

The Victorian Branch of the Statistical Society of Australia  
and The University of Melbourne present the

## 2009 Maurice Belz Lecture

5.45 pm, Tuesday 27th October

J.H. Michell Theatre

The University of Melbourne

### Filling in the missing values: Multiple imputation and the magic of applied statistics



Professor John Carlin

The method of multiple imputation is a two-stage approach for performing statistical inference in the presence of missing data, but it is sometimes misinterpreted as a method for “filling in” missing values. I will outline the theory underlying the method, describe current approaches for implementing it, and recent research on potential biases and limitations of the approach. The talk will have an emphasis on issues arising at the interface between our understanding of the statistical methods and the demands of substance-matter researchers eager for empirical findings.

*After completing an undergraduate major in Mathematics and Statistics at the University of Western Australia, and a PhD in Statistics at Harvard University, John Carlin has had over 20 years experience working as a biostatistician across a wide range of medical and public health research. He is Director of the Clinical Epidemiology and Biostatistics Unit within the Murdoch Children's Research Institute and University of Melbourne Department of Paediatrics at the Royal Children's Hospital, Melbourne, and has a professorial appointment in the Centre for Molecular, Environmental, Genetic & Analytic Epidemiology, School of Population Health, University of Melbourne. He is a founding member of the Steering Committee of the Biostatistics Collaboration of Australia, which is a national consortium that delivers a Masters program in biostatistics. Professor Carlin has a national and international reputation in biostatistics, with around 250 research publications, mainly in clinical and epidemiological journals. He is co-author of a well-known textbook on Bayesian statistics with Andrew Gelman and others (Bayesian Data Analysis, 2nd edition 2003). Over the last few years he has maintained a program of methodological research on methods for dealing with missing data using multiple imputation, which grew out of collaborative research in which incomplete data are a major practical problem.*



Statistical Society of Australia Inc.  
Victorian Branch

## Belz Dinner Booking form

7.30 pm, Tuesday, 27 October 2009  
University Café, 257 Lygon St, Carlton

Names of persons attending: \_\_\_\_\_

Contact telephone number: \_\_\_\_\_ Email: \_\_\_\_\_

Total cost (\$55 per person): \_\_\_\_\_

Please indicate any special dietary requirements: \_\_\_\_\_

### Payment methods:

**A. Credit Card:** Please debit my:            Mastercard    Visa    (Please circle)

Name on card: \_\_\_\_\_ Card number: \_\_\_\_\_

Expiry date: \_\_\_\_\_ Signature of card holder: \_\_\_\_\_

**B: Direct Credit or Electronic Bank Transfer:** For those who wish to use Direct Credit/Electronic Bank Transfer, use the bank details below. Make sure to **include your name** in the transfer details, eg **Your name, Belz**.

**Bank:** Commonwealth Bank

**Branch:** Western Vic

**Name:** Statistical Society of Australia

**BSB:** 063 020

**Account number:** 10108270

**C: Cheque:** Please accept my enclosed cheque made payable to Statistical Society of Australia Inc (Vic Branch) for \$ \_\_\_\_\_

**D: Cash:** \$ \_\_\_\_\_

**Please return this booking form and email  
Owen**

**Early registrations appreciated.**

**Receipts will be available at the dinner**

**Return to**

**Dr Owen Jones**

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