

ANZIAM 2010

The 46th Applied Mathematics Conference

Nicole Walters* and **Alex James****

The 46th annual ANZIAM Conference was held between 31 January and 4 February 2010 at the Rydges Hotel in Queenstown, New Zealand. The conference was attended by approximately 150 people including over 40 students from as far afield as Europe and the USA.

In total, 144 contributed talks were presented, including 41 given by students. The four parallel sessions included a dedicated SigmaOpt optimisation stream on Monday and Tuesday, and a Mathematical Biology stream for the duration of the conference. The contributed talks covered a wide range of topics in applied and industrial mathematics. This breadth of interest was also noticeable in the list of invited talks:

- Song-Ping Zhu (University of Wollongong), ‘Pricing financial derivatives with and without stochastic volatility’;
- Carlo Laing (Massey University), (2008 J.H. Michell medallist), ‘Spiral wave chimeras’;
- Lee White (University of South Australia), ‘Fluid motion in nano-films of hard disc lubricants’;
- Alan Champneys (University of Bristol), ‘Mathematical models for the active process of hearing in insects and mammals’;
- Matt Visser (Victoria University of Wellington), ‘Horava gravity’;
- Ruth Williams (University of California, San Diego), ‘Resource sharing in stochastic networks’;
- Antoinette Tordessillas (University of Melbourne), ‘The wonderment of the finger and d’Alembert’s dream’;
- Scott McCue (Queensland University of Technology) (2009 J.H. Michell medallist), ‘Hole-closing problems in fluid mechanics, heat conduction and mathematical biology’;
- Danny Ralph (University of Cambridge), ‘Risk averse investment in a perfect competition setting’.

Overall, there was an excellent standard presented in the invited and contributed talks, which was effectively communicated to the audience with a good level of enthusiasm. An interesting feature of the conference was the choice of session chairs.

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Bob Anderssen, Graeme Wake and Tim Marchant

Usual practice is to select the great and the good from amongst our esteemed colleagues to chair sessions. This year ANZIAM offered the chairing roles to the student delegates who took up the challenge with much enthusiasm.

The conference dinner was held at the Rydges Hotel on Wednesday evening. A highlight of the dinner was the presentation of awards to outstanding researchers in various stages of their careers. The ANZIAM medal, recognising research achievements in applied or industrial mathematics and contributions to ANZIAM, was awarded to Robert Anderssen (CSIRO). The recipient of the A.F. Pillow Applied Mathematics Top-up Scholarship, valued at \$10 000 per annum for up to three years, was Alexander Badran (University of Wollongong). The T.M. Cherry Prize for the best student presentation was won by Lewis Mitchell (University of Sydney). Larry Forbes (University of Tasmania) won the Cherry Ripe Prize for the best non-student talk. For an amusing history of the award, which is selected by the students, see <http://www.austms.org.au/Gazette/1995/Aug95/cherry.html>.



Alexander Badran



Lewis Mitchell

The sponsors of the meeting included the Australian Mathematical Society, ANZIAM, the University of Otago, the University of Canterbury, the Biomathematics Research Centre (at the University of Canterbury), HRS (Hoare Research Software), the Society for Industrial and Applied Mathematics (SIAM), and Taylor & Francis Group.

ANZIAM 2010 was a very social event and the organising committee couldn't have picked a better location — Queenstown is breathtaking. The views from the Remarkables Room were spectacular, although the curtains were soon closed — one suspects so that more attention was paid to the presentations, rather than the views! The weather was amazing, which helped



Larry Forbes

on Tuesday afternoon when attendees were free to enjoy the many activities on offer in Queenstown, both sedate and more extreme in nature! Many participants went hiking nearby — either stopping at the Skyline gondola or making it various distances towards the Ben Lomond peak (including those that went all the way to the top). Other activities included a boat trip and a winery tour.

The hard work of the local organising committee, Boris Baumer (co-chair), Alex James (co-chair), Misi Kovacs (treasurer), Carlo Laing, Mike Plank and Mick Roberts, resulted in a very successful and well-organised conference which was enjoyed by many. We also thank the many people who contributed to the smooth running of the event.