; Arjun K. Gupta, Bowling Green State University

4:35 pm   Statistical Tests for Detecting Dependence Relations among Random Variables Generating Random Sets — ◆ Franz Streit, Université de Genève

4:50 pm   Conditional Saddlepoint Approximations for Noncontinuous and Nonlattice Distributions — ◆ John E. Kolassa, Rutgers University; John Robinson, University of Sydney

5:05 pm   Recurrence of Markov Chains with an Application to Admissibility — ◆ Galin Jones, University of Minnesota

5:20 pm   Statistics in Music Analysis — ◆ Steven J. Sepanski, Saginaw Valley State University

5:35 pm   Nonlinear Tikhonov Regularization for Statistical Inverse Problems — ◆ Nicolai Bissantz, University of Goettingen

52   TCC-713 A
⛰ Calibration — Contributed
Section on Survey Research Methods
Chair(s): Tamara S. Adams, U.S. Census Bureau

4:05 pm   Minimum MSE Regression Estimation–May be Upper Bound but not Lower Bound of Variance — ◆ Mingue Park, University of Nebraska

4:20 pm   Calibration Methods for Foreign and Domestic Investment in Canada — ◆ Leon Jang, Statistics Canada; Marie-Claude Duval, Statistics Canada

4:35 pm   Golden and Silver Jubilee Year-2003 of the Linear Regression Estimators — ◆ Sarjinder Singh, St. Cloud State University

4:50 pm   Survey Calibration to CPS Household Statistics — ◆ Varma Nadimpalli, Westat; David R. Judkins, Westat; Adam Chu, Westat

5:05 pm   Calibrated Imputation for the Drug Abuse Warning Network — ◆ Andrea R. Piesse, Westat; James L. Green, Westat

5:20 pm   Calibration Estimation for Quantiles — ◆ Torsten N.J. Harms, Université de Montréal; Pierre Duchesne, Université de Montréal

5:35 pm   Calibration-weighting and Its Effect on Measures of Variation — ◆ Richard A. Moore, Jr., U.S. Census Bureau

53   TCC-802 A
⊞ Mixture Models and Clustering — Contributed
General Methodology
Chair(s): Eleanne Solorzano, University of New Hampshire

4:05 pm   A Unified Approach to Studying Two-level Structural Equation Models and Linear Mixed Effects Models — ◆ Jiajuan Liang, University of New Haven; Peter M. Bentler, University of California, Los Angeles

4:20 pm   Identifiability of Finite Mixtures — ◆ Hajo Holzmann, University of Goettingen

4:35 pm   A Mixture Model Using Poisson Kernel Components — ◆ Ke Yang, Pennsylvania State University; Bruce G. Lindsay, Pennsylvania State University

4:50 pm   Applying MASAL to Estimate the Distribution of Response Lag in Transcriptional Regulatory Networks — ◆ Fenghai Duan, Yale University

5:05 pm   Simple Heterogeneity Variance Estimation for Meta-analysis — ◆ Jeffrey N. Jonkman, Mississippi State University; Kurex Sidik, Wyeth Research

5:20 pm   Testing Homogeneity in Discrete Mixtures via L-Two Distances — ◆ Richard J. Charnigo, University of Kentucky; Jiayang Sun, Case Western Reserve University

5:35 pm   Effect of Using Principal Coordinates and Principal Components on Retrieval of Clusters — ◆ William Warde, Oklahoma State University

54   TCC-802 B
⊞ Robustness — Contributed
General Methodology
Chair(s): Ross M. Gosky, North Carolina State University

4:05 pm   Robust Regression with Neural Networks Using Iterative Learning Trimmed Elemental Estimators — ◆ Matthew Hall, University of Kansas Medical Center; Matthew Mayo, University of Kansas Medical Center

4:20 pm   A New Robust Regression Estimator with Self-tuning Weights — YouSung Park, Korea University; ◆ DongHee Lee, Korea University

4:35 pm   Robust Tests for the Equality of Variances for Clustered Data — ◆ Ivan Iachine, University of Southern Denmark; Hans C. Petersen, University of Southern Denmark

4:50 pm   Robust Instrumental Variable Estimator for Measurement Error Models — ◆ Gabriela Cohen-Freue, University of Maryland, College Park; Ruben Zamar, University of British Columbia

5:05 pm   Comparisons of Bias Curves of Some Robust Estimators of Scale — ◆ Daniela Szatmari-Voicu, University of Calgary; John Collins, University of Calgary

5:20 pm   Robust Detection of Multiple Outliers in Grouped Multivariate Data — ◆ Nedret Billor, Auburn University; Chrys Caroni, National Technical University of Athens

5:35 pm   Robust Fitting of Multinomial Models Based on Assessment of Model — ◆ Jiawei Liu, Pennsylvania State University; Bruce G. Lindsay, Pennsylvania State University

55   TCC-709
Methods for Case-control Studies and Logistic Regression — Contributed
Section on Statistics in Epidemiology, Biometrics Section
Chair(s): Ying Guo, Emory University

4:05 pm   Impact of the Coexistence of a Composite Score and Its Components in a Multiple Logistic Regression Model on Predicting Clinical Outcomes — ◆ Yen-Hong Kuo, Jersey Shore University Medical Center

4:20 pm   Estimating Relative Risk Parameters in Presence of Missing Covariates — ◆ Jinbo Chen, National Cancer Institute;

⊞ Themed Session   ⛰ Applied Session   ◆ Presenter   **ICH**-InterContinental Hotel   **FRY**-Fairmont Royal York Hotel   **TCC**-Metro Toronto Convention Centre

Nilanjan Chatterjee, National Cancer Institute; Mitchell H. Gail, National Cancer Institute

4:35 pm The Effect of Differential Misclassification of Exposure Status in Case-control Study — ◆ Tzesan D. Lee, Centers for Disease Control and Prevention

4:50 pm Analyses of Case-control Studies Using Bayesian Approach — ◆ Kuang Fu Cheng, National Central University

5:05 pm Describing Stratified Multiple Responses for Sparse Data — ◆ Ivy Liu, Victoria University of Wellington

5:20 pm Floor Discussion

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56   TCC-715 B
⛰ Methods and Applications in Epidemiology — Contributed
Section on Statistics in Epidemiology
Chair(s): Shande Chen, University of North Texas, Fort Worth

4:05 pm Comparing Restricted Cubic Splines to Fractional Polynomials for Obtaining Reference Percentiles of Clinical Measurements — ◆ Stephen D. Weigand, Mayo Clinic; Steven D. Edland, Mayo Foundation & Mayo Clinic; Clifford R. Jack, Jr., Mayo Clinic; Maria M. Shiung, Mayo Clinic

4:20 pm Using Tensor Product Splines in Modeling Exposure-time-response Relationships: Application to the Colorado Plateau Uranium Miners Cohort — ◆ Kiros Berhane, University of Southern California; Michael Hauptmann, National Cancer Institute; Bryan Langholz, University of Southern California

4:35 pm Bayesian Analysis of Negative Binomial Models applied to Lyme Disease in New York State — ◆ Haiyan Chen, SUNY, Albany and NYSDOH; Howard H. Stratton, SUNY, Albany

4:50 pm Combining Variables by the Use of Principal Components Can Lead to an Index with Low Reliability–Two Examples — ◆ John S. Grove, John A. Burns School of Medicine; Clementina Ceria, University of Hawaii, Manoa; J. David Curb, Pacific Health Research Institute

5:05 pm Modeling Variations over Time Using Multilevel Procedures: An Illustration to Model Counts and Number of Protected Coital Acts — ◆ Emelita L. Wong, Family Health International

5:20 pm An Application of Recurrent Events Analysis — ◆ Alexander Cambon, University of Louisville

5:35 pm Floor Discussion

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57   TCC-706
New Developments in Time Series Methodology — Contributed
Business and Economics Statistics Section
Chair(s): Mary M. Whiteside, University of Texas, Arlington

4:05 pm Simple and General Tests for White Noise — ◆ Ignacio N. Lobato, Instituto Tecnologico Autonomo de Mexico; Carlos Velasco, Universidad Carlos III de Madrid

4:20 pm Stability of Cyclic Threshold Autoregressive Time Series Models — ◆ Thomas R. Boucher, Virginia Polytechnic Institute and State University; Daren B.H. Cline, Texas A&M University

4:35 pm Recursive Estimation of Misspecified MA(1) Models: General Results — ◆ James Cantor, Science Applications International Corporation; David F. Findley, U.S. Census Bureau

4:50 pm On Multiple-hypotheses-testing and Model Selection — ◆ Kasing Man, Syracuse University; Chung Chen, Syracuse University

5:05 pm Optimal Filters for Contemporaneously Aggregated Series — ◆ Georgios Tripodis, London School of Economics

5:20 pm Representation of Multiplicative Vector Autoregressive Moving Average Processes — ◆ Ceylan Yozgatligil, Temple University; William W.S. Wei, Temple University

5:35 pm Floor Discussion

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58   TCC-718 B
⛰ Imputation and Missing Values — Contributed
Section on Survey Research Methods
Chair(s): Moon Jung Cho, Bureau of Labor Statistics

4:05 pm Comparing Impact of Alternative Approaches for Item Imputation in the Job Openings and Labor Turnover Survey — ◆ Mark Crankshaw, Bureau of Labor Statistics

4:20 pm Embedding Logic Checks in an Automated Hot-deck Imputation of Survey Data — ◆ Rong Huang, University of California, Los Angeles; Wei Yen, University of California, Los Angeles; Jenny Chia, University of California, Los Angeles

4:35 pm Using Name Information to Impute Respondent Demographics — ◆ Darryl V. Creel, Mathematica Policy Research, Inc.; Paul Guerino, Mathematica Policy Research, Inc.; Donsig Jang, Mathematica Policy Research, Inc.

4:50 pm Nonresponse Adjustment in IRS Taxpayer Compliance Studies — ◆ Karen C. Masken, IRS

5:05 pm A Comparison of the Characteristic Imputation in Census 2000 to the Accuracy and Coverage Evaluation Survey for Matched Persons — ◆ Robert D. Sands, U.S. Census Bureau

5:20 pm A Simple Evaluation of the Imputation Procedures Used in NSDUH — Eric Grau, RTI International; ◆ Pete Frechtel, RTI International; Dawn Odom, RTI International; Dicy Painter, Substance Abuse and Mental Health Services Administration

5:35 pm Floor Discussion

Invited Posters 6:00 pm–7:50 pm

59   TCC-Exhibit Hall E
Invited Poster Session — Invited
Biometrics Section, Section on Bayesian Statistical Science, Section on Statistical Computing, Section on Statistics and the Environment, Section on Government Statistics, Section on Physical and Engineering Sciences, Section on Survey Research Methods, Social Statistics Section, IMS, WNAR
Organizer(s): Vanja Dukic, University of Chicago
Chair(s): Vanja Dukic, University of Chicago

Sampling and survey methodology

01 Modeling Survey Nonresponse in Dichotomous Processes — ◆ Jacob J. Oleson, Arizona State University; Chong He, University of Missouri, Columbia

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⊞ Themed Session   ⛰ Applied Session   ◆ Presenter   **ICH**-InterContinental Hotel   **FRY**-Fairmont Royal York Hotel   **TCC**-Metro Toronto Convention Centre

02 Graphical Display of Uncertainty and Related Tools for Inference — ◆John L. Eltinge, Bureau of Labor Statistics

Environmetrics, ecology, agriculture, wildlife management
03 Spatial Statistics for Modeling Phytoplankton — ◆Leah J. Welty, Johns Hopkins University; Michael L. Stein, University of Chicago

Genetics, bioinformatics, computational biology
04 Model-based Clustering Methods in Population-genetic Inference — ◆Eric C. Anderson, Southwest Fisheries Science Center

Engineering and physical sciences, chemometrics
05 Highly Structured Models and High-energy Astrophysics — ◆David A. van Dyk, University of California, Irvine

Data mining and knowledge discovery, machine learning
06 Boosting Extensions to Find Anomaly Structure in Data — ◆Virginia L. Wheway, Boeing Company

Pattern recognition, computer vision, shape analysis, signal processing
07 Pattern Filtering for Acoustic Recognition Using Point Processes — ◆Zhiyi Chi, University of Chicago

Neuroscience, brain imaging
08 Can Sheer Will Control a Robot Arm? — ◆Valerie Ventura, Carnegie Mellon University

Bayesian statistics, hierarchical models
09 Bayesian Methods for Analyzing Speech Recognition Scores — ◆Matthew J. Hayat, National Institutes of Health; Prakash Laud, Medical College of Wisconsin

Biometrics, biostatistics, epidemiology
10 Statistical Challenges in the Analysis of Mass Extinctions — ◆Steve C. Wang, Swarthmore College

Probability, mathematical statistics, stochastic processes
11 Stochastic Particle Systems' Approach to Modeling of Viscous Flows — ◆Anna Amirdjanova, University of Michigan

Government statistics
12 The Foundation of Human Rights Statistics in Sierra Leone — ◆Richard Conibere, Benetech

OPENING MIXER

Sunday, August 8
8:00 p.m.–10:30 p.m.
Metro Toronto Convention Centre
Exhibit Hall G