Proceedings of the Fourth International Conference on Establishment Surveys

Tue, Jun 12

C2 Disclosure Avoidance	8:30 AM - 10:10 AM Drummond Centre

Chair(s): Scott Austin Ginder, RTI International

8:35 AM	[Modeling Aggregates for Reliability and Confidentiality of Output with Application to the QCEW](#)
9:00 AM	[Rethinking Sensitivity and Disclosure Risk: QCEW Establishment Data](#)
9:25 AM	[Technology Advancing Data Collection: Implementing Thin Client Computer Assisted Personal Interviewing Into National Agricultural Statistics Services' Field Data Collection Program](#)

C31 Time series and measuring recessions	8:30 AM - 10:10 AM Drummond West

Chair(s): Bonnie E Shook-Sa, RTI International

8:35 AM	[An Empirical Comparison of Benchmarking Methods for Economic Stock Time Series](#)
8:55 AM	[Investigating Residual Seasonality in Final Real Dollar Foreign Trade Series](#)
9:15 AM	[Examining Labor Market Fluctuations Using the Business Employment Dynamics Time Series](#)
9:35 AM	[Cyclical Analysis of Business Employment Dynamics Firm and Establishment Size Data](#)

C7 Quality Measures	8:30 AM - 10:10 AM Drummond East

Chair(s): Stephanie Fry, Westat (U.S.)

8:35 AM	[Identifying and resolving reporting errors in an annual establishment survey; Lessons from the NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering](#)
8:55 AM	[Metrics for Measuring Data Quality at NASS's National Operations Center](#)

| 9:15 AM | Evaluation of Using CVs as a Publication Standard |
| 9:35 AM | Can the distribution of long term care resident characteristics be estimated with establishment-level information? |

| **INV1 Large-scale Harmonisation of Survey Programs** | 8:30 AM - 10:10 AM
Ballroom West |

Organizer(s): François Brisebois, Statistics Canada

Chair(s): Anne Sigda Russell, U.S. Census Bureau

8:35 AM	The new French System of Production of Structural Business Statistics
9:00 AM	Methodological Challenges in the Development of Statistics Canada New Integrated Business Statistics Program
9:25 AM	Harmonisation of practices for infra-annual macroeconomic statistics at Eurostat: a rationalised approach based on tools, guidelines and handbooks

Discussant(s): Eden Brinkley, Australian Bureau of Statistics

| **INV2 Insights into the response process model and measurement error for establishment surveys** | 8:30 AM - 10:10 AM
Ballroom East |

Organizer(s): Danna Lee Moore, Associate Director, SESRC WSU

Chair(s): Danna Lee Moore, Associate Director, SESRC WSU

8:35 AM	Establishment Survey Response Process and Measurement Error: How and Why Are They Connected?
9:00 AM	Social Network Analysis as a Tool for Assessing Respondent Burden and Measurement Error in Establishment Surveys
9:25 AM	Not Willing, Not Able: Causes of Measurement Error in Business Surveys

Discussant(s): Joseph Parsons, National Agricultural Statistics Service, US Department of Agriculture

| **TC1 The Synthetic Longitudinal Business Database:Construction, Validation, Applications and Access** | 8:30 AM - 10:10 AM
Salon 6/7 |

Organizer(s): Javier Miranda, US Census Bureau

Chair(s): Jerry P Reiter, Duke University

| 8:35 AM | Towards Unrestricted Public Use Business Microdata: |

	Construction of The Synthetic Longitudinal Business Database
9:00 AM	The contribution of labor reallocation to aggregate productivity growth: a synthetic data approach for the United States
9:25 AM	Towards Unrestricted Public Use Business Microdata: The Synthetic Longitudinal Business Database. Access Protocols.

Discussant(s): Jorg Drechsler, Institute for Employment Research (IAB)

C14 Integration and Redesign of Health Care Surveys	10:40 AM - 12:20 PM Drummond Centre

Chair(s): Clarice Brown, National Center for Health Statistics (U.S.)

10:45 AM	The Integrated Survey Design of the MEPS Insurance Component (MEPS-IC) Establishment Survey
11:05 AM	Designing the National Hospital Care Survey
11:25 AM	Redesigning National Surveys of Long-Term Care Providers
11:45 AM	The development of methodologies to better get information from health services in Brazil

C21 Editing and Imputation	10:40 AM - 12:20 PM Drummond East

Chair(s): Elizabeth Copello, RTI International

10:45 AM	Automatic editing of tick-box data in business collections
11:05 AM	Survey Process Control with Significance Editing: Foundations, Perspectives, and Plans for Development
11:25 AM	Assessing the Validity of an Imputation Method Using Data from Comparable External Sources
11:45 AM	Improving the Quality of the DAWN Data through Imputation

C4 Weighting and Variance Estimation	10:40 AM - 12:20 PM Drummond West

Chair(s): Fritz Scheuren, NORC at the University of Chicago

10:45 AM	Innovative Estimation Strategies for the U. S. Green Goods and Services Survey

11:05 AM	[Investigating estimation methods under a reduced sample size – Application to the survey of capital expenditure](#)
11:25 AM	[Evaluation of Changes in Generalized Variance Function Estimators Following Revision of Publication Structure](#)
11:45 AM	[Sample Design and Multi-Method Sample Allocation](#)

INV3 Managing the Balance Among Cost, Quality and Risk in the Design and Implementation of Establishment Surveys	10:40 AM - 12:20 PM Ballroom West

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

Chair(s): Ron S Jarmin, US Census Bureau

10:45 AM	[Collection and Evaluation of Information on Cost, Quality and Risk Factors in Establishment Surveys](#)
11:05 AM	[Data Quality Assurance - Quality Gates Framework for Statistical Risk Management](#)
11:25 AM	[Embedded Experiment for Non-Response Follow-Up Methods of Electronic Questionnaire Collection](#)
11:45 AM	[Microsimulation of a Government Survey](#)

Discussant(s): Steven Klement, U.S. Census Bureau

INV4 Melting Pot of Solutions: Using Collaborative Work to Improve Establishment Surveys	10:40 AM - 12:20 PM Salon 6/7

Organizer(s): Darcy Miller, USDA, National Agricultural Statistics Service

Chair(s): Denise Abreu, National Agricultural Statistics Service

10:45 AM	[A model-based approach to forecasting corn and soybean yields](#)
11:10 AM	[Investigating Adjustment Methodologies for the Census of Agriculture](#)
11:35 AM	[Imputation in High Dimensional Economic Data as Applied to the Agricultural Resource Management Survey (ARMS)](#)

Discussant(s): Partha S. Lahiri, University of Maryland

IOL2/3 IOL2/3: GREG Calibration and Nonresponse Adjustment	10:40 AM - 12:20 PM Ballroom East

Chair(s): Frank Potter, Mathematica Policy Research, Inc.

10:45 AM	[An Introduction to Calibration Weighting for Establishment Surveys](#)
11:35 AM	[Balanced Response and Nonresponse Weighting Adjustments](#)

C18 Questionnaire Design and Testing	1:40 PM - 3:20 PM Drummond West

Chair(s): Paul Beatty, National Center for Health Statistics (U.S.)

	WITHDRAWN - Continuous Improvement of the Commodity Flow Survey
1:45 PM	[Early Stage Scoping in Establishment Surveys: Bridging the Gap between Survey Concepts and Survey Questions](#)
2:10 PM	[Usability testing and evaluation of questionnaire re-design work](#)
2:35 PM	[Using an Action-Research Model to Develop a Grid on a Self-Administered Questionnaire](#)

C24 Uses of Administrative Data	1:40 PM - 3:20 PM Drummond East

Chair(s): Kenneth Pick, U.S. Energy Information Administration

1:45 PM	[Efficient use of administrative data in the production of economic statistics in Finland](#)
2:05 PM	[A risk of using administrative data for statistical purposes – a case study in the Swedish survey Newly Started Enterprises](#)
2:25 PM	[Integration of a State specific sampling database with the NASS List Sampling Frame: a Case Study of the California Fruit Acreage Database](#)
2:45 PM	[Three Pillars for a New Statistical System on Enterprises:Business Register, Thematic Surveys and Business Census 2011](#)

INV5 Making Economic Indicator Statistics More Useful With Data Dissemination and Visualization Software	1:40 PM - 3:20 PM Salon 6/7

Organizer(s): Mark Edward Wallace, United States Census Bureau

Chair(s): Wendy Martinez, U.S. Bureau of Labor Statistics

1:45 PM	Improved Access to U.S. Economic Indicators: Implementation, Outreach, and Future Development
2:10 PM	Wikiprogress by OECD
2:35 PM	Using Data Visualizations to Improve Presentation and Marketing of the North American Transportation Statistics Online Database

Discussant(s): Patrick Hinderdael, International Monetary Fund

| **INV6 Use of nonparametric regression analysis methods with establishment survey data** | 1:40 PM - 3:20 PM Ballroom East |

Organizer(s): Michail Sverchkov, Bureau of Labor Statistics

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

1:45 PM	Identifying Factors Affecting Nonresponse Rates of Complex Surveys
2:10 PM	Small Area Estimation using Generalized Kernel Regression
2:35 PM	On X-11 Seasonal Adjustment and Estimation of its MSE: Application to Current Employment Statistics (CES) Employment Series

Discussant(s): Alan H. Dorfman, U.S. Bureau of Labor Statistics

| **IOL5 IOL5: Response Burden** | 1:40 PM - 3:20 PM Ballroom West |

Chair(s): Lauren Harris-Kojetin, CDC

| 1:45 PM | Non-response Reduction Techniques in Establishment Surveys: Introductory Overview Lecture |
| 2:25 PM | Response Burden: Introductory Overview Lecture |

| **TC2 Introduction to Deaths in Custody Reporting Program** | 1:40 PM - 3:20 PM Drummond Centre |

Organizer(s): Christopher S. Ellis, RTI International

Chair(s): Christopher S. Ellis, RTI International

| 1:45 PM | Are You In or Out? Managing a Dynamic Frame of Jails and Contacts |
| 2:05 PM | Sorry to Bother You Again: Ensuring High Response Rates while Minimizing Respondent Burden |

| 2:25 PM | Have It Your Way: Managing Data and Business Preferences in a Multimode Collection |
| 2:45 PM | The Price of Perfection: Analyzing the Cost & Benefits of Extensive Data Quality Follow-up |

C1 Business Registers	3:50 PM - 5:30 PM Salon 6/7

Chair(s): Kristin Stettler, U.S. Census Bureau

3:55 PM	Evaluating a Sampling Frame of Private Security Firms
4:15 PM	Evaluating frame coverage for an establishment survey
4:35 PM	WITHDRAWN - Private Schools in America: An Overview of the Private School Universe Survey Frame Creation and Processing
4:55 PM	Eligibility status in Business Surveys – How to get the information and how to use it

C23 Macro-editing and Detecting Outliers	3:50 PM - 5:30 PM Drummond Centre

Chair(s): Dhuly Chowdhury, RTI

3:55 PM	Model Based Macro-Editing Approach to State and Area Estimates from the Current Employment Statistics Survey
4:15 PM	A Comparison of Hierarchical and Hidiroglou-Berthelot Macro-edits
4:35 PM	Evaluation of Macro Editing Techniques for the Quarterly Financial Report
4:55 PM	Study of Treatment of Influential Values in a Monthly Retail Trade Survey

INV7 Integrated systems and architectures for production of economic statistics	3:50 PM - 5:30 PM Ballroom West

Organizer(s): Boris Lorenc, Statistics Sweden

Chair(s): Boris Lorenc, Statistics Sweden

| 3:55 PM | Implementing an integrated program of economic statistics - An ABS perspective |

4:20 PM	The Integrated Business Statistics Program: An Overview
4:45 PM	Redesign of the Chain of Economic Statistics in the Netherlands

Discussant(s): Anders Holmberg, Statistics Sweden

INV8 Disclosure Limitation Methods for Tabular Data	3:50 PM - 5:30 PM Drummond West

Organizer(s): Daniell Toth, Bureau of Labor Statistics

Chair(s): Steven Cohen, National Science Foundation

3:55 PM	Public use business establishment microdata: Protecting confidentiality and providing utility with synthetic data
4:20 PM	Trend and BED Statistics Using Synthetic and Multiplicative Noise Models for Disclosure Limitation
4:45 PM	Disclosure Limitation for the Quarterly Census of Employment and Wages

Discussant(s): Lawrence Cox, National Institute of Statistical Sciences (NISS)

IOL7 IOL7: Price Indices	3:50 PM - 5:30 PM Drummond East

Chair(s): Anne Sigda Russell, U.S. Census Bureau

3:55 PM	Price Indices
4:35 PM	Price Indices

TC3 Challenges and Innovations in Job Vacancy surveys: An International Perspective	3:50 PM - 5:30 PM Ballroom East

Organizer(s): Hans Kiesl, Regensburg University of Applied Sciences

Chair(s): Hans Kiesl, Regensburg University of Applied Sciences

3:55 PM	Modifications to the Job Openings and Labor Turnover Survey
4:15 PM	Job vacancy statistics in Switzerland : a 20-year perspective
4:35 PM	The Integral Link between JVS (Job Vacancy Survey) and BTS (Business Tendency survey) – Israel's Experience
4:55 PM	Job vacancy statistics in France: a new approach since the end of 2010. Analysis of the response behaviour of surveyed

Wed, Jun 13

IOL1: Small Area Estimation	8:30 AM - 10:10 AM Drummond East

Chair(s): Scot Rumburg, USDA, National Agricultural Statistics Service

8:35 AM	A Primer on Model-Based Small Area Estimation with Applications To Establishment Surveys
9:15 AM	Small Area Estimation in Practice

C15 Issues in Longitudinal Surveys	8:30 AM - 10:10 AM Drummond West

Chair(s): Brad Edwards, Westat

8:35 AM	Creating a longitudinal panel of new businesses using multiple modes
8:55 AM	Characteristics of Respondents to a Longitudinal Survey of New Firms
9:15 AM	How Stable are Responses Over Time
9:35 AM	Meta-Analytic Approaches for Analyzing Survey Data

C16 Improving Response Rates: Results from Experiments	8:30 AM - 10:10 AM Ballroom East

Chair(s): Jacqui Yvette Jones, UK Office for National Statistics

8:35 AM	Trying to improve response rates by lowering the perceived response burden of a survey
8:55 AM	Evaluating the Effectiveness of Two Strategies to Improve Telephone Survey Response Rates of Employers
9:15 AM	Using alternative correspondence messages and modes to increase response rates
9:35 AM	Do Different Correspondence Methods Improve Response Rates for Out of Scope Cases?

C29 Non-Response Adjustment Methods	8:30 AM - 10:10 AM Salon 5

Chair(s): Manisha Sengupta, National Center for Health Statistics (US)

8:35 AM	Generalized calibration to deal with non-ignorable nonresponse in the German job vacancy survey
8:55 AM	Reduced Bias and Increased Variance: A Possible Trade-off in Calibration for Non-response Treatment
9:15 AM	Consumer and Business Payment Behavior in a Survey of Banks: Estimation and Allocation
9:35 AM	Modeling nonresponse effects for labor turnover

C32 Producer Price Indices and other Economic Indicators	8:30 AM - 10:10 AM Drummond Centre

Chair(s): Fawzi Al Nassir, SRA International, Inc.

8:35 AM	Producer Price Index: The Brazilian Experience
9:00 AM	WITHDRAWN - Price Indices
9:25 AM	The World Bank's Enterprise Surveys Initiative

C9 Sampling Methods and Frame Development	8:30 AM - 10:10 AM Salon 6/7

Chair(s): Richard Sigman, Westat

8:35 AM	Challenges of Building a Sampling Frame and Sampling in a National Survey of Institutions Providing Child Care and Early Education Services
8:55 AM	Frame Development in Complex Organizations: Identifying the Respondents
9:15 AM	Modifying composite weighting when PPS samples have already been chosen.
9:35 AM	Overcoming Challenges in Frame Development: the National Survey of Residential Care Facilities

INV9 Using Administrative Data as an Alternative to Survey Data for Establishment Collections – a European Perspective	8:30 AM - 10:10 AM Ballroom West

Organizer(s): Peter Brodie, Office of National Statistics

Chair(s): Peter Brodie, Office of National Statistics

8:35 AM	Methods for using administrative data to estimate survey variables not directly available from administrative sources
9:00 AM	Checking the Usefulness and Initial Quality of Administrative Data
9:25 AM	Using incomplete VAT-data for turnover estimates in Europe

Discussant(s): Mathew Page, Statistics NZ

| **C17 Gaining Survey Participation: Theoretical and Empirical Insights** | 10:40 AM - 12:20 PM
Drummond West |

Chair(s): Jill Lacey, U.S. Government Accountability Office

10:45 AM	The Response Process in Organizational Surveys - a Sociological Perspective
11:05 AM	Recruitment in Chain Affiliated Establishments: Experiences from the National Survey of Residential Care Facilities
11:25 AM	The Impact of a Person Level Incentive on Establishment Level Response and Prevalence Rates within Correctional Facilities
11:45 AM	Utilizing Phone Methodology to Improve Contact and Response of Establishments

| **C25 Issues in Surveys of Employees and Employers** | 10:40 AM - 12:20 PM
Drummond Centre |

Chair(s): Kim Aspinwall, RTI International (U.S.)

10:45 AM	Collecting Earnings Statistics using Payroll Software - Lessons from Ireland
11:05 AM	WITHDRAWN - Multiple Levels of Frame Development and Quality Control Used to Study Establishments
11:45 AM	Evaluating and monitoring employee turnover using benchmarks: A study of South African National government departments based on organisational size

| **INV10 Integrating Perspectives on Business Surveys: A Preview of the Book Designing and Conducting Business Surveys** | 10:40 AM - 12:20 PM
Ballroom West |

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

Chair(s): Cynthia Z.F. Clark, National Agricultural Statistics Service / USDA

10:45 AM	Unique considerations for conducting and producing statistics from business surveys: Introducing our book on Designing and Conducting Business Surveys
11:05 AM	Thinking Inside the Box: Business Behavior and Its Implications for the Survey Response Process
11:25 AM	An Integrated Quality Framework for Business Survey Evaluations
11:45 AM	An Integrated Framework for Designing a Business Survey Communication Strategy

Discussant(s): Paul Biemer, RTI International

| **INV11 Coordination of samples selected from overlapping populations** | 10:40 AM - 12:20 PM Drummond East |

Organizer(s): Lenka Mach, Statistics Canada; Ioana Schiopu-Kratina, Statistics Canada

Chair(s): Frank Potter, Mathematica Policy Research, Inc.

10:45 AM	Maximal, minimal sample co-ordination and associated bounds
11:10 AM	The Use of Sample Overlap Methods in the Consumer Price Index Area Redesign.
11:35 AM	Sampling Coordination of Business Surveys Conducted by INSEE
11:50 AM	Coordination of Samples Selected from Overlapping Populations – Discussion

Discussant(s): Paul Smith, Office for National Statistics, UK

| **INV12 The Potential Use of R in Establishment Surveys** | 10:40 AM - 12:20 PM Ballroom East |

Organizer(s): Martin Robert Brand, ONS (UK)

Chair(s): Martin Robert Brand, ONS (UK)

10:45 AM	Automated data editing and imputation with R at Statistics Netherlands
11:10 AM	Use of R in Business Surveys at the Italian National Institute of Statistics: Experiences and Perspectives
11:35 AM	Official statistics and survey methodology meets R: An overview of corresponding packages

Discussant(s): Ralf T. Munnich, University of Trier

IOL6 IOL6: Nonresponse Bias Analysis	10:40 AM - 12:20 PM Salon 6/7

Chair(s): David Haziza, Université de Montréal

10:45 AM	[Nonresponse Bias Analysis for Business Surveys - Guidance from the US Office of Management and Budget](#)
11:25 AM	[Nonresponse Bias Analysis for Business Surveys - Perspective from the US Census Bureau](#)

C11 Sampling Strategies	1:40 PM - 3:20 PM Salon 5

Chair(s): Ruey-Pyng Lu, U.S. Energy Information Administration

1:45 PM	[Efficient sample design for an establishment survey](#)
2:05 PM	[On Precision in Estimates of Change Over Time where Samples are Positively Coordinated by Permanent Random Numbers](#)
2:25 PM	[Comparing Estimation Methods in Product Surveys](#)
2:45 PM	[Government Funding Source as a Sample Frame of Early Career Doctorates Working in Establishments in All Sectors](#)

C26 New Technologies and Generalized systems	1:40 PM - 3:20 PM Salon 6/7

Chair(s): John Dixon, BLS

1:45 PM	[Using GIS to inform sample design for a retail establishment survey](#)
2:05 PM	[Applying Business Intelligence Technology to Statistical Processing and Analysis](#)
2:25 PM	[Developing a Generalized Processing System Across Organizational Silos](#)
2:45 PM	[Developing and implementing a generalised tool for data collection and micro editing – experiences from Statistics Sweden](#)

INV13 Managing Metadata for Establishment Surveys	1:40 PM - 3:20 PM Drummond Centre

Organizer(s): Daniel W Gillman, US Bureau of Labor Statistics

Chair(s): Daniel W Gillman, US Bureau of Labor Statistics

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1:45 PM	[The key role of metadata when building statistical production systems based on registers](#)
2:10 PM	[Operationalizing metadata frameworks - An ABS perspective](#)
2:35 PM	[Metadata Management over the Statistical Lifecycle at Statistics Canada](#)

Discussant(s): Sandra Cannon, Federal Reserve Board

| **INV14 Surveying Employees within and across Establishments: Challenges and Issues** | 1:40 PM - 3:20 PM
Drummond West |

Organizer(s): Naomi Dyer, Westat

Chair(s): Taylor Hudson Lewis, U.S. Office of Personnel Management

1:45 PM	[International Generalizability of Organizational Surveys](#)
2:10 PM	[Does the length of fielding period matter? Examining response scores of early versus late responders](#)
2:35 PM	[Evaluating Non-response Bias in Organizational Surveys Using Response Timing:](#)

Discussant(s): Fritz Scheuren, NORC at the University of Chicago

| **IOL4 IOL4: Web Questionnaires** | 1:40 PM - 3:20 PM
Ballroom West |

Chair(s): Bill Mochovak, Bureau of Labor Statistics

| 1:45 PM | [Tailoring the design of e-questionnaires to the response process: About audit trails and other methods](#) |
| 2:25 PM | [Survey Quality Evaluation for Business Surveys](#) |

| **TC4 Consumer Price Indices Survey Design Challenges** | 1:40 PM - 3:20 PM
Drummond East |

Organizer(s): Martin Beaulieu, Statistics Canada

Chair(s): Paul Smith, Office for National Statistics, UK

| 1:45 PM | [Methodological Challenges in the Development of a New Survey Design for the Canadian Consumer Price Index](#) |
| 2:05 PM | [Sampling and maintaining a fixed and representative basket](#) |

	of goods and services in a dynamic universe
2:25 PM	Sampling Schemes for Price Index Construction: A performance comparison across the COICOP food groups
2:45 PM	Variance Estimation for a Revised CPI

Discussant(s): Steven Paben, Bureau of Labor Statistics

TC5 Relationship Management of Very Large Establishments	1:40 PM - 3:20 PM Ballroom East

Organizer(s): Joseph Parsons, National Agricultural Statistics Service, US Department of Agriculture

Chair(s): Darcy Miller, USDA, National Agricultural Statistics Service

1:45 PM	Why should I? : Employing Social Psychology to Increase Cooperation from Large Survey Establishments
2:05 PM	Measuring the Impact of Business Profiling in the UK
2:25 PM	The treatment of large enterprise groups within Statistics Netherlands
2:45 PM	WITHDRAWN - Next steps in developing and maining relationships with large enterprises at the U.S. Census Bureau

Discussant(s): Danna Lee Moore, Associate Director, SESRC WSU

C19 Issues and Innovations in Electronic Data Collection	3:50 PM - 5:30 PM Salon 6/7

Chair(s): Grace O'Neill, U.S. Energy Information Administration

3:55 PM	Collecting data electronically from enterprises – searching for the right approach
4:15 PM	Online Data Collection in Agro-Food Sector
4:35 PM	Modal Unit-Response Rates and Strategy
4:55 PM	The Use of Electronic Reporting and Other Electronic Tools for Data Providers

C28 Designing and Redesigning Survey Processes	3:50 PM - 5:30 PM Salon 5

Chair(s): Peter Stoltz, Statistics Denmark

3:55 PM	Banff Automated Edit and Imputation on a Hog Survey

4:15 PM	WITHDRAWN - A General Algorithm for Multivariate Stratification
4:35 PM	[An upper bound for the relative bias of the design effect](#)
4:55 PM	WITHDRAWN - On Design Effects of Complex Sampling Strategy on ANOVA Mixed Effects Model

C5 Estimation Stratigies	3:50 PM - 5:30 PM Drummond Centre

Chair(s): Phillip Kott, RTI International

3:55 PM	[Estimates by Firm Size Using the CES Survey](#)
4:20 PM	[Extending the DAG Jackknife to Measure the Variance of an Estimated Total When Imputing for Item Nonresponse with a Survey-Weighted Prediction Model](#)
4:45 PM	[Complex Weighting and Disposition Coding in a Survey of Establishments](#)

C6 Job Vacancies	3:50 PM - 5:30 PM Drummond West

Chair(s): Charlotte Devor Oslund, Bureau of Labor Statistics

3:55 PM	[What about Skills Shortages? Evidence from the German Job Vacancy Survey](#)
4:20 PM	[What determines the success of filling vacancies? Evidence from the German Job Vacancy Survey](#)
4:45 PM	[Current Developments of Supply and Demand in the Labor Market in Israel](#)

INV15 Recent Developments in Assessing and Mitigating Nonresponse Bias	3:50 PM - 5:30 PM Ballroom West

Organizer(s): Joanna Fane Lineback, U.S. Census Bureau

Chair(s): Katherine (Jenny) Thompson, U.S. Census Bureau

3:55 PM	[Recent Developments in Assessing and Mitigating Nonresponse Bias](#)
4:20 PM	[Representativeness of response to establishment surveys and registers](#)
4:45 PM	[A Theoretical Framework for Adaptive Collection Designs](#)

Discussant(s): Roderick Little, U.S. Census Bureau/University of Michigan

INV16 Frame Challenges for Complex Populations	3:50 PM - 5:30 PM Ballroom East

Organizer(s): Pierre Daoust, Statistics Canada

Chair(s): Richard Lockhart, Simon Fraser University

3:55 PM	[Understanding Energy and Water Use in New Zealand Non-residential Buildings – an ad hoc survey](#)
4:20 PM	[Complex Methods for Special Populations: The U.S. Commercial Building Energy Consumption Survey](#)
4:45 PM	[Discovering the Universe: Measuring the Role of Finance Companies in the U.S. Economy](#)

Discussant(s): Karol Krotki, RTI

TC6 Evaluation of Statistical Disclosure (SDC) Methods for Application of New Methods	3:50 PM - 5:30 PM Drummond East

Organizer(s): Donsig Jang, Mathematica Policy Research

Chair(s): Donsig Jang, Mathematica Policy Research

3:55 PM	[Evaluation of Three Disclosure Limitation Models for the QCEW program](#)
4:15 PM	[Protecting both Establishment and Company Level Contributions in Statistical Tables](#)
4:35 PM	[Methods for Assessment of Incremental Disclosure Risks Incurred Through the Release of Special Tabulations](#)
4:55 PM	[Implementing Multiple Evaluation Techniques in Statistical Disclosure Control for Tabular Data](#)

Discussant(s): Jerry P Reiter, Duke University

Thu, Jun 14

Waksberg Address	8:30 AM - 9:50 AM Ballroom Centre

Chair(s): J.N.K. Rao, Distinguished Research Professor at Carelton University

[Survey Quality](#)

C10 Sampling Methods - Design and Allocation	10:20 AM - 12:00 PM Salon 6/7

10:25 AM	[Using a Provider Cluster Sampling Design to Study the Supply and Demand of Early Care and Education](#)
10:50 AM	[Optimal Allocation for Multidomain, Multivariate Case with different amount of auxiliary information](#)
11:15 AM	[Model-Aided Sampling: An Empirical Review](#)

C30 Metadata and Survey Management	10:20 AM - 12:00 PM Drummond Centre

Chair(s): Daniel W Gillman, US Bureau of Labor Statistics

10:25 AM	[Metadata for an Integrated Survey Framework: Integrated Business Statistics Program (IBSP)](#)
10:50 AM	[The Requirements of Secondary Analysis of Organizational Data](#)
11:15 AM	[Establishment Surveys in Uganda](#)

C8 Small Area Estimation	10:20 AM - 12:00 PM Drummond West

Chair(s): Karol Krotki, RTI

10:25 AM	[Evaluation of Methods for County-Level Estimation of Crop Harvested Area that Employ Mixed Models](#)
10:50 AM	[A Problem in Small Area Estimation: Cash Rental Rates](#)
11:15 AM	[Small area modelling under complex survey designs for business data](#)

INV17 Meeting the challenge to combine different survey data: the case of multinationals and foreign affiliates and the link between trade data and business registers	10:20 AM - 12:00 PM Ballroom West

Organizer(s): Jean Ritzen, Statistics Netherlands

Chair(s): Kees Vennix, Statistics Netherlands

| 10:25 AM | [The impact of globalisation on the system of statistical units](#) |
| 10:50 AM | [The EGR and the profiling: a complete vision of the](#) |

multinational enterprise groups, global actors of the economy

11:15 AM   Profiling large and complex MNEs

Discussant(s): Shirin A. Ahmed, U.S. Census Bureau

INV18 Measuring the Green Economy	10:20 AM - 12:00 PM
	Drummond East

Organizer(s): Richard Clayton, U.S. Bureau of Labor Statistics

Chair(s): Don Haughton, U.S. Bureau of Labor Statistics

10:25 AM   Measuring green jobs in the Netherlands

10:50 AM   Measuring green industry employment

11:15 AM   Counting Green Jobs: Developing the Green Technologies
                            and Practices Survey

Discussant(s): Joseph Kosler, USDA NASS Research and Development

TC7 Using Auxiliary Data to Predict and Manage Survey Nonresponse	10:20 AM - 12:00 PM
	Ballroom East

Organizer(s): Morgan Sue Earp, Bureau of Labor Statistics

Chair(s): Jeffrey Gonzalez, U.S. Bureau of Labor Statistics

10:25 AM   Adjusting for Non-response in the Occupational Employment
                            Statistics Survey

10:45 AM   Who is Responsible for the Bias? Using Proxy Data and Tree
                            Modeling to Identify Likely Nonrespondents and Reduce
                            Bias

11:05 AM   Voted "least likely to respond": Using classification trees to
                            identify likely non-respondents and proactively manage data
                            collection in NASS's Quarterly Agricultural Survey

Discussant(s): David Cantor, Westat

C20 Approaches to Improving Data Quality	1:20 PM - 3:00 PM
	Drummond East

Chair(s): Christopher S. Ellis, RTI International

1:25 PM   A Comprehensive Reassessment of Establishment Surveys

1:50 PM   Cognitive approach to studying performace in business
                           surveys

2:15 PM	Adding New Items and New Respondents: Findings from the NSF-NIH Survey of Graduate Students and Postdoctorates in Science and Engineering
2:15 PM	Third Party Audits –Does this Gold Standard Hold up for Assessing Measurement Error in a Regulated Industry?

C22 Selective Editing and Detecting Outliers	1:20 PM - 3:00 PM Salon 6/7

Chair(s): Katherine (Jenny) Thompson, U.S. Census Bureau

1:25 PM	Multivariate selective editing based on the use of administrative data: an application to the Italian business survey on ICT usage and e-commerce
1:45 PM	Application of Selective Editing Techniques: Evaluation
2:05 PM	Metrics for Selective Editing
2:25 PM	An Adaptive Approach to Hidiroglou-Berthelot Outlier Detection

C3 Variance Estimation	1:20 PM - 3:00 PM Drummond West

Chair(s): Victoria McNerney Scott, RTI International

1:25 PM	Anomalies under Jackknife Variance Estimation Incorporating Rao-Shao Adjustment in the Medical Expenditure Panel Survey Insurance Component
1:50 PM	Incorporating the Sampling Variability from an Employee Perception Survey into the Ranking Process of U.S. Government Agencies
2:15 PM	Developing Calibration Weights and Standard-Error Estimates for a Survey of Drug-Related Emergency-Room Visits

INV19 Using Administrative Data as an Alternative to Survey Data for Establishment Collections	1:20 PM - 3:00 PM Ballroom East

Organizer(s): Ron John McKenzie, Statistics New Zealand

Chair(s): Clare Ward, Statistics New Zealand

1:25 PM	Maximising the use of administrative data in sub-annual

business collections

1:50 PM	[First assessment of the combined use of administrative and survey data in the new system of French structural business statistics](#)
2:15 PM	[Using administrative taxation data to improve sample design and estimation - An ABS perspective](#)

Discussant(s): Peter Brodie, Office of National Statistics

INV20 Response burden and motivation in official business surveys. Can we improve businesses response behavior by increasing the perceived benefits of official statistics?	1:20 PM - 3:00 PM Ballroom West

Organizer(s): Deirdre Giesen, Statistics Netherlands

Chair(s): Rudi Seljak, Statistical Office of the Republic of Slovenia

1:25 PM	[Exploring Causes and Effects of Perceived Response Burden](#)
1:50 PM	[Sources of Motivation in Business Surveys](#)
2:15 PM	[Businesses as users of official statistics](#)

Discussant(s): Jacqui Yvette Jones, UK Office for National Statistics

Closing Panel Session: Doing More With Less	3:30 PM - 5:00 PM Ballroom West

Chair(s): John Kovar, Statistics Canada

3:35 PM	[Doing More With Less](#)