



News

Appointments

Edith Cowan University:

- Dr Sandra Pereira has been appointed to a three-year position as Lecturer A in Biostatistics.

La Trobe University:

- Dr Will Wright has been awarded a three-year New Zealand Science and Technology postdoctoral fellowship, taken up in the research group on dynamical systems and scientific computation.

Monash University:

- Prof. Robert Bartnik, FAA, has been appointed Professor of Pure Mathematics.
- Dr Richard Wardle has been appointed Lecturer in Atmospheric Science in the School of Mathematical Sciences.

University of Melbourne:

- Ms Emma Carberry has started a one year appointment as a Research Fellow.
- Mr Zaiping Lu has been appointed as a Research Fellow for 3 months.
- Mr Davaatseren Baatar started a 3 year appointment as a Research Fellow in September 2005.
- Dr Jorgen Rasmussen started a 2 year appointment as a Research Fellow in September 2005.

University of Sydney

- Prof. Neville Weber has been appointed to the Chair of Mathematical Statistics.

University of Wollongong:

- Dr Mark Nelson was promoted to Senior Lecturer from 1 January 2005.
- In July 2005, Dr Grant Cox and Dr James McCoy were appointed as Lecturers.
- Prof. Ray Chambers has been appointed as Professor of Statistical Methodology, to commence March 2006.

Completed PhDs

Monash University:

- Dr Truc Le, *Stochastic volatility models*, supervisor: Prof. Fima Klebanar.
- Dr Justin Freeman, *Stagnant lid convection*, supervisor: Dr Andrew Prentice.
- Dr Robert Goler, *The generation of cloud lines over Cape York Peninsula*, supervisor: Prof. Michael Reeder.

RMIT University:

- Dr Natthaphan Boonyanunta, *Improving the Predictive Power of Consumer Credit Classification Modeling*, supervisor: Dr Panlop Zeepongsekul.

- Dr Simon McNicol, *Traitor tracing using generalised Reed-Solomon codes and combinatorial designs*, supervisors: Dr Serdar Boztas and Dr Asha Rao.

University of Ballarat:

- Dr Rishat Baratov, *Conical Decompositions*, supervisors: Prof. A. Rubinov and Prof. S. Morris.
- Dr Long Jia, *Optimization in telecommunications*, supervisors: Prof. A. Rubinov and Dr A. Bagirov.
- Dr Michelle O'Brien, *Consumer doctor decision-making surrounding adverse drug reactions*, supervisors: Dr J. Yearwood and Dr J. Harvey.
- Dr Jiapu Zhang, *Derivative-free hybrid methods in global optimization and their applications*, supervisors: Dr A. Bagirov and Prof. A. Rubinov.

University of Melbourne:

- Dr Liam Merlot, *Techniques for academic timetabling*, Supervisors: Dr Natasha Boland, Dr Peter Stuckey and Dr Barry Hughes.

University of Sydney

- Dr Michael Kemp, *Geometric Seifert 4-manifolds with aspherical bases*, supervisor: Dr J.A. Hillman.
- Dr James Parkinson, *Buildings and Hecke Algebras*, supervisor: Dr Donald Cartwright.

University of Wollongong:

- Dr Frank Bierbrauer, *Mathematical modelling of water-droplet impact on hot galvanised steel surfaces*, supervisor: Dr S.P. Zhu.
- Dr Wei-Liang Wu, *Boundary element formulations for fracture mechanics problems*, supervisor: Dr X.P. Lu.
- Dr Ngamta Thamwattana, *Some analytical solutions for problems involving highly frictional granular materials*, supervisor: Prof. J. Hill.

Awards and other achievements

On 9 August 2005, 24 Australians were presented with Australian Museum Eureka Prizes. Three of these prizes involved mathematical work. Prof. Mark Burgman from the University of Melbourne's School of Botany has won the Botanic Gardens Trust Eureka Prize for Biodiversity Research, for his work in understanding uncertainty and improving decision-making by developing better statistical methods and tools for monitoring so that decisions based on collected data are more reliable.

Dr Antonio Reverter is the winner of the NSW Ministry for Science and Medial Research Eureka Prize for Bioinformatics Research. He has developed bioinformatics algorithms revealing key genes in cattle.

Dr James Franklin from the University of New South Wales has won the Australian Catholic University Eureka Prize for Research in Ethics. Franklin has applied his proposition, that the single core of ethics is the equality of worth of every individual person, to real-world mathematical topics.

Dr John Buckland (supervisors: Klaus Ecker and Maria Athanassas) was awarded one of ten 2004 Monash University, Mollie Holman Doctoral Medals for excellence in a PhD thesis.

Dr David Easdown has been awarded the 2005 University of Sydney College of Sciences and Technology Award for Excellence in Higher Degree Supervision.

Prof. Cheryl Praeger will be awarded Docteur Honoris Causa of the Université Libre Bruxelles on 12 November in Brussels, Belgium.

The 2005 Moyal Medallist is Bob Anderssen (CSIRO) who will deliver the Moyal Lecture entitled "Mathematics in Action" on Friday 28 October 2005. The Moyal Medal is awarded annually by Macquarie University for research contributions to mathematics, physics or statistics, the areas of research of the late Prof. Jose Enrique Moyal who was Professor of Mathematics at Macquarie University for five years from 1973 to 1977.

New Books

Jason Fulman, Peter M. Neumann and Cheryl E. Praeger, *A Generating Function Approach to the Enumeration of Matrices in Classical Groups over Finite Fields*, Memoirs of the American Mathematical Society, Number 830, Vol **176** (AMS Providence 2005).

Iain Raeburn, *Graph Algebras* (AMS Providence 2005), 113 pp., Softcover, ISBN 0-8218-3660-9.

AustMS Accreditation

The secretary has announced the accreditation of:

Mr Marc West, Redfern NSW, as an Accredited Member (MAustMS).

Conferences

The 7th Biennial Engineering Mathematics and Applications Conference

25–28 September 2005, RMIT University, Melbourne

Co-Chairs: Bill Blyth (School of Mathematical & Geospatial Sciences, RMIT University) and Liuping Wang (School of Electrical & Computer System Engineering, RMIT)

E-mail: emac2005@rmit.edu.au

Web: <http://www.ma.rmit.edu.au/emac2005/index.html>

23rd Victorian Algebra Conference

24–26 September 2005, The University of Western Australia

Web: <https://www.maths.uwa.edu.au/vac05>

Invited Speaker: Prof. Péter Pálffy (Eötvös University, Budapest)

The conference precedes the 49th Annual Meeting of the Australian Mathematical Society, also in Perth.

Miniconference on Functional Analysis — in honour of Simon Fitzpatrick

25–26 September 2005, The University of Western Australia

Organiser: Dr John Giles

E-mail: jan.garnsey@newcastle.edu.au

Web: https://www.maths.uwa.edu.au/~austms05/html/mc_fitzpatrick.html

49th Annual Meeting of the Australian Mathematical Society

27–30 September 2005, The University of Western Australia

Director: Prof. Lyle Noakes

E-mail: lyle@maths.uwa.edu.au

Web: <http://www.maths.uwa.edu.au/~austms05>

DELTA'05, Fifth Southern Hemisphere Symposium on Undergraduate Mathematics & Statistics Teaching & Learning

22–26 November 2005, Kingfisher Bay, Fraser Island, Queensland

Convenor: Dr Chris Harman

E-mail: harman@usq.edu.au

Web: <http://www.maths.uq.edu.au/delta05/>

8th International Conference of The Mathematics Education into the 21st Century Project: “Reform, Revolution and Paradigm Shifts in Mathematics Education”

25 November–1 December 2005, Johor Bharu, Malaysia

Contact: Dr Alan Rogerson

E-mail: arogerson@vsg.edu.au

Quantum Field Theory and its ramifications — in honour of Bob Delbourgo’s 65th birthday

30 November–2 December 2005, University of Tasmania

Convenor: Dr Peter Jarvis

E-mail: QFT.Fest@phys.utas.edu.au

Web: <http://www-theory.phys.utas.edu.au/theory/qftfest/index.html>

30th Australasian Conference in Combinatorial Mathematics and Combinatorial Computing (30ACCMCC)

5–9 December 2005, University of Queensland

Organisers: Elizabeth Billington (Director), Peter Adams, Darryn Bryant, Diane Donovan, Barbara Maenhaut, Victor Scharaschkin

Web: <http://www.maths.uq.edu.au/cdmc/30acmcc.html>

ICE-EM AMSI Summer School 2006

16 January–10 February 2006, RMIT University, Melbourne

Organisers: Prof. Kathy Horadam and Dr Lynne McArthur

E-mail: Kathy.Horadam@ems.rmit.edu.au

E-mail: Lynne.Mcarthur@ems.rmit.edu.au

Mathematics-in-Industry Study Group 2006

30 January–3 February 2006, Massey University, Albany, Auckland, New Zealand

Director: Prof. Graeme Wake

E-mail: g.c.wake@massey.ac.nz

Administrator: Nikki Luke

E-mail: n.luke@massey.ac.nz

Web: <http://misg2006.massey.ac.nz>

This meeting is being organised by the Centre for Mathematics in Industry. Grants are available on application for student participants. Industries wishing to present a problem, please contact the Director. The format will be similar to MISG2005, see the website and the Equation-Free Summaries.

Applied Mathematics Conference ANZIAM 2006

5–9 February 2006, Mansfield, Victoria

Director: Dr Simon Clarke

E-mail: anziam06@sci.monash.edu.au

Web: <http://www.maths.monash.edu.au/anziam06>

Recent Advances in Nonlinear Partial Differential Equations: A celebration of Norman Dancer's 60th birthday

16–21 July 2006, University of New England, Armidale, NSW

Organisers: Daniel Daners (USN), Yihong Du, Chris Radford, Shusen Yan (UNE).

E-mail: ydu@turing.une.edu.au

Web: <http://www.maths.usyd.edu.au/u/daners/une2006/>

Visiting mathematicians

Visitors are listed in the order of the last date of their visit and details of each visitor are presented in the following format: name of visitor; home institution; dates of visit; principal field of interest; principal host institution; contact for enquiries.

- Dr Karin Erdmann; Oxford; 10 September to 7 October 2005; Specht filtration multiplicities for Ariki-Koike algebras; USN; Dr A. Mathas
- Prof. Sergei Vostokov; St Petersburg; 26 September to 21 October 2005; Automorphic forms; USN; Dr K. Lai
- Dr Alexander Kitaev; Steklov Mathematical Institute; 1 August to 1 November 2005; Singularities; USN; Prof. Nalini Joshi
- Prof. Rajat Tandon; Hyderabad; 1 to 30 November 2005; Algebraic number theory; USN; Dr K. Lai
- Prof. Hans Munthe-Kaas; Norway; 18 October to 2 December 2005; –; LTU; Prof. Reinout Quispel
- Dr Antonella Zanna; Norway; 11 November to 2 December 2005; –; LTU; Prof. Reinout Quispel
- Dr Ken-ichi Maruno; Kyushu University; 21 September to 25 December 2005; –; LTU; Prof. Reinout Quispel
- Dr David Juher; Universitat de Girona, Spain; 6 September to 31 December 2005; –; UMB; –
- Prof. Kazem Mosaleheh; Shiraz University; 1 January to 31 December 2005; Analysis of PDEs; MNU; Dr Alan Pryde
- Dr David Mason; University of the Witwatersrand (South Africa); 1 October to 31 December 2005; –; UWA; Dr Des Hill/Dr Neville Fowkes
- Prof. Wenjun Yuan; Guangzhou University of China; December 2004 to December 2005; Differential equations and financial mathematics; CUT; Dr Yong Hong Wu
- Prof. John Ryan; University of Arkansas; August 2005 to December 2005; Analysis and Geometry; ANU; Prof. Alan McIntosh
- Prof. Graeme Milton; Utah; 30 September 2005 to 26 February 2006; Modelling of composite materials; USN; C. Macaskill
- Dr Hua Zhang; Yunnan Normal University; 1 March 2005 to 1 March 2006; –; UWA; Dr Cai Heng Li
- Dr Raimundo Araujo dos Santos; Sao Paulo; 10 February to 10 March 2006; Singularity Theory; USN; L. Paunescu
- Dr Mehdi Alaeiyan; Iran University of Science and Technology; 20 September 2005 to 19 March 2006; –; UMB; –
- Dr Bahman Tabatabaie Shourijeh; Shiraz University, Iran; 1 October 2005 to 1 April 2006; –; UMB; –
- Dr Christopher Tout; Institute of Astronomy, Cambridge, England; 3 August 2005 to 30 April 2006; Stellar Evolution; MNU; John Lattanzio
- Prof. Valentin V Petrov; Steklov Mathematical Institute; 7 January 2006 to 30 June 2006; Limit results and asymptotic methods; USN; Dr J. Robinson
- Dr Zhishui Hu; University of Science and Technology, China; 1 July 2005 to 30 June 2006; Limit theorems; USN; J. Robinson
- Dr Yuly Billig; Carlton University; 16 July 2005 to 16 July 2006; Quantum algebras; USN; Dr A.I. Molev

Prof. Peiwang Gao; Jinan University; 29 August 2005 to 31 July 2006; Financial Mathematics; UWG; Dr Songping Shu
Prof. Shigeyuki Hibi; National Defense Academy, Japan; 21 August 2005 to 29 August 2006; Particle Methods; MNU; Joe Monaghan