



## Tuesday

### IPM 12 Hall 5B Statistics in Biodiversity

#### BS

- 09:00 Organiser and chair: *Miguel Nakamura*
- 09:05 [Site occupancy models and inference using single and multiple surveys](#)  
*Subhash Lele*
- 09:45 [Statistical Estimation of Biodiversity Indices](#)  
*Anne Chao*
- 10:25 Discussant: *Abdel El-Shaarawi*
- 11:05 Open discussion

### IPM 24 Hall 2A Quality Control and Assurance of Administration Data used in Statistics Production

#### IAOS

- 09:00 Organiser and chair: *Hikka Vihavainen*
- 09:05 [Framework of Quality Assurance for Administrative Data Sources](#)  
*Piet Daas, Judit Arends-Tóth, Barry Schouten, Léander Kuijvenhoven*
- 09:35 [Quality Assurance and Control of the Finnish Population Register System Data for the Purposes of Statistics Production](#)  
*Riitta Harala*



- 10:05 [Managing the Quality of Administrative Data in the Production of Economic Statistics](#)  
*Ron Mckenzie*
- 10:35 Discussant: *Steven Vale*
- 11:05 Open discussion

**IPM 36**

**Hall 2D Random projection for multimedia retrieval**

**IASC**

- 09:00 Organiser and chair: *Jean-Hughes Chauchat*
- 09:05 [Stable Random Projections](#)  
*Ping Li*
- 09:35 [On the Performance of Clustering in Hilbert Spaces](#)  
*G rard Biau, Luc Devroye, Gabor Lugosi*
- 10:05 [How many random projections suffice to determine a probability distribution?](#)  
*Juan A. Cuesta-Albertos*
- 10:35 Discussant: *Annie Morin*
- 11:05 Open discussion



**IPM 38**      **Hall 2C**      **Educating the public on how to use official statistics**

**IASE, Local Hosts**

- 09:00 Organiser and chair: *Peter Wingfield-Digby*
- 09:05 [Making Statistics attractive through Partnerships with the Media](#)  
*Ben Paul Mungyereza*
- 09:30 [Improving Use of Official Statistics - How Marketing and IT Help](#)  
*Chun-Keung, Leo Yu*
- 09:55 [Making official data relevant to students: Statistics Canada's Education Outreach Programme](#)  
*Mary Townsend, Art Ridgeway*
- 10:20 Discussant: *Davaasuren Chultemjamts*
- 10:55 Discussant: *Hilary Joffe*
- 11:10 Open discussion

**IPM 59**      **Hall 2BH**      **Dissemination of Survey Results to Public**

**IASS**

- 09:00 Organiser and chair: *Tommy Wright*
- 09:05 [Dissemination of Survey Data at the U.S. Bureau of the Census](#)  
*Thomas Moore*



- 09:35 [Innovative Technology to Improve Quality and Enhance Stakeholder Satisfaction](#)  
*Ashwell Jenneker, Nireen Naidoo*
- 10:05 [Statistical dissemination and Trust](#)  
*Kees Zeelenberg, Steven de Bie*
- 10:35 Discussant: David Dolson
- 11:05 Open discussion

**IPM 75**

**Hall  
4C**

**Inference and prediction in competing risks and multi-state models**

**GTC, LS**

- 09:00 Organiser and chair: *Hein Putter*
- 09:05 [Analysing the impact of intermediate events in multistate models](#)  
*Martin Schumacher, Jan Beyersmann*
- 09:35 [Practical aspects of multistate modelling: Representation, timescales and prediction](#)  
*Bendix Carstensen*
- 10:05 [Inference and prediction in multi-state models: The additive approach](#)  
*Ornulf Borgan*
- 10:35 Discussant: Niels Keiding
- 11:05 Open discussion



**IPM 103**

**Hall 1A President's invited papers meeting**

**ISI**

- 09:00 Organiser and chair: *Denise Lievesley*
- 09:05 The evolution of controlled intervention studies: An international achievement  
*Professor Sir Iain Chalmers*
- 09:45 Untutored speculations on the subtle role of perspective in statistical endeavour  
*Dr Mark Orkin*
- 10:25 Modern trends in data mining  
*Professor Trevor Hastie*
- 10:45 Open discussion

**STCPM 5**

**Hall 4B Statistical methods applied in GIS and remote sensing**

Organiser: *Pravesh Debba*

- 09:00 Chair: Venkata Seshachala Sarma Yadavalli
- 09:05 [Analysing GPS tracking data of animal movements in the Kruger National Park](#)  
*Victoria Goodall, Paul Fatti, Norman Owen-Smith*
- 09:25 [Evaluation of discrimination measures to characterize spectrally similar leaves of African Savannah trees](#)  
*Nontembeko Duden, Pravesh Debba, Moses Cho, Renaud Mathieu*

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- 09:45 [An optimal spatial sampling scheme to characterize mine tailings](#)  
*Pravesh Debba, Emmanuel John M. Carranza, Alfred Stein, Freek D. Van Der Meer*
- 10:05 [Modelling multivariate spatially correlated frailty effects using Bayesian survival methods](#)  
*Samuel Manda*
- 10:25 [The use of Sample Statistics, Earth Observation and GIS in the South African Crop Estimation System](#)  
*Terry Newby, Fanie Ferreira, Eugene Du Preez, Wiltrud Du Randt*
- 10:45 Discussant: Paul Fatti
- 11:05 Open discussion

**STCPM 19**    **Hall 3A**    **Global Adult Tobacco Survey (GATS) - National Household Surveys on Adult Tobacco Use across the World: Coverage and Comparability**

Organiser: *Krishna Palipudi*

- 09:00 Chair TBA
- 09:05 [GATS Standard Protocol](#)  
*Krishna Palipudi*
- 09:30 [GATS Egypt: Implementation and Challenges](#)  
*Awatef Hussein*
- 09:55 [GATS Brazil: Implementation and Challenges](#)  
*Eduardo Pereira Nunes, Elizabeth Hypolito*



10:20 [GATS Turkey: Implementation and Challenges](#)

*Enver Tasti*

10:55 Discussant: Charles Warren

11:10 Open discussion

**STCPM 28**

**Hall  
1B**

**Measuring bank services: Further developments**

09:00 Organiser and chair: *Steven Keuning*

09:05 [Risk and Implicit Output of Bank Services](#)

*J. Christina Wang*

09:20 [Treatment of risks in the estimation of FISIM](#)

*Satoru Hagino*

09:35 [Bank services: Some reflections on the treatment of default risk and term premium](#)

*Antonio Colangelo, Reimund Mink*

09:50 [Measuring the services of commercial banks in the NIPAs](#)

*Dennis Fixler, Steve Landefeld, Brent Moulton*

10:05 The measurement of financial services in the national accounts and the financial crisis

*Michael Davies*

10:20 [A risk-adjusted FISIM: practical issues in price and volume measurement of financial services in the national accounts](#)

*Peter van de Ven, Wolfgang Eichmann*



10:35 Discussant: Adelheid Burgi-Schmelz

10:50 Open discussion

**STCPM 38**    **Hall 4C**    **Agriculture and Food Security: Developments in Africa**

09:00 *Sheryl Hendricks*

09:05 [Research on Development Targets of Modern Agriculture of Fujian Province](#)

*Yingxia Lin, Chunshan Ye*

09:35 [The Development of the Agricultural Sector Strategic Plan for Statistics: A Data Collection Plan for Agricultural Statistics in Uganda](#)

*ESK Muwanga-Zake*

09:55 [Financing of Agriculture and Agricultural Growth: Case of Burkina Faso](#)

*Dramane Bako*

10:20 [The Impact of Training of Farmers on the Agriculture Productivity in Mali](#)

*Ankouvi Mawoudoudji Nayo*

10:45 [The Base of Operations: Estimating New Zealand's productive capital stock of non-agricultural land](#)

*Jodi York*

11:10 Open discussion





**STCPM 46**    **Hall 2C**    **Statistical techniques in Disease/Mortality prevalence in Sub-Saharan African countries**

09:00 Chair: *N Kandala*

09:05 [Socio-demographic determinants of anaemia among women and children in Uganda in 2006: A multilevel analysis.](#)

*Ngianga Il Kandala*

09:30 [Macro Determinants of Spatial Variation of Childhood Mortality in Malawi using Flexible Bayesian Gaussian Mixtures](#)

*Samuel Manda*

09:55 Analysis of Childhood Morbidity with Geoaddivitive Probit and Latent Variable Model: A case study for Egypt

*Khaled Khatab, Ludwig Fahrmeir*

10:20 [Modeling HIV-1 disease progression in infants using multi-state models](#)

*Thaddeus Egondi, John-Stewart Grace*

10:40 [Comparative study between parametric and non-parametric approaches in simulated data for estimating incidence of HIV](#)

*Georges Parfait Djimefo Kapen, Henri GWET, Jean Christophe THALABARD, Pouillot Régis*

11:00 Open Discussion



**STCPM 47**     **Hall 2E**     **Statistics in Malaria**

Organiser: *Francesca Little*

09:00 Chair: June Juritz

09:05 [Development of optimal designs for population pharmacokinetic studies of artesunate](#)  
*Kris Jamsen, Julie Simpson, Joel Tarning, Niklas Lindegardh*

09:30 [Statistical methods for the analysis of gametocytemia in patients with malaria](#)  
*Francesca Little, Greg Distiller, Dominique Katshunga*

09:55 [Nonlinear mixed effect modeling of drug concentration - time curves when used as prophylactic treatment against malaria in pregnant women.](#)  
*Katya Mauff, Francesca Little, Karen Barnes, Myaing Nyunt*

10:20 [Measures of artemisinin efficacy](#)  
*Sue J Lee, Kasia Stepniewska, Nicholas J White*

10:55 [A Simulation model of Anti-malarial Drug Resistance](#)  
*Sheetal Prakash Silal, Francesca Little*

11:10 Open discussion

**STCPM 90**     **Hall 6A**     **Theoretical aspects of Small area estimation**

09:00 *Ray Chambers*

09:05 [Sample sizes for Small Area Estimation under Stratified SRS Design](#)  
*Wilford Molefe*



- 09:35 [On sample allocation for planned small areas](#)  
*Ghulam Hussain Choudhry, J N K Rao*
- 10:05 [Small Area Estimation using Survey Re-weighting and Lorenz Parameterizations](#)  
*Arturo Martinez*
- 10:35 [A Small Area Estimation Based on Relative Error](#)  
*Hee-Jin Hwang, Sang Eun Lee, Hwa-Young Lee, Key-Il Shin*
- 11:05 Open Discussion

**CPM 22**

**MR  
11A** **Health statistics**

Chair: *Jeffry Tejada*

- 09:00 [Developing 'Rational Service Areas' to Assess the Adequacy of Primary Care Capacity](#)  
*Jean Moore*
- 09:20 [Reproductive health and Quality of life - Environmental linkages](#)  
*Subhrmanya Nairy K*
- 09:40 [Women's Employment Status and Postnatal Care Utilisation in Ghana](#)  
*Nicholas Cofie*
- 10:00 [An Approach to Understand the Determinants of Unwanted Births in India - A Case Control Study](#)  
*Priyanka Dixit*
- 10:20 [Tobacco Use during Pregnancy: An Investigation from a National Household Survey](#)  
*Krishna Mohan Palipudi*

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**B**



10:40 [User needs for statistical information systems](#)

*Mauro Scanu*

**CPM 24**

**MR  
11C**

**Health workforce inequalities**

Chair: *Gwo Dong Lin*

09:00 [Health workforce inequalities problems in public health of the Republic of Uzbekistan, way and measures of their decision](#)

*Nodirjon Tursunov*

09:20 [Health workforce inequality in post conflict situation 'a case of Northern Uganda'](#)

*Wanglobo Dickson*

09:40 [Occupational accidents among Brazilian primary health care workers: sex and occupation inequalities](#)

*Leila Garcia*

10:00 [Principal Components Analysis and cluster analysis to characterise workforce attrition for policy development](#)

*Tana Wuliji*

10:20 [Bed Occupancy and Man Power Statistics, A Case Study at Tamale Teaching Hospital](#)

*David Ndita Atiah*

10:40 [Factors influence on happiness of Human resource Boromrajachonani Bangkok College of Nursing, Thailand](#)

*Malee Geounuppakul*



**CPM 27**

**Hall  
5CD**

## **Utilisation of national statistics systems**

Chair: *Hugo Mael Hernandez Trevethan*

09:00 **Les Defis de L'utilisation des Statistiques Officielles en Republique Democratique du Congo**

*Tumwaka Madungu*

09:20 **Caractérisation du secteur informel à partir des enquêtes 123 des Etudes Ecoloc: le cas de Koudougou**

*Kouassi Hugues Kouadio*

09:40 **Les Telecommunications au Benin: Bilan et Perspectives**

*Landry Zolikpo*

10:00 **Modélisation de l'offre des produits céréaliers au BURKINA FASO à partir de l'Enquête Permanente Agricole 2006-2007**

*Koursangama Adama*

10:20 **Les défis du système statistique national au Burkina Faso**

*Lonkila Moussa Zan*

10:40 **La Representativite des Femmes dans les Organes Producteurs et Utilisateurs des Statistiques en Republique Democratique du Congo**

*Mbelu Elisabeth Kayiba*



**CPM 97**

**Hall  
6A**

**Multivariate methods**

Chair: *Rugambwa Samson*

09:00 Confidence regions in three-dimensional shape analysis

*Simon Preston*

09:20 On definitions of mean reflection shape

*Andrew Wood*

09:40 A Comparative Study for a Bandwidth Matrix Choice for Bivariate Kernel Density Estimates

*Ivanka Horova*

10:00 Detecting spurious jumps in high frequency data

*Pierre Bajgrowicz*

10:20 Mixtures of Weighted Distance-Based Models for Ranking Data

*Paul Lee*

**CPM 103**

**MR  
12C**

**Issues of risk**

Chair: *John Wiclif Odhiambo*

09:00 A Pearson Curve to Approximate the Age Distribution of HIV/AIDS Infection in Botswana

*Parameswara Krishnan*

Programme  
**Tuesday**

**B**



09:20 Indirect Estimation of Operational Risk Indicators for SMEs via Data Mining from Basel II Point of View

*Ali Serhan Koyuncugil*

09:40 Targeting households at nutritional risk: a finite mixture model

*Caillavet France*

10:00 Characteristics of self-rated health indicators examined by nation-wide sample surveys in Japan

*Kazue Yamaoka*

10:20 A Study on Risk Factors Associated with Mental Illness in Eastern Delhi, India: A Logistic Regression Approach

*Chandra Bhushan Tripathi*

10:40 Laboratory and Non-laboratory Based Risk Prediction Models for Secondary Prevention of Cardiovascular Disease: The LIPID Study

*Jisheng Cui*

**CPM 105**

**MR  
22A**

**Economics**

Chair: *Gunter Schaefer*

09:00 Duration dependence and frailties: parametric versus nonparametric estimators

*Tatyana Krivobokova*

09:20 Analysing income distributions in the case of grouped data: The South African Census 2001

*Gretel Crafford*



- 09:40 [Analysis of the Determinants of the Informal Sector Production Units Profitability in Burkina Faso: A Study Case from Ouagadougou](#)  
*Kinda Angele Wendkouni*
- 10:00 [Informal sector a manifestation of disorder: A resolution strategy](#)  
*Guy Nguembu Tchuenta*
- 10:20 [Interpreting the huge gap in the labour productivity between developed and developing countries statistically](#)  
*Saleh Al Kafri*
- 10:40 [The challenges of industry and occupation coding in household labour market surveys \(HLMS\)](#)  
*Tebogo Errol Hlahla*

**CPM 108**

**MR  
12B**

**Demographic themes**

Chair: *Yehenew Getachew*

- 09:00 [Population Projections for Rapidly Changing Korea](#)  
*Kyung Ae Park*
- 09:20 [The socio-economic status of the South African elderly population: 2001-2007](#)  
*Margaret Africa*
- 09:40 [Study on Statistics of Minority Nationality Population in China](#)  
*Sun Xueguang*





10:00 [Statistical Human Resource Development: The Case of Bukidnon State University, Philippines](#)

*Joy Mirasol*

10:20 [How real are synthetic populations?](#)

*Juliet Nakamya*

**CPM 110**

**MR  
22B**

**Issues in Official Statistics**

Chair: *Mustafa Khawaja*

09:00 [Capacity Building in Official Statistics: The Challenges of Official Statisticians in South Africa](#)

*Ben Marchel Bosch*

09:20 [Census microdata processing via Internet, using the REDATAMWeb Server](#)

*Alejandra Silva*

09:40 [The Causes and Consequences of the “Perceived” Non-Availability of Economic Statistics for Local Economic Development in South Africa: A KwaZulu-Natal Case Study](#)

*Clive Coetzee*

10:00 [Comparative Analysis of different sources of Revenue in local government budgets: a case study of Bugiri district in Uganda](#)

*Racheal Vanessa Nakawooya*

10:20 [Statistics in Diversity management: Ethical Issues](#)

*Sevak Karamyan*



10:40 [Regional Integration – A Convergence Criteria Scrutiny: The Case of WAEMU](#)  
*William Jiofack Azébazé*

**IPM 29**      **Hall 5B**      **Statistical Methods for Non Linear Latent Variable Models**

**IASC**

Organiser: *Salvatore Ingrassia*

13:00 Chair: *Gilbert Saporta*

13:05 [A joint use of PLS Regression and PLS Path Modelling for a data analysis approach to latent variable modelling](#)

*Vincenzo Esposito Vinzi*

13:40 [Methods for approximate inference for latent variable models](#)

*Donald Michael Titterington*

14:15 Discussant: *Gilbert Saporta*

14:40 Rejoinder: *Vinzi Titterington*

14:55 Open discussion



**IPM 43**

**Hall 6B**   **Research on Informal Inferential Reasoning**

**IASE**

Organiser: *Katie Makar*

13:00 Chair: *John Harraway*

13:05 [Cognitive Development of Informal Inferential Reasoning](#)

*Chris Reading*

13:35 [Insights into Informal Inferential Reasoning in the Primary Classroom](#)

*Aisling Leavy*

14:05 [Informal Inferential Reasoning About Large Scientific Data Sets](#)

*James K L Hammerman*

14:35 Discussant: *Jim Ridgeway*

14:55 Open discussion

**IPM 58**

**Hall 2BH**   **Issues In Price Index Methodology and Measurement**

**IASS**

13:00 **Organiser and chair: Sylvie Gauthier**

13:05 [Variance Estimation for Price and Volume Indices in the UK Office for National Statistics](#)

*John Wood*

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**Tuesday**

**B**



13:35 [Alternative Measures of U.S. Consumer Prices](#)

*Robert Parker*

14:05 [A general rescaling bootstrap procedure with an application to Price Index surveys using Poisson or sequential Poisson sampling](#)

*Zdenek Patak*

14:35 Discussant: *Bert Balk*

15:05 Open discussion

**IPM 67**

**Hall 2A Models of modern data and metadata systems**

**GTC, IFC, IASS**

13:00 Organiser and chair: *Steven Keuning*

13:05 [Innovative Technologies For Statistical Production: Statistics South Africa Experiences](#)

*Matile Malimabe, Ashwell Jenneker*

13:20 [A Model Data Producer: The Importance of Sound Metadata Management – Botswana’s Case](#)

*Sabata Legwaila*

13:35 [Metadata at Statistics Canada: Implementation opportunities and challenges](#)

*Michel Cloutier, Alice Born*

13:50 [SDMX as the logical foundation of the data and metadata model at the ECB](#)

*Gérard Salou, Xavier Sosnovsky*



14:05 [Integrative analysis of cancer genomics data](#)

*Shuangge Ma*

14:20 [Documenting the Research Life Cycle: One Data Model, Many Products](#)

*Mary Vardigan, Peter Granda, Sue Ellen Hansen, Sanda Ionescu*

14:35 Discussant: Lars Thygesen

14:45 Open discussion

**IPM 73**

**Hall  
2E** **Relative survival**

**GTC, LS, BS**

13:00 Organiser and chair: *Janez Stare*

13:05 [Relative Survival: understanding the concept and promoting its utilization](#)

*Jacques Esteve*

13:35 [Regression spline-based flexible relative survival model: estimation, inference and validation](#)

*Michal Abrahamowicz, Amel Mahboubi, Catherine Quantin*

14:05 [Goodness of Fit in Relative Survival Regression](#)

*Maja Pohar Perme, Janez Stare, Robin Henderson*

14:35 Open discussion



**IPM 101**      **Hall 1A**      **Jan Tinbergen and Cochran-Hansen Awards for best papers by Young Statisticians**

**ISI**

- 13:00 Organiser and chair: *Denise Lievesley*
- 13:05 [Estimating the returns to education in Cameroon informal sector](#)  
*Pierre Joubert, Nguetse Tegoum (Jan Tinbergen Award Winner)*
- 13:35 [Problem of estimation with balanced loss function in elliptical models](#)  
*Mohammad Arashi (Jan Tinbergen Award Winner)*
- 14:05 [Some results on lower variance bound: a unified approach](#)  
*Sudheesh Kattumannil (Jan Tinbergen Award Winner)*
- 14:35 [Small area estimation under transformation to linearity](#)  
*Hukum Chandra (Cochran-Hansen Prize Winner)*
- 15:05 Open discussion

**STCPM 13**      **Hall 4C**      **Integrity: a Fundamental Principle in Producing and Disseminating Statistics**

- 13:00 Organiser and chair: *Marie Bohatá*
- 13:05 [The importance of Code of Practices to enhance Staff's integrity](#)  
*Maria João Zilhão*
- 13:25 [Strengthening integrity in the UK's decentralised statistical system](#)  
*Richard Laux, Marie Bohata*



- 13:45 Independence in Official Statistics – the impact of the European Code of Practice with regard to credibility of the European Statistical System  
*Margit Epler*
- 14:05 The impact of the ES Code of practice for a National statistical system  
*Marina Gandolfo*
- 14:25 Integrity in Statistics - A Caribbean Perspective  
*Sonia Maureen Jackson*
- 14:45 Discussant: *TBA*
- 15:05 Open discussion

**STCPM 26**

**Hall 2D Advances in the Collection of Disability Statistics**

- 13:00 Organiser and chair: *Jennifer Madans*
- 13:05 Development of an Internationally Comparable Disability Measure for Censuses: Challenges and Opportunities  
*Mitchell Loeb, Jennifer Madans*
- 13:35 Joint Pilot Test for Disability for 2010 Census Round in Latin three American Countries  
*Alicia Bercovich, Oscar Barrios*
- 14:05 Recent Advances in Disability Statistics Measurement in Uganda  
*Helen Nviiri*
- 14:35 The Tanzanian survey on disability – methodology and overview of results  
*Irenius Joseph Ruyobya, Margie Schneider*



15:05 Open discussion

**STCPM 31**   **Hall 5C**   **The National Strategy Development for Statistics (NSDS) Process in Africa**

Organiser: *Mary Strode*

13:00 Chair: Phillippe Gafishi

13:05 The Ethiopian National Strategy for the Development of Statistics  
*Yakob Mudesir*

13:25 [Developing a blueprint for implementing a National Statistics System](#)  
*Sieraag De Klerk*

13:45 [Strategie Nationale de Developpement de la Statistique du Senegal](#)  
*Mamadou Falou Mbengue*

14:05 [A system wide approach for supporting the development of official statistics in Africa](#)  
*Kim Bradford Smith, Heidi Grainger, Ailie Clarkson, Frances Heeks*

14:25 [Models of Statistical Governance of Official Statistics](#)  
*Philippe Gafishi, Mary Strode, Ian Macauslan*

14:45 Discussant: Christophe Duhamel

15:05 Open discussion





**STCPM 51**     **Hall 3A**     **Globalisation and its effect on economic statistics**

Organiser: *Robin Lynch*

13:00 Chair: Peter Van de Ven

13:05 [European Union integration: cross border payments and their impact on balance of payment statistics](#)

*Helena Figueira, Mushtaq Hussain, Luca Pappalardo*

13:30 [Globalization and multinationals – goods for processing](#)

*Mary Townsend, Art Ridgeway*

13:55 [Measurement challenges of Globalisation](#)

*Steve Landefeld, Shaunda Villones*

14:20 [Globalisation - Multinationals and their effect on National Accounts](#)

*Michael Connolly*

14:55 Discussant: Enrico Giovannini

15:10 Open discussion

**STCPM 55**     **Hall 6A**     **Water Resource Management Issues in Africa**

Organiser: *James Cochran*

13:00 Chair: *TBA*

13:05 [Operations Research Practice for Africa \(ORPA\) - An International Operations Research/Management Science Initiative](#)

*James Cochran*



13:45 TBA

*Fritz Scheuren*

14:25 **Modelling demand for basic services in South Africa: the case of household dynamics and water connection**

*Remy Nnadozi*

15:05 Open discussion

**STCPM 61 MR11 National Accounts**  
**C**

13:00 *Chair: TBA*

13:05 **Construction of Economy-wide Material Flow Accounts with Hidden Flows for Finland**

*Jukka Hoffren*

13:20 **A Multivariate Method For Classifying Economic Institution (Institutional National Account Classification)**

*Hani AlAhmed*

13:35 **Assessment and Analysis of China's Manufacturing International Competitiveness: A Comparative Study of 40 Economies**

*Siliang Ji, Feng ZHEN*

13:50 **Analysis of the impact of the introduction of the NACE Rev.2 in the groupings of the economic activities used in National Accounts**

*Rosalba Filippello, Augusto Puggioni*



- 14:05 [The Structure of the Eastern Cape Economy: a SAM based Analysis](#)  
*Cabanga Moyo*
- 14:20 [Research of the Index Series in the National Accounts](#)  
*Can Yang*
- 14:30 [Research of Sectors Classification Issues on National Accounts](#)  
*Qiubi Sun*
- 14:55 Open discussion

**STCPM 88**    **Hall 2D**    **Modeling energy demands**

- 13:00 *Carol Blumberg*
- 13:05 [Modeling and Forecasting Short-term Electricity Demand in South Africa](#)  
*Riona Arjoon*
- 13:35 [Forecasting Electricity Consumption in Ferrochrome Sector](#)  
*Livhuwani Nedzingahe*
- 14:05 [The relationship between Price of electricity and Consumption of electricity in South Africa between the years 1978-2008](#)  
*Bridget Mmusi*
- 14:35 [Estimation of Monthly Ethanol Consumption in the U.S.](#)  
*Carol Joyce Blumberg, Michael R Conner, Susan Lord*
- 15:05 Open discussion



**STCPM 93**

**Hall  
1B**

## **The Role of Statistics Councils in the National Statistics System**

**ISI**

Organiser: *Howard Gabriels*

13:00 Chair: *Edwardo Nunes*

13:10 Report back on the satellite meeting on the Role of Statistics Councils in the National Statistics System

*Howard Gabriels*

14:10 **Discussant: Jean-Louis Bodin**

14:50 **Open discussion**

**CPM 25**

**Hall  
2C**

## **Health workforce issues**

Chair: *Thomas Wollnik*

13:00 Inequality in Distribution of Continuing Professional Education Opportunities among Health Workers in Ghana

*Hirotsugu Aiga Chushi Kuroiwa*

13:20 **The Health Workforce Inadequacy in Georgia: the need to foster professional interaction**

*Irine Zarnadze*

13:40 **Dynamic and efficient database structures for health workforce data in developing countries**

*Douladel Patrice Willie*

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**B**



14:20 [Measuring regional health workforce inequalities](#)

*Christian Lorenz*

14:40 [How many, who and where? – Using multiple sources of information to estimate the health workforce in India](#)

*Krishna Rao*

**CPM 40**

**MR  
11A**

**Demography - child health**

Chair: *Michel Mouyelo-Katoula*

13:00 [An Analysis of Under-Five Nutritional Status in Lesotho: The role of parity order and other socio-demographic characteristics](#)

*Sasha Frade*

13:20 [Factors associated with the survival status of last-born children aged under-one](#)

*Ntebaleng Chobokoane*

13:40 [The Impact of Child Support Grant on childhood well-being](#)

*Nompumelelo Nzimande*

14:00 [Orphans and vulnerable children \(OVC\) in Uganda; are orphans more malnourished?](#)

*Yovani Moses Lubaale*

14:20 [Exploring a link between child labour and scholastic progression/retardation statistics](#)

*James Serwadda-Luwaga*

14:40 [Living conditions of orphans in South Africa](#)

*Lesego Masebe*



**CPM 46**      **MR**      **Development issues**  
**11B**

Chair: *Richard Alldritt*

13:00 **Tracking Progress Towards Statistical Capacity Building Efforts: The African Statistical Development Index**

*Dimitri Sanga*

13:20 **Developing a Framework and Indicators to Measure Sustainable Development: the Statistics New Zealand approach**

*Rosie Fyfe*

13:40 **Towards Key Sustainable Development Indicators: the Swiss Approach**

*Anne Boesch*

14:00 **How to give value added to official statistics – specific experiences of a developing country**

*Blagica Novkovska*

14:20 **Planning without Data and the Political Dimensions of Official Statistics in Developing Countries: A case study of Imo State in Nigeria**

*Jaja Oparaku*

14:40 **New trends in sustainability indicators - evaluation of environmental, social and governance performance**

*Jiri Hrebicek*



**CPM 93**

**MR** **Multivariate data**  
**22B**

Chair: *Walter Radermacher*

13:00 [Canonical Correlation Analysis of Rural Life Insurance Demand](#)

*Yang Liu*

13:20 [A Multivariate Change Point Model for Change in Mean vector and/or Covariance Structure. Application to Detection of Isolated Systolic Hypertension](#)

*Akim Adekpedjou*

13:40 [Principal components for multivariate functional data](#)

*Ana Justel*

14:00 [Fuzzy Principal Component Analysis for Interval-Valued Data Considering Classification Structure of Objects in High Dimensional Space](#)

*Mika Sato-Ilic*

14:20 [Multivariate discrete models for HIV, TB and STDs co-infection](#)

*Mulalo Annah Managa*

14:40 [Statistical Approaches for Classifying and Defining Areas in South Africa as 'urban' or 'rural'](#)

*Sharthi Laldaparsad*



CPM 96

MR  
12C

## Health and medicine

Chair: *Willem Saris*

- 13:00 [In Search of Well-Maintained Essential Human Resources for Health Data in Indonesia](#)  
*Mary Siti Maryam*
- 13:20 The cause of Multi drug Resistant (MDR) TB in South Africa  
*Thembalihle Ndlovu*
- 13:40 [Extensions to some Multidimensional Ranking Techniques](#)  
*Ashish Das*
- 14:00 [Organization, quality and e-Health in EU Countries: a comparison](#)  
*Vincenzo Lo Iacono*
- 14:20 [An Extended Age Period Cohort Model for Analyzing Breast Cancer Deaths Including Two Types of Multiplicative Terms Based on Underlying Theories of Cancer Biology](#)  
*Nobutane Hanayama*
- 14:40 [The Integrated Health Interview Survey: A New Source of Integrated Health Information on U.S. AIDS Knowledge, Attitudes, and Testing](#)  
*Miriam King*





CPM 112

MR  
12B

Finance

Chair: *Filomena Maggino*

13:00 [Variance estimation of the Quintile Share Ratio](#)

*Matti Langel*

13:20 [Dynamic micro-estimation of individual behaviours facing changes in population parameters: case study of income distributions and applications](#)

*Carmen Anido*

13:40 [A Dissimilarity Approach to Detecting Out-of-Language Documents](#)

*Kristin Yancey*

14:00 [Empirical Likelihood Ratio Test for Testing Mean of a Normal Distribution](#)

*Aruna Rao*

14:20 [Modified Time Series Paired Comparisons Model applied to exchange rate data](#)

*Morné Sjölander*

14:40 [Modelling the Convergence of Long-Term Bond Yields in the European Monetary Union](#)

*Giuliana Passamani*

Programme  
Tuesday

**B**



**CPM 113**

**MR  
12B**

**Statistics for public good**

Chair: *Filipa Lima*

13:00 **Simulation of the impact of the increase in food commodity prices on households in Burkina Faso**

*Rakissiwindè Bationo*

13:20 **Some Interesting Patterns in the Adverse Event Reporting Systems of the food and Drug Administration**

*Uttam Sarkar*

13:40 **Performance Monitoring Plan (PMP) and Strategic Objective (SO) as tools for Improving Quality Service Delivery in Organisations**

*Ndung'u William*

14:00 **The Modeling of the Turkish Catastrophe Insurance Pool data between 2000-2008 by using Extreme Value Theory**

*Berna Burcak Basbug Erkan*

14:20 **Measuring Human Development through Directional Distance Formulation of Data Envelopment Analysis**

*Udaya Shetty*

14:40 **Paradigm Shift in Human Resource Induction in Public Systems of an Indian State**

*Shiv Chandra Mathur*



**IPM 3**

**Hall 6B Inference under Qualitative Restrictions**

**BS**

15:30 Organiser and chair: *Holger Dette*

15:35 [Improving Point and Interval Estimates of Monotone Functions by Rearrangement](#)  
*Victor Chernozhukov, Ivan Fernandez-Val, Alfred Galichon*

16:05 [Monotonicity and Log-Concavity Constraints in Regression](#)  
*Lutz Duembgen, Geurt Jongbloed*

16:35 [Monotone Spectral Density Estimation](#)  
*Dragi Anevski, Philippe Soulier*

17:05 Discussant: *Irene Gijbels*

17:35 Open discussion

**IPM 25**

**Hall 1B Measuring Prices Statistics: A National Conspiracy of Numbers?**

**IAOS**

Organiser: *Michael Ward*

15:30 Chair: *Robert Parker*

15:35 [How relevant and useful are official measures of price change in Hong Kong?](#)  
*Leslie Tang*



- 16:00 [A Sceptical View of Hedonics](#)  
*Derek William Blades*
- 16:25 [Using the SNA to Improve Price Measures](#)  
*David Fenwick*
- 16:50 [Promoting Public Trust and Understanding of the HICP](#)  
*Inna Steinbuka*
- 17:15 Discussant: *Robert Parker*
- 17:35 Open discussion

**IPM 30**      **Hall 6A**      **Statistical Online Monitoring**

**IASC**

- 15:30 Organiser and chair: *Roland Fried*
- 15:35 [Statistical On-line Monitoring: An Introduction](#)  
*Bjoern Schelter, Jens Timmer*
- 16:05 [Statistical practices for environmental monitoring](#)  
*Peter Filzmoser*
- 16:35 [Sequential monitoring changes in regression and time series models](#)  
*Marie Huskova*
- 17:05 Discussant: *Roland Fried*
- 17:25 Open discussion



**IPM 41**      **Hall 4B**      **Exploiting the Progress in Statistical Graphics and Statistical Computing for the Benefit of Statistical Literacy**

**IASE**

- 15:30    Organiser and chair: Juana Sanchez
- 15:35    [Using R and GGobi to Enhance the Learning of Multivariate Analysis and Data Mining](#)  
*Dianne Cook*
- 16:15    [Wikis, Dynamic Charts, Videos and other Innovative Tools to Transform Statistics into Knowledge](#)  
*Enrico Giovannini*
- 16:55    [How to Avoid Some Common Graphical Mistakes](#)  
*Naomi Robbins*
- 17:35    Open discussion

**IPM 44**      **Hall 2BH**      **Teaching, Learning and Assessing Statistics Problem Solving in Higher Education**

**IASE**

- 15:30    Organiser and chair: *Neville Davies*
- 15:35    [The application of problem-based learning to statistics education: a case study](#)  
*Jennifer Vanessa Freeman, James Crossley, Fergus Hamilton, Molebedi Segwagwe*
- 16:05    [Similarities and contrasts in learning problem-solving in statistical data analysis and modelling](#)  
*Helen Macgillivray*



16:35 [Issues of Assessment when Teaching through Problem Solving](#)

*Penelope Bidgood, Neville Hunt*

17:05 Discussant: John Marriot

17:35 Open discussion

**IPM 60**

**Hall  
2E**

**What Role, if any, should weights play in the Analysis of Survey Data**

**IASS**

15:30 Organiser and chair: *Phil Kott*

15:35 [The role of survey weighting in analysis of complex survey data: An overview](#)

*Milorad Kovacevic, J.N.K. Rao*

16:05 [Improving the Efficiency of Weighted Regression Estimators](#)

*Wayne Fuller*

16:35 [The analysis of structural equation models in the case of complex survey data](#)

*Stephen Du Toit*

17:05 Discussant: Chris Skinner

17:35 Open discussion



**IPM 64**      **Hall 5B**      **Statistics in the Pharmaceutical Industry**

**ISBIS**

15:30    Organiser and chair: *Chihiro Hirotsu*

15:35    [Statistical methods in the pharmaceutical industry - where to go?](#)

*Peter Bauer*

16:05    A perspective on the quantitative assessment of the safety of pharmaceuticals during their life-cycle in a global environment

*Robert O'Neill*

16:35    [Statistical issues in global drug development with a close look at Japan and the Asian region](#)

*Hiroyuki Uesaka*

17:05    Discussant: *Frank Bretz*

17:35    Open discussion

**IPM 72**      **Hall 2C**      **Measuring access to monetary and financial services**

**GTC, IFC**

15:30    Organiser and chair: *Vukani Mamba*

15:35    [Measuring the evolution of monetary and financial services in Portugal](#)

*João Cadete De Matos, Luís D'Aguiar*



- 16:00 [The measurement of consumer access to financial services in South Africa](#)  
*Penelope Hawkins*
- 16:25 [Access to Financial Services in Argentina: A National Survey](#)  
*Gastón Repetto*
- 16:50 Discussant: *Cassim Coovadia*
- 17:00 Discussant: *Cigdem Kogar*
- 17:10 Open discussion

**IPM 77**

**Hall  
4C**

**Statistical methodology for the analysis of sleep studies**

**GTC, LS**

Organiser: *Ciprian Crainiceanu*

- 15:30 Chair: *Henry Mwambi*
- 15:35 [Signal extraction in the analysis of EEG activity during sleep](#)  
*Ciprian Crainiceanu*
- 16:00 [On the analysis of multiple sleep hypnograms](#)  
*Brian Caffo, Ciprian Crainiceanu, Bruce Swihart, Naresh Punjabi*
- 16:25 [Generalized Multilevel Functional Regression](#)  
*Ana-Maria Staicu, Ciprian M. Crainiceanu, Chongzhi Di*
- 16:50 [Characterizing and Quantitating Normal and Abnormal Sleep](#)  
*Naresh Punjabi*





17:15 Open discussion

**IPM 100**     **Hall 5C**     **Improving Data Archiving and Dissemination Systems for a Better Access and Utilization of Survey and Census Data**

**ISI, AASDA**

Organiser: *Robert McCaa*

15:30 Chair: *Dmitri Sanga*

15:35 [Data Archiving in Uganda](#)

*Solome Sevume*

15:55 [La documentation, l'archivage et la dissémination des micro-données au Sénégal](#)

*Mamadou Niang*

16:15 [African Microdata Access Survey 2009](#)

*Lynn Woolfrey, Matthew Welch*

16:35 [IPUMS-International: lessons from 10 years of archiving and disseminating census microdata](#)

*Robert McCaa, Wendy Thomas*

16:55 Discussant: Margaret Mbogani

17:10 Open discussion



**STCPM 9      Hall 3B      Developments and Progress in Applied Statistical Modelling for the Economic Sciences: Using Non-parametric Regression Methods**

- 15:30    Organiser and chair: *George Djolov*
- 15:35    [Identifying monotonic and non-monotonic relationships](#)  
*Shlomo Yitzhaki, Edna Schechtman*
- 16:05    [Model-assisted Survey Regression Estimators: A Rank-based Approach](#)  
*Andrés Gutiérrez*
- 16:35    [On Restricted Linear Regression Model](#)  
*Rakesh Bajaj, D.S. Hooda, Gaurav Garg*
- 17:05    [Methodological challenges in measuring business concentration as an official statistic: The Case of the Hirschman-Herfindahl Index](#)  
*George Djolov, Riona Arjoon*
- 17:35    Open discussion

**STCPM 25      Hall 2C      Issues facing Women in Leadership roles in Official Statistics**

- 15:30    Organiser and chair: *Martha Farrar*
- 15:35    Panelist: *Inger Eklund*
- 16:00    Panelist: *Susan Linacre*
- 16:25    Panelist: *Eva Laczka*
- 16:50    Panelist: *Awa Thiongane*
- 17:15    Moderator: *Denise Lievesley*



17:40 Open discussion

**STCPM 44**   **Hall 2A**   **Measuring health workforce inequalities: Methods and applications**

15:30 Organiser and chair: *Neeru Gupta*

15:35 [Inequalities in Technical Brazilian Health Workforce](#)  
*Alexandra Almeida, Beatriz Mendes*

16:05 [Health Workers Labour Market in Mexico. Multivariate Analysis of Under- and Unemployment of Four Professional Groups](#)  
*Nigenda Gustavo, Idrovo Javier, Hernández Juan Eugenio, Méndez Oscar*

16:35 [Measuring health workforce inequalities in the Ethiopian context: methods and applications](#)  
*Yayehyirad Kitaw Yitateku, Damen Hailemariam*

17:05 Discussant: Till Baernighausen

17:35 Open discussion

**STCPM 56**   **Hall 1A**   **Re-engineering of business and trade statistics**

15:30 Organiser and chair: *Peter Bekx*

15:35 [The Modernisation of European Enterprise and Trade Statistics \(MEETS\) programme](#)  
*Axel Behrens*



- 15:55 [Walking a Tightrope: Balancing Budgets, Burden and Demand – Reshaping Irish Business Statistics](#)  
*Steve Macfeely*
- 16:15 [Challenges in using multiple data sources: from VAT data to industrial production and other business statistics at Statistics Finland](#)  
*Mika Sirviö*
- 16:35 [Administrative data use in the Slovenian business statistics](#)  
*Karmen Hren*
- 16:55 [Challenges in globalisation and their impact on business registers](#)  
*Andreas Lindner*
- 17:15 [A TQM approach for re-engineering business surveys](#)  
*Revilla Pedro*
- 17:35 Open discussion

**STCPM 57**   **Hall 2D**   **Teaching and Learning Resources using Census@School**

- 15:30 Organiser and chair: *Neville Davies*
- 15:35 [Census At School Resources from Canada](#)  
*Neville Davies, Mary Townsend*
- 16:00 [Using CensusAtSchool as a resource for statistics teaching in New Zealand classrooms](#)  
*Sharleen Forbes, Maxine Pfannkuch, Chris Wild*



16:25 The Japanese CensusAtSchool Project: New Resources for School Level Statistics Education in Japan

*Kazuhiro Aoyama, Michiko Watanabe, Kazunori Yamaguchi*

16:50 [Relevant and Engaging Statistics Resources from Census@School UK](#)

*Neville Davies, Doreen Connor*

17:15 Discussant: *Neville Davies*

17:40 Open discussion

**STCPM 94**

**Hall  
1A** **Metastitital Perspective**

**ISI**

15:30 Organiser and chair: *Pali Lehohla*

15:35 Statistical Information in Metastitital

*Prof Helmut Spinner*

16:00 TBA

*Calvello Gilberto*

17:40 Open discussion



**STCPM 76 Hall 1B Access to Statistics - Best Practices in Europe**

15:30 Organiser and chair: *Gunter Schäfer*

15:35 [Rich internet applications for the visualisation of statistics: the use of Flash and SDMX-ML on the European Central Bank websites](#)

*Xavier Sosnovska*

16:00 [Making sense of statistics](#)

*Jessica Gardner*

16:25 [Benefits from international cooperation in the CZSO dissemination](#)

*Petra Kuncova*

16:50 [Integrating statistical content in an electronic publishing system](#)

*Norbert Reinert*

17:15 Discussant: *Margit Epler*

17:40 Open discussion

**STCPM 131 MR22 Maths4Stats Workshop A 2**

15:30

**STCPM 136 MR22 Maths4Stats Workshop B 2**

15:30



**CPM 15**

**MR  
12A**

### **Small area estimation**

Chair: *Gary Sharp*

15:30 **Small Area Estimation of Unemployment for Cross Cutting Geographies in Great Britain**

*Denise Britz Do Nascimento Silva*

15:50 **Small Area Estimation of the Ukrainian Unemployment Rate**

*Maryna Ogay*

16:10 **Estimation of poverty indicators at the small area level in Italy**

*Monica Pratesi*

16:30 **Intercensal Small Area Poverty Estimation: The Philippine Experience**

*Romulo Virola*

16:50 **The Trends of Poverty and Migration, and Changes in the Demographics of Household Structure in the Magisterial Districts of the North West Province (South Africa)**

*Philip Serumaga-Zake*

**CPM 26**

**MR  
11C**

### **Aspects of National Statistical Systems**

Chair: *Shubhabrata Das*

15:30 **Modifications récentes de la loi statistique en France - Recent Modifications of the French Statistical Law**

*Michel Isnard*



- 15:50 [Analysis of Statistical Managing Mechanism in China](#)  
*Youda Xiong*
- 16:10 [New Statistical System for Official Statistics in Japan](#)  
*Makoto Shimizu*
- 16:30 [Toning up the Statistical System in India](#)  
*Kunniseri Eswaran Vaidyanathan*
- 16:50 [Global Network towards developing the Official Statistics](#)  
*Ola Shakhshir*
- 17:10 [Studies on the Making of China's Development Index](#)  
*Wei Yuan*

**CPM 87**

**MR  
12C**

**Finance and Banking**

Chair: *Alphonse Kwame A Amey*

- 15:30 [The interaction between the banking sector and the macro economy in Croatia](#)  
*Nataša Erjavec*
- 15:50 [Measuring Stock-Market Efficiency: Evidence from the Uganda Securities Exchange \(USE\)](#)  
*Francis Birakwate*
- 16:10 [The transformation of the Italian banking system: The legislative autonomy and Sicily case study](#)  
*Pietro Massimo Busetta*





16:30 OLS and Simultaneous Equation Methods For Simple Keynesian Model on the Ethiopian Macroeconomic Data (1953-1995 E.C.)

*Ali Abdulhakim Kemal*

16:50 Public Expenditure Composition and Economic Growth The Portuguese Case

*João Falcão*

17:10 Income and Expenditure Distribution in South Africa: The 2005/06 Income and Expenditure Survey

*Alphonse Kwame A Amey*