



Friday

IPM 21

**Hall
4B**

Improving comparability of urban and regional data: Standards, harmonization, and sharing metadata resources for survey development

IAOS

Organiser: *Wendy Thomas*

09:00 Chair: *TBA?*

09:05 [SDMX – A standard for Data and Metadata Exchange](#)

Bryan Fitzpatrick

09:30 [Harmonizing the World's Census Microdata: Methods and Challenges of the IPUMS Project](#)

Matthew Sobek

09:55 TBA

Kobus Herbst

10:20 [Comparable geography: options for developing small area harmonized geographies for comparison, implications for aggregate data production](#)

Wendy Thomas

10:55 Discussant: *Markandev Raj*

11:10 Open discussion



IPM 39

**Hall
3B**

Challenges faced in Statistics Education in African countries

IASE, Local Hosts

09:00 Organiser and chair: *Delia North*

09:05 **Statistics Education in South Africa: Challenges and Successes**

Temesgen Zewotir, Delia North

09:40 **Challenges faced in Statistical Education in Ethiopia**

Eshetu Wencheke

10:15 **Statistics Education in Kenya-Developments and Challenges**

John Wiclif Odhiambo, Silas Onyango

10:50 Open discussion

IPM 55

**Hall
5B**

New Methodologies in Sampling Rare and Elusive Populations

IASS

09:00 Organiser and chair: *Sanghamitra Pal*

09:05 **Network methods for sampling rare and elusive populations**

Steve Thompson

09:35 **Sampling and Oversampling Rare Subpopulations**

Graham Kalton



IPM 74 **Hall 2E** **Group sequential analysis design**

GTC, LS

- 09:00 Organiser and chair: *M.J. van der Laan*
- 09:05 [Comparing Efficiency for Adaptive and Non-Adaptive Group Sequential Designs](#)
Bruce Turnbull
- 09:35 [Exploring the benefits of adaptive sequential designs in time-to-event settings](#)
Sarah Emerson, Kyle Rudser, Scott Emerson
- 10:05 [Improvements on the Closure Testing Principle in Data Adaptive Group Sequential Randomized Trials](#)
Michael Rosenblum, Mark Van Der Laan
- 10:35 Open discussion

IPM 97 **Hall 2D** **Estimating demographic statistics with flawed vital registration systems**

GTC, IUSSP, IASS

- Organiser: *Carla Abou-Zahr*
- 09:00 Chair: *Dennis Trewin*
- 09:05 [Demographic Surveillance: the solution for civil registration in Africa](#)
Alex Ezeh, Yazoume Ye
- 09:30 [What Can Be Done With Incomplete Civil Registration Data: Potential and Pitfalls](#)
Kenneth Hill



09:55 [Cape Town mortality surveillance highlights differential health needs within the metropole](#)

Pam Groenewald, Debbie Bradshaw, Johann Daniels, Nesbert Zinyakatira

10:20 Discussant: John Cleland

10:30 Discussant: Ben Kiregyera

10:40 Open discussion

STCPM 35

**Hall
2C**

New Development Challenges and New Development Partnerships: The Relevance of Statistics

Organiser: *Grace Bediako*

09:00 Chair: *Ernest Aryeetey*

09:05 [New Development Challenges and New Development Partnership: Relevance of Statistics](#)

Awa Thiongane

09:35 [Challenges for inclusive development in post-conflict situations: the role of statistics](#)

Nouhoun Coulibaly

10:05 [The General Data Dissemination System \(GDDS\) a reflection on it's first twelve years and plans for taking it forward](#)

Charles Enoch

10:35 Discussant: *Lesetca Kganyago*

11:05 Open discussion



STCPM 65

**Hall
4C**

Improving quality of statistical processes

09:00 Organiser and chair: *Manfred Ehling*

09:05 **Process orientation - implications on data quality**

Jörgen Svensson

09:30 **Quality and standardisation of processes**

Hans Viggo Sæbø

09:55 **Implementing ISO 20252:2006 "Market, opinion and social research" in a statistical office**

Federico Segui

10:20 **Participative quality audits at Statistics Finland**

Pasi Piela

10:55 **A Statistical Quality Management Framework for sample surveys in an Official Statistical Agency**

Marlize Pistorius, Luthando Mayekiso

11:10 Open discussion

Programme
Friday

B



STCPM 91 **Hall** **Issues relating to censuses**
A

John Kekovole

09:00 [Fieldwork Experiences and Challenges in Data Collection: The Eastern Cape Province of South Africa](#)

Nondyebo Tsotsi

09:20 [The Dwelling Frame project as a tool of achieving socially-friendly Enumeration Areas' boundaries for Census 2011, South Africa](#)

Bhekani Khumalo

09:40 [Strategy for Estimating Census Coverage in the 2011 Census of England and Wales](#)

James Brown, Christine Sexton, Owen Abbott

10:00 [Comparison of Community Survey 2007 and General Household Survey 2007: Findings on Household Goods and Services](#)

Nhlanhla Makhanya, Lutendo Malisha, Azam Khan, Kholofelo Uoane

10:20 [The Thematic Areas of Liberia's 2008 Population and Housing Census, Their Justification and Essence](#)

James Mayson

10:40 [Testing the sampling design of the Sudan Family Health Survey using the 5th population census fieldwork](#)



STCPM 123 **MR** **International Statistical Literacy Project**

22A

09:00

STCPM 124 **MR** **International Statistical Literacy Project**

22B

09:00

CPM 10 **Hall** **Bayesian methods**

6a

Andreas Christmann

09:00 [Constrained Bayes Estimator in Elliptical Models](#)

Mohammad Arashi

09:20 [A Bayesian Inference Approach to the Content-Based Image Retrieval Problem](#)

Simon Wilson

09:40 [Empirical-type likelihoods: Role of data-dependent priors](#)

Rahul Mukherjee

10:20 [Bayesian Model Selection in Linear Mixed Effects Models with AR\(1\) Errors](#)

Tsai-Hung Fan

10:40 [Multivariate Beta Regression](#)

Fernando Moura

Programme
Friday

B



CPM 33

Hall 2bh Spatial statistics

Andrew Reamer

09:00 [Space Pattern Analysis for Biological Data](#)

Makiko Oda

09:20 [Some recent developments in Non-linear Spatio-Temporal Models](#)

Nihal Yatawara

09:40 [A Simulation Study on Detection and Correction of Geometric Anisotropy for Geostatistical Data](#)

Takafumi Kubota

10:00 [The Use of Central Similarity Proximity Catch Digraphs for Testing Multivariate Spatial Patterns](#)

Elvan Ceyhan

10:20 [Robust and Bayesian Methods in geostatistics: An application to precision farming](#)

Martha Bohorquez

10:40 [Estimation of species richness applied to forest communities](#)

Tsung-Jen Shen



CPM 34

Hall 6b Longitudinal data analysis

Mark Berman

09:00 [Sensitivity analysis of longitudinal data with non-random dropouts using semi-parametric models](#)

David Todem

09:20 [Missing Data Problem in Longitudinal Addiction Research](#)

Elena Verbitskaya

09:40 [Analysis of Continuous Multivariate Measurements under Informative Sampling with Application in Longitudinal Survey Data](#)

Abdulhakeem Eideh

10:00 [A New Methodology for Mixed Models and Models for Longitudinal Data](#)

Nina Strydom

10:20 [Uniform Weak convergence of non randomly weighted poverty measures for longitudinal data](#)

Gane Samb Lo

10:40 [Mixed Effects Models For Time Series Gene Expression Data](#)

Ibrahim Erkan

Programme
Friday



CPM 42 **MR** **Gender based violence**
11a

Stephen McNeill

09:00 [Measures Required for Reducing Domestic Violence Against Women in India: A Statistical Analysis](#)

Pathak Prasanta

09:20 [Sexual and Gender-based Violence Against Women in Conflict Areas in Uganda: A Case of Kitgum District](#)

Jonathan Odwee

09:40 [Spousal Sexual Violence, Sexual Behavior and Sexually Transmitted Diseases among Ever-Married Women in Uganda: An Analysis of UDHS 2006](#)

Stephen Ojiambo Wandera

10:40 [Does Gender-Based Violence contribute to Under-five Mortality in Africa?](#)

Nicole Claire De Wet

CPM 53 **MR** **Outliers**
11b

Chair: Francis Selialia

09:30 [On the distributions of test statistics for outliers identification in exponential and gamma samples](#)

Deepak Sanjel

09:30 [Testing for Inliers](#)

Baris Surucu, Moti L Tiku



CPM 63

**MR
11c**

Financial instruments

E.S.K. Muwanga-Zake

09:00 [Innovative Models for Reselling of Options](#)

Dmitrii Silvestrov

09:20 [Pricing European and American basket Options through a Monte Carlo Simulation Engine](#)

Giuseppe Bruno

09:40 Pricing a European exchange option driven by Merton's jump diffusion model using the Esscher transform

Ahmed Essay

10:00 [Statistical Models for Pricing Weather Derivatives for Major South African Cities](#)

Mark Wopicho Nasila

10:20 [A Median rank approach for stock selection in Portfolio construction](#)

Obaid Al-Saidy

CPM 83

**MR
12a**

Design and Analysis of Surveys

Samuel Manda

09:00 [Determinants of Foreign Direct Investment in Burkina Faso](#)

Zongo Prosper



09:20 [Nonparametric Methods with Survey Data](#)

Torsten Harms

09:40 [Randomizations In Lesotho](#)

Mamello Phororo

10:00 [Penalized Calibration in Survey Sampling](#)

Fabien Guggemos

10:20 [The Internet survey design](#)

Elzbieta Getka-Wilczyńska

10:40 [Selection of Arsenic-affected Water Zones - An Application of Adaptive Sampling Procedure](#)

Sanghamitra Pal

CPM 99

**MR
12b**

Processes and time series

Thaddaeus Egondi

09:00 [Discrete Model for the Bombings in Region XII, Mindanao, Philippines](#)

Epimaco, Jr. Cabanlit

09:20 [Multipower Variation for Brownian Semistationary Processes](#)

José Manuel Corcuera

09:40 [Periodically correlated- Locally stationary Processes](#)

Saeid Rezakhah



10:00 [A novel algorithm for time synchronization in sensor networks](#)

Jahangir Kheyrihassankandi

10:20 [Connectivity Measures in the Frequency Domain: An Information Theoretic Interpretation](#)

Luiz Antonio Baccala

10:40 [Asymptotic goodness-of-fit tests for point processes based on second-order product densities](#)

Lothar Heinrich

CPM 118

**MR
12c**

Social Statistics 2

Georges Parfait Djimefo Kapen

09:00 [Is there a mortality differential by marital status among women in South Africa? A study on a rural sub-district of Mpumalanga province in the north-east South Africa](#)

Mercy Shoko

09:20 [Statistical Data Management and Dissemination with PROGNOZ](#)

Vladimir Eskin

09:40 [Sample Design for the South African Labour Force Survey](#)

Ngoako Johannes Mokgerepi

10:00 [Factors associated with women unemployment in South Africa](#)

Casment Mahlwele

Programme
Friday





10:20 Using a multi-purpose household sample survey to investigate tobacco smoking – the Brazilian case

Sonia Albieri

IPM 9

**Hall
2D**

Statistical Modelling and Data Analysis for Neural Coding

BS

Organisers: *Elie Bienenstock and Britt Anderson*

13:00 Chair: *Britt Anderson*

13:05 Inferring size and temporal precision of correlated neuron group activity from population measures

Sonja Gruen, Sebastien Louis

13:30 Synthetic Spike Trains With Defined Pairwise Correlations

Ernst Niebur, Daniel Millman

13:55 Nonparametric spike train analysis via resampling

Asohan Amarasingham

14:20 Emergence of Cross-Correlation Functions in Neural Spike Interval Distributions

Jonathan Tapson

14:55 Discussant: Markus Diesmann

15:10 Open discussion

Programme
Friday

B



IPM 35 **Hall 3B** **Spatial Statistics: Recent Advances in Epidemiological Applications**

IASC

- 13:00 Organiser and chair: *Elvan Ceyhan*
- 13:05 [Space-time mortality risk smoothing using P-splines](#)
Maria Dolores Ugarte, Tomas Goicoa, Ana F. Militino
- 13:30 [Space-Time Scan Statistics for Disease Outbreaks](#)
Toshiro Tango
- 13:55 [Spatial Clustering of Small Areas with Bayesian Methods](#)
Renato Assunção, Alexandra Schmidt, Rosângela Loschi, João Monteiro
- 14:20 Discussant: Paul Fatti
- 14:55 Discussant: Aila Särkkä
- 15:10 Open discussion

IPM 56 **Hall 6A** **Modelling Economic Data to Produce Small Area Estimates**

IASS

- Organisers: *Mike Hidioglou, Susana Rubin-Bleuer*
- 13:00 Chair: *Mike Hidioglou*
- 13:05 [Estimation of Poverty Measures in Small Areas](#)
Isabel Molina, J.N.K. Rao



13:35 [On some robust estimators for Polish Business Survey](#)

Elzbieta Golata, Grazyna Dehnel

14:05 [The Use of Sample Design Features in Small Area Estimation](#)

Stefano Falorsi

14:35 Discussant: *Raymond Chambers*

15:05 Open discussion

IPM 80

**Hall
2A** **Measuring fertility**

GTC

13:00 Organiser and Chair: *Niels Keiding*

13:05 [A nation-wide fecundity study based on the current duration and prevalent cohort designs](#)

Remy Slama, Aline Bohet, Oluf Hansen, Beatrice Ducot

13:35 [Assessing the effect of education on fertility for a cohort of Danish women](#)

Mette Gerster, Niels Keiding

14:05 [Rates of births and induced abortions in Denmark according to age, previous births and previous abortions](#)

Niels Keiding, Marie-Louise H. Hansen, Ditte Moelgaard-Nielsen, Louise Stage

14:35 Open discussion

Programme
Friday

B



IPM 87

**Hall
4B**

New methods for improving access to statistics by the general public

GTC, IAOS

Organiser: *Siu-Ming Tam*

13:00 Chair: *TBA*

13:05 [Innovative Approaches to Turning Statistics into Knowledge - Promoting Informed Decision Making](#)

Lars Thygesen, B Sundgren

13:35 [Mobile Enabling the ABS Website](#)

Andrew Mair

14:05 [Web 2.0 and Official Statistics: the UK perspective](#)

Alan Smith

14:35 Discussant: *Nireen Naidoo*

15:05 Open discussion

IPM 88

**Hall
4C**

Statistics for Development

GTC, IAOS, Local Hosts

13:00 Organiser and chair: *Misha V. Belkindas*

13:05 [Statistics to Support Africa's Special Development Needs](#)

Ben Kiregyera, Charles Lufumpa, Michel Mouyelo-Katoula

Programme
Friday

B



- 13:30 [Statistical development: An EU/Africa partnership](#)
James Whitworth, Pieter Everaers, Maria João Santos
- 13:55 [Financing Statistics for Development Results](#)
Graham Eele, Neil Fantom, Mustafa Dinc
- 14:20 Discussant: Anne Letsebe
- 14:55 Discussant: Antoine Simonpietri
- 15:10 Open discussion

IPM 96

Hall 5C Progress, politics and statistics: interactions and implications

GTC, OECD

Organiser: *Jon Hall*

- 13:00 Chair: Walter Radermacher
- 13:05 [National Time Accounting: The Currency of Life](#)
Alan Krueger, Daniel Kahneman
- 13:30 [Development and policy indicators: The role of accountability in a developing state](#)
Ronette Engela
- 13:55 [Measuring the Progress of Societies: Statistics & Policy - Statisticians & Policy Makers](#)
Jonathon Hall
- 14:20 TBA
François Bourguignon

Programme
Friday

B



- 14:45 Discussant: Grace Bediako
- 14:55 Discussant: François Bourguignon
- 15:05 Open discussion

IPM 102

**Hall
2C**

Invited paper meeting in honour of David G. Kendall

BS, ISI

Organisers: *Jef L. Teugels, Wilfrid Kendal*

15:30 Chair: Wilfrid Kendal

15:35 **David G. Kendall: his life, his work and his significance for ISI**

Jef L. Teugels

16:15 **David Kendall's Contribution to the Application of Statistics in Archaeology and Related Matters**

John Clifford Gower

16:55 **From Kendall Shape to Radon Shape via Structural Biology**

Victor Panaretos

17:35 Open discussion



STCPM 8

Hall 2E Copulas

- 13:00 Organiser and chair: *Jan Swanepoel*
- 13:05 [Kernel estimation of copulas](#)
Noël Veraverbeke
- 13:30 [Directional Dependence of Survival Truncated FGM Type Modification Copulas](#)
Jong-Min Kim, Yoon-Sung Jung, Tim Soderberg
- 13:55 [Bootstrap-based tests for two measures of association](#)
James Samuel Allison, Jan Willem Hendrik Swanepoel
- 14:20 [Copula Approximations](#)
Mark Dowdeswell
- 14:55 Discussant: *Noël Veraverbeke*
- 15:10 Open discussion

STCPM 33

Hall 6B Household Surveys in Africa: New Challenges

- 13:00 Organiser and chair: *Oliver Chinganya*
- 13:05 [A review on HIES and BAIS-II Survey Designs](#)
R Aghunath Arnab, Phlip A. E. Serumaga-Zake, Vijai Kumar Dwivedi
- 13:30 [Household Surveys in Africa: A case of Ghana](#)
Emma Essie Dzoe Sepah



- 13:55 Analysis of health care in Africa based on household surveys
Naomi Totlego, NP Sinha
- 14:20 TBA
Thapelo Sediadie
- 14:55 Discussant: Oladejo Ajayi
- 15:10 Open discussion

STCPM 37

**Hall
5B**

Restoring Statistical Systems in Post-Conflict Countries

- 13:00 Organiser and chair: *Pali Lehohla*
- 13:05 Statistics and Conflict: Case of Sudan
Abdelbagi Gailani
- 13:30 Afghanistan: Conflict and Statistics, Problems and Challenges
Abdul Rahman Ghafoori
- 13:55 Cambodian Statistical System since the downfall of the Khmer Rouge Regime
Seng Soeurn
- 14:20 The Role of Statistics in a Fragile Conflict State
Nur Weheliye
- 14:55 Open discussion



STCPM 125 **MR** **International Statistical Literacy Project**
22A

13:00

STCPM 126 **MR** **International Statistical Literacy Project**
22B

13:00

STCPM 110 **MR** **Improving the quality of Official Statistics**
11B

TBA

13:00 **Data Editing - A Way of Improving Survey Quality - The Experience from the Balkans**

Jean-Pierre Ntezimana, Arijana Amina Muhic

13:20 **On survey data quality: Use of LogicGem as a tool for quality improvement in processing of household budget surveys**

James Serwadda-Luwaga, Rodney Khumalo

13:40 **Application of the Graphical Editing Techniques to the Mining and Manufacturing Survey Data**

Euikyoo Lee

14:00 **Experiencing the Semper Validation Software: Genuine African solutions for data validation within the International Comparison Program**

Mathieu Bikou Djayeola



- 14:20 [Continuous Improvement within a Survey Environment to ensure a sound Quality System](#)
Paula l'Ons, Anné-Marie Buitendach, Marlize Pistorius, Lomkhosi Dlamini
- 14:40 [The Analysis of the non-response and the out-of-scope cases as a quality management tool for field operations](#)
Dion Dhemandra Pietersen

STCPM 111 **MR 12A** **Indicators and Indices**

TBA

- 13:00 [The Statistical Method Research on Information Consumption Coefficient and Classifying the Levels of Informatization Development](#)
Yang Jingying
- 13:20 [Optimal Aggregate Indices and Corresponding Elementary Indices](#)
Jens Mehrhoff
- 13:40 [Composite Leading Indicator \(CLI\) for the Iranian Economic Activities](#)
Roya Tabatabaee Yazdi, Fredric Malek, Behzad Mahmoodi
- 14:00 [Research on Indicator System for Estimating Happiness Index](#)
Ming Yu, Shengzhi Weng
- 14:20 [Comment on and Analysis of Modernized Life Quality of Fujian](#)
Yan Zhou



14:40 [A simple approach to statistical indicator creation and management in South Africa](#)
Luthando Mayekiso

CPM 18

**Hall
2bh** **Experimental design**

Walter Radermacher

13:00 [E\(s2\)-optimal supersaturated designs for 2-level factors based on Hadamard Matrices](#)
Kashinath Chatterjee

13:20 [Locally D-optimal designs for a dose-response model with two explanatory variables](#)
Gaetan Kabera

13:40 [Optimal Designs for Biomedical Research via the World Wide Web](#)
Weng Kee Wong

14:00 Efficiency Balanced Block Designs for Diallel Cross Experiments
Chand K. Midha

14:20 Trend-Free Designs in Blocked Factorial
P.C. Wang

14:40 [On Circuits and Automorphism Groups for Discriminating Three Optimal \(4x4\)/4 Semi-Latin Square Designs](#)
Polycarp Chigbu

Programme
Friday

B



CPM 30

**MR
11a**

Latent variable modelling

Aysen Akkaya

13:00 [Approximating Hidden Semi-Markov Models by Hidden Markov Models](#)

Roland Langrock

13:20 [The application of hidden Markov models to interval-censored time series](#)

Iain MacDonald

13:40 [Hierarchical modelling of binary data with dependence between the design and outcome success probabilities](#)

David Todem

14:00 [Statistical Methods for Non-Linear Latent Variables Models: Issues of resource allocation for the development of human capital](#)

Linda Hewitt

14:20 [Item Response Theory and the development of a rating scale for nonverbal communication](#)

Esme Jordaan

14:40 [Micro Evidence of Innovation on Competitiveness in 4 China Industrial Sectors: A SEM Model by Using Firm Data](#)

Feng Zhen



CPM 73

**MR
11c**

Space and time issues

Burcin Emre Ulgen

13:00 [Spatio-Temporal Gaussian Models and their level crossings distributions](#)

Anastassia Baxevani

13:20 [Filtering problems in spatio-temporal point processes](#)

Viktor Benes

13:40 [Inner View of Spatial Autoregression Residuals with LADS and Join-Count Statistics: The Binary Context](#)

Joao Negreiros

14:00 [Combining Distance and Angle Judgments for Inference from Spatial Memory](#)

Steven Marchette

CPM 111

**MR
12b**

Theory and practice

Riona Arjoon

13:00 [An Alternative Approach to the Westlake Confidence Interval Method for Bioequivalence Trials](#)

Laura Tim

13:20 [A Flexible Software Reliability Model with Generalised Weibull Test Effort Function](#)

Gopal Govindasamy

13:40 [Hierarchical Distances in Corrosion Phases](#)

Francisco Casanova Del Angel

Programme
Friday

B



14:00 [Influence analysis in QTL detection](#)

Xiaoling Dou

14:20 [Profit Analysis Of Reliability Models With Inspection At Different levels Of Damages Subject To Weather Conditions and Degradation](#)

Suresh Chander Malik

14:40 [Application of the mixed effects regression models in measuring the carry-over effects of TV advertising](#)

Dong-Hee Lee

STCPM 133 **MR** Maths4Stats Workshop A 4
22A

15:30

STCPM 138 **MR** Maths4Stats Workshop B 4
22B

15:30