Fourth Annual ASEARC Conference 2011
Parramatta Campus, University Of Western Sydney

**Program**

**Thursday 17 February 2011**

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<th>Time</th>
<th>Session 1</th>
<th>Welcome Plenary</th>
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<td>8:45 – 9:30</td>
<td>Registration First day registration will commence. Registration will last for 45 minutes.</td>
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<tr>
<td>9:30 – 10:30</td>
<td>Session 1</td>
<td>Welcome Plenary</td>
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<td>(Room EA.G.19)</td>
<td>Chair: David Steel</td>
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<td><strong>David Steel</strong></td>
<td>Director CSSM, University of Wollongong</td>
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<td><strong>Deborah Sweeney</strong></td>
<td>Director of Research, College of Health</td>
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<td><strong>Geoff Lee</strong></td>
<td>President, SSAI</td>
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**Session 2b** (Room EA.G.10)

**Education 1**

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<td>(Room EA.G.10)</td>
<td>Chair: Carole Birrell</td>
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<td>10:45 – 12:00</td>
<td>Session 2b</td>
<td>Education 1</td>
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<td><strong>Anne Porter</strong></td>
<td><strong>Carole Birrell</strong></td>
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**Session 2 (EA.G.19)**

**Minitab Presentation**

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<td>12:00 – 12:30</td>
<td>Session 2 (EA.G.19)</td>
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<td>12:30 – 1:30</td>
<td>Lunch</td>
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1:30 – 3:00  Session 3a (EA.G.19)  **Survey Methodology**  Chair: Ray Chambers

1:30 – 2:00  Small Area Estimation under Spatial Nonstationarity  *Hukum Chandra*, Nicola Salvati, Ray Chambers, Nikos Tzavidis

2:00 – 2:30  Outlier Robust Small Area Estimation  *Payam Mokhtarian*, Raymond Chambers

2:30 – 3:00  Contextual Effects in Modeling for Small Domains  *Mohammad-Reza Namazi-rad*, David Steel

1:30 – 3:00  Session 3b (EA.G.10)  **Inference 1**  Chair: John Best

1:30 – 2:00  Two-Sample Testing for Equality of Variances  *David Allingham*, John Rayner

2:00 – 2:30  Nonparametric Tests for Two Factor Designs with an Application to Latin Squares  *John Rayner*, John Best

2:30 – 3:00  The Odds Ratio and Aggregate Data: The 2x2 Contingency Table  *Eric Beh*

3:00 – 3:30  **Afternoon Tea**

3:30 – 5:00  Session 4 (EA.G.19)  **Education 2**  Chair: Anne Porter

3:30 – 4:00  An early ASEARC-taught subject: has it been a success?  *Carole Birrell*, Ken Russell

4:00 – 4:30  Experiences with clickers in an introductory statistics course  *Alice Richardson*

4:30 – 5:00  Were Clopper & Pearson (1934) too careful?  *Frank Tuyl*

6:30 arrival for 7.00 sit down  **Dinner**

Rydges Hotel, Corner James Ruse Dr and Prospect St, Parramatta
Friday 18 February 2011

9:00 – 10:15 Session 5 (EA.G.19) Biometry
Chair: Ken Russell

9:00 – 9:25 The design and analysis of experiments with a laboratory phase subsequent to an initial phase
Chris Brien*, B.D. Harch, R.L. Correll, R.A. Bailey

9:25 – 9:50 On the analysis of variety trials using mixtures of composite and individual plot samples
Brian Cullis*, David Butler, Alison Smith

9:50 – 10:15 On the design of experiments with an embedded partially replicated area
David Butler*, Alison Smith, Brian Cullis

10:15 – 10:45 Session 5 continued Young Statisticians

10:45 – 11:00 Morning Tea

11:00 – 12:40 Session 6a (EA.G.19) Inference 2
Chair: John Rayner

11:00 – 11:25 Smooth Tests of Fit for a Mixture of Two Poisson Distributions
John Best*, John Rayner, Olivier Thas

Paul Rippon*, John Rayner

11:50 – 12:15 Bootstrap confidence intervals for Mean Average Precision
Laurence Park

12:15 – 12:40 Wilson confidence intervals for the two-sample log-odds-ratio in stratified 2*2 contingency tables
Thomas Suesse*, Bruce Brown

11:00 – 12:40 Session 6b (EA.G.10) Statistical Consulting
Chair: David Butler

11:00 – 11:25 Statistical Consulting at the CSSM
David Steel

11:25 – 11:50 A summary of methods used in statistical consulting at the University of Wollongong in 2010
Marijka Batterham

11:50 – 12:15 Advice for the potential statistical consultant
Ken Russell

12:15 – 12:40 Statistical Consulting under ASEARC
Trevor Moffiet*, Kim Colyvas

12:40 – 1:40 Lunch
1:40 – 3:20  Session 7a (EA.G.19)  Inference 3
Chair: Laurence Park

1:40 – 2:05  Generalised extreme value additive model analysis via variational Bayes
Sarah Neville*, Matt Wand, Mark Palmer

2:05 – 2:30  Prior Sensitivity Analysis for Hierarchical Bayesian Model
Junaidi*, Liz Stojanovski, Darfiana Nur

2:30 – 2:55  Is the Basis of a Stock Index Futures Market Nonlinear?
Henri Puspaningrum*, Yan-Xia Lin, Chandra Gulati

David Gibson*, Darfiana Nur

1:40 – 3:20  Session 7b (EA.G.10)  Applications
Chair: Eric Beh

1:40 – 2:05  The Analysis of Marine Mammal Take Data from the Hawaiian Deep-Set Longline Fishery
Bryan Manly

2:05 – 2:30  Systems theory and improving healthcare
Peter Howley*, Sheuwen Chuang

2:30 – 2:55  Constrained Ordination Analysis in Metagenomics Microbial Diversity Studies
Olivier Thas*, Yingjie Zhang

2:55 – 3:20  Computational and Statistical Drug Design: Self-Organising Maps (SOMs) versus mixtures in Drug Discovery
Irene Hudson*, Andrew Abell, Shalem Lee

3:20 – 3:45  Afternoon Tea

3:45 – 5:00  Session 8 (EA.G.19)  Closure Plenary
Chair: David Steel

John Rayner  Professor of Statistics, University of Newcastle
John Best  Conjoint A/Professor of Statistics, University of Newcastle
David Steel  Director CSSM, University of Wollongong

This conference is supported by Minitab