

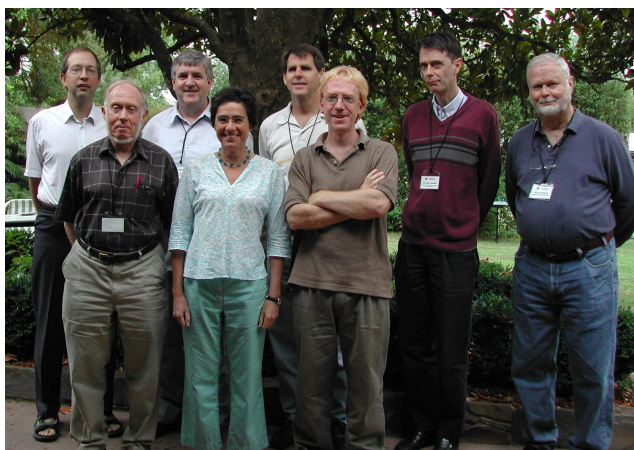
## ANZIAM 2006; the 42nd Applied Mathematics Conference

Simon Clarke

This year's conference was held at the Alzburg Inn Resort, Mansfield, Victoria from 5th-9th February 2006. 135 delegates attended, with a particularly strong representation of 36 students and attendees from Canada, USA, Saudi Arabia, Tonga and Denmark, as well as Australia and New Zealand. 118 abstracts were submitted, requiring four parallel sessions of 25 minute talks. Talks covered many areas of applied and industrial mathematics, but with a continuation of the trend of recent conferences to the four major areas of mathematical biology, stochastic processes, operations research and classical mechanics. The conference was opened by Mr Tom Ingpen, Mayor of Mansfield, and for a few days after applied mathematicians were the talk of the Legends and High Country region, attracting articles in the Mansfield Courier including delegates lounging poolside in the social pages and news articles on the local WIN television network.

Eight invited talks were presented at the conference, all of which were of an excellent standard. This year's invited talks were:

- Professor John Dennis, Rice University, USA, Optimal placement of tsunami buoys.
- Professor Roger Grimshaw, Loughborough University, UK, Solitons in the atmosphere and ocean.
- Professor Andrew Bassom, University of WA, Stability of time-periodic flows.
- Professor John Hearne, RMIT University, Mathematics at work in managing systems involving biota.
- Associate Professor Kerry Landman, University of Melbourne, Experiments movies and models: a biased walk through the world of cell migration.
- Professor Per Lotstedt, Uppsala University, Sweden, Numerical simulation of stochastic chemical models with application to molecular biology.
- Professor Phil Pollett, University of Queensland, Modelling the long-term behaviour of evanescent processes.
- Professor James Sneyd, Auckland University, Calcium oscillations: using mathematics to do physiology.



Invited speakers for ANZIAM 2006, Back row: Andrew Bassom, Phil Pollett, John Hearne, Per Lotstedt and John Dennis; Front row: Roger Grimshaw, Kerry Landman and James Sneyd.

John Dennis' visit to Australia was supported by AMSI, as the inaugural AMSI/ANZIAM Lecturer. In addition to attending ANZIAM 2006, John spent February visiting universities in Melbourne, Perth, Adelaide, Canberra, Brisbane and Sydney speaking on his research in the field of operations research. AMSI's generous support of the applied and industrial mathematics community is gratefully acknowledged.

The T.M. Cherry Prize for the best student talk was awarded to Chris Fricke of University of Melbourne, for his presentation on "Clique-based facets for the precedence constrained knapsack problem" [see next page]. In presenting this prize the high standard of all students talks was noted, with honourable mentions to David Cameron of Sydney University and Anna Cai, Ruth Luscombe, Maya Muthuswamy, Maya Ramakrishnan and Abbey Trewenack, all of University of Melbourne and Amanda Elvin of Massey University. The Cherry Ripe prize winners for this year for the best talk as judged by the students were Vicky Mak of Deakin University and James Sneyd for his most entertaining invited presentation.

As reported in the previous *Gazette*, the 2006 ANZIAM Medal for significant contributions over a career was awarded with unanimous acclaim to Professor Graeme Wake of Massey University and the 2006 J.H. Michell Medal for outstanding new researchers to Dr Sanjeeva Balasuriya, University of Sydney. A belated presentation of the ANZIAM Medal awarded 2 years previously was also made to Professor Roger Grimshaw.

Throughout the conference the weather remained warm and fine, and so the social side of the conference revolved around the pool, commencing with the traditional Sunday evening BBQ. On the Tuesday afternoon two trips were organised; the more adventurous on hikes up, down and around the



Chris Fricke is congratulated by Tim Marchant on receiving the 2006 T.M. Cherry Prize.

top of Mt Buller and for the more sedate, to Pizzini's winery in the King Valley for a marvellous lunch and then to Power's Look-out for a leisurely stroll. The conference dinner was held on Wednesday evening in the Alzburg Restaurant. The lack of an invited dinner speaker was more than made up for by impromptu speeches from two ANZIAM Medallists. After dinner entertainment to early in the morning was provided by the Rolf Koren Jazz Trio.

In addition to the major sponsorship of this conference by AMSI, we are appreciative of support from the MathWorks, Monash University School of Mathematical Sciences and University of Melbourne Department of Mathematics and Statistics.

From my perspective this conference was a great success, and thanks for their assistance in achieving this are due to the following people. To the conference committee, Vicky Mak, Kerry Landman, Terry Mills, Bernard Ee and, in particular, Christine Mangelsdorf. To Peter Taylor (Convenor, Invited speakers committee), Tim Marchant (Convenor, T.M. Cherry Prize committee) and Emily Duane (Convenor, Cherry Ripe prize) and to all the members of those committees. For technical support to Mark Fisher and Noam Olshina, and to odd-job man Michael Page. And finally, to Bill Summerfield for advice and support throughout the planning and running of this conference.