



**Keele University**

# **Conference on Applied Statistics in Ireland**

## **CASI -1999**



**Irish Statistical Association**

**Programme May 26<sup>th</sup> - May 28<sup>th</sup>, 1999**

*Dunadry, Antrim, Northern Ireland*

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*\* Exhibiting at the Conference*

## **PROGRAMME CASI-1999**

**Wednesday, May 26<sup>th</sup>.**

**11.00 Registration Open**

**12:30 Lunch**

Afternoon Session: *Agricultural & Related Themes*

**14:00 Keynote Talk: Statistical & health issues arising from BSE & nvCJD**

*Dr. Sheila Gore, MRC Biostatistics Unit, Cambridge.*

15:00 Reduction in the number of control varieties in distinctness testing.

*Sally Watson & Colin Weatherup, QUB*

**15:25 Tea/Coffee**

15:50 Some designs for mixtures of several plant species.

*John Connolly<sup>1</sup>, Dieter Ramseier<sup>2</sup> & Fakhri Bazzaz<sup>3</sup>,  
UCD<sup>1</sup>, GI-ETH Switzerland<sup>2</sup> & Harvard University<sup>3</sup>*

16:15 The use of sampling theory to estimate discarding from fishing vessels.

*Michelle Allen & David Kilpatrick, QUB*

16:40 Bayesian prediction with latent growth models for on-line monitoring in cheese manufacture.

*Rakhi Baj & Bart Mertens, TCD*

17:05 Mapping of indoor radon concentration.

*Yudi Pawitan, UCD & Stephen Fennell RPII, Dublin*

17:30 Close

**19:30 Drinks Reception**

**20:00 Dinner**

**Thursday May 27<sup>th</sup>.**

Morning Session: *Medical Statistics*

**9:00 Keynote Talk: Tree-based inferences from DNA sequence data**

*Professor David Balding, University of Reading, CRC Lecturer*

9:50 The estimation of the number of deaths attributable to smoking

*Don Barry, University of Limerick*

**10:15 Tea/Coffee**

10:40 Numerical state space modelling of binary data

*John Belcher, University of Keele*

11:05 Fitting multivariate survival distributions to accident data for bus drivers

*Gerry Keane CIE, Dublin & Don Barry, University of Limerick*

11:30 Practical methods for analysing dependent survival data

*John Newell, Glasgow University*

11:55 Predicting survival of stroke patients using Bayesian belief networks.

*Adele Marshall, Sally McLean & Mary Shapcott, UUI & Peter Millard,  
St. Georges's Hospital, London*

12:20 Survival analysis for longitudinal data?

*Gilbert MacKenzie, Keele University*

**12:45 Lunch**

*CASI-1999/Programme/May 26<sup>th</sup> – May 28<sup>th</sup>, 1999.*

**Thursday May 27<sup>th</sup>. (Cont'd)**

Afternoon Session: *Official Statistics & Data*

**14:00 Keynote Talk: Joined-up Government and Joined-up Statistics**

*Dr. John Fox, Office for National Statistics, UK.*

14:50 Statistics & Public Questions

*Stephen Haslett, Massey University, NZ*

**15:15 Tea/Coffee**

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**PARALLEL SESSION A - OFFICIAL**

15:40 On Measuring Industry Compliance with Environmental Laws

*Richard Bolstein, George Mason University, USA*

16:05 How do recruitment and admission affect official estimates of the length of ‘time-to-admission?’

*Paul W Armstrong, University of East London*

16:30 Social deprivation and the geographical distribution of opiate use in young males in Dublin

*Catherine Comiskey, NUI, Maynooth*

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**PARALLEL SESSION B – DATA**

15:40 Aggregating uncertain data and imprecise information for data mining

*Sally McClean, Brian Scotney, & Mary Shapcott, UUC*

16:05 Towards metadata-guided distributed statistical data processing.

*R.Pairceir, S. McClean, W. Grossman, KA Froeschal, UUC & U. of Vienna*

16:30 Promoting statistical discovery and retrieval using statistical metadata

*Y. Bi UUC & Fionn Murtagh, QUB.*

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16:55 Recent Developments in the Preparation for the 2001 Census in NI.

*Robert Beatty & Maire Rodgers, NISRA*

**19:00 Posters & Guinness**

**20:15 Conference Dinner**

**Friday May 28<sup>th</sup>.**

**Morning Session: *Methodological & General***

**9:00 Keynote Talk: Statistical inference, Likelihood and its variants**

*Professor Denis Conniffe, ESRI*

10:00 Bayes' Theorem is not a case of life or death. It is much more important than that

*D. Sprevak, UUI & D. Davison, QUB*

**10:25 Tea/Coffee**

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**PARALLEL SESSION - A**

10:50 Can you randomly generate numbers?

*Phil Boland, UCD*

11:15 Reconstruction of motion blurred images

*Kingshuk Roy Choudhury, UCC*

11:40 Reliability growth modelling

*John Donovan, IoT, Sligo & Eamonn Murphy, University of Limerick*

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**PARALLEL SESSION - B**

10:50 Do oral contraceptives affect the risk of breast cancer?

*Victoria Livingstone, University of Limerick*

11:15 Practical Issues Around the Data mining processes

*Martin Duffy, SAS Institute, Dublin*

11:40 Estimation with Poisson Sampling

*Jane Horgan, Dublin City University*

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12:05 Residuals and influence in forecasting

*John Haslett, TCD*

**12:30 Irish Statistical Association Meeting**

**13:15 Lunch**

**14:15 Conference Close**

## PROGRAMME CASI-1999

### POSTER SESSION

The standard oral programme slots were heavily over-subscribed this year and the Scientific Committee had a difficult job to present a balanced programme given the distribution of submissions received and the need, in a relatively small conference, to minimise the number of parallel sessions. Accordingly, the fact that a paper is allocated to the Poster Session reflects organisational rather than scientific judgements. The Poster Session is an integral part of the Scientific Programme and a prize will be awarded for the best poster presented at CASI –1999.

**1. Interval estimation of effective doses when a Logistic dose-response curve is incorrectly assumed.**

*Y. X, Huang<sup>1</sup>, P. Harris<sup>1</sup>, SPJ Kirby<sup>2</sup>, & JC Dearden<sup>1</sup>; Liverpool<sup>1</sup> & Pfizer<sup>2</sup>*

**2. Estimating class attendance rates: a group project for a course in survey sampling**

*Richard Bolstein, George Mason University, USA.*

**3. Fractured Steel - A Bayesian Model**

*Cathal D. Walsh, Simon P. Wilson, Trinity College Dublin*

**4. Hierarchical repeated measures modelling of a change-point problem**

*Jabulani Sithole, Keele University*

**5. Multi-resolution spatial analysis**

*Mitchell Morehart<sup>1</sup>, Fionn Murtagh<sup>2</sup>, Jean-Luc Starck<sup>3</sup> & Yaxin Bi<sup>4</sup>  
ERS, Washington DC<sup>1</sup>, QUB<sup>2</sup>, CEA France<sup>3</sup>, & UUI<sup>4</sup>*

**6. Deletion diagnostics for balanced linear mixed models**

*Dominic Dillane, Dublin Institute of Technology*

**7. Analysis of multidimensional time series with application to climatology**

*Jian Huang and Finbarr O'Sullivan, UCC*

**8. A survival analysis of the progression to treatment for opiate users**

*Elaine Hand, NUI, Maynooth*

**& Over ...**

**9. Applying logistic regression, probits and discriminant analysis to financial distress prediction**

*Mike Feng-Yu Lin and Sally McClean, UUC*

**10 Dynamics of meningococcal meningitis in Ireland**

*Gloria O'Connell, ITT & NUI and Catherine Comiskey, NUI, Maynooth*

**11. DOE in an SME – the answer to achieving quality leadership?**

*Christine Simms and John Garvin, UUI*



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**QUB**

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