



# News

## Completed PhDs

### Monash University:

- Dr Wasyl Drosdowsky, *Intra-seasonal variability of Australian rainfall and the Australian summer monsoon*, supervisor: Michael Reeder.
- Dr Raymond Burston, *3 + 1 Perturbation Formalism for General Relativity*, supervisor: Anthony Lun.

### Swinburne University:

- Dr Tristan Barnett, *Mathematical modelling in hierarchical games with specific reference to tennis*, supervisors: Stephen Clarke and Alan Brown.

### University of Melbourne:

- Dr Yao-ban Chan, *Selected problems in lattice statistical mechanics*, supervisors: Tony Guttmann and Andrew Rechnitzer
- Dr Damian Heard, *Computation of hyperbolic structure on 3-dimensional orbifolds*, supervisor: Craig Hodgson
- Dr Sally Kuhlmann, *Geodesic knots in hyperbolic 3-manifolds*, supervisor: Craig Hodgson
- Dr Stuart Walsh, *A thermomechanical approach for micomechanical continuum models of granular media*, supervisor: Antoinette Tordesillas

### University of Sydney:

- Dr Faisal Ababneh, *Models and estimation for phylogenetic trees*, supervisor: John Robinson.
- Dr James East, *On monoids related to braid groups and transformation semigroups*, supervisor: David Easdown.
- Dr Hai Trung Ho, *On Hilbert modular forms*, supervisor: King Lai.
- Dr Krishnasamy Muraleedaran, *Investigation of normalizers of parabolic subgroups of irreducible unitary reflection groups*, supervisor: Don Taylor.
- Dr Benjamin Smith, *Explicit endomorphisms and correspondences*, supervisor: David Kohel.

### University of Western Australia:

- Dr Sophie Ambrose, *Matrix Groups: Theory, Algorithms and Applications*, supervisors: Cheryl Praeger, Alice Niemeyer and Csaba Schneider
  - Dr Jing Xu, *On closures of finite permutation groups*, supervisors: Cheryl Praeger, Cai Heng Li and Michael Giudici
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## Appointments

### Monash University:

- Professor John Lattanzio has been promoted to Professor of Astrophysics.
- Dr Boris Miller has been appointed as Senior Lecturer in Statistics and Probability.
- Dr Penzio Miao has been appointed as Lecturer in Pure Mathematics.

### University of Melbourne:

- Dr Guoqi Qian has been appointed as Senior Lecturer in Statistics.

### University of Southern Queensland:

- Dr Chris Harman has retired after many years at USQ where he served as the Head of Department of Mathematics and Computing and the Mathematics Coordinator for several terms. In recognition of his contribution to the development and promotion of the Mathematics Discipline at USQ Associate Professor Chris Harman has been appointed the Honorary Associate Professor at the Department of Mathematics and Computing at USQ.

### University of Western Australia:

- Dr Berwin Turlach has been promoted to Senior Lecturer.

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## Peter Kloeden wins W. T. and Idalia Reid Prize

Professor Peter Kloeden, a member of the Society, presently working at the University of Frankfurt, will be the 2006 recipient of the W. T. and Idalia Reid Prize, awarded by SIAM. The Prize, which was established in 1985 to recognise outstanding contributions to differential equations, control theory and related fields, will be conferred at the 2006 SIAM Annual Meeting in Boston on 11th July. Previous recipients include Wendell H. Fleming and Jacques-Louis Lions. The prize includes an engraved medal, a cash prize of USD 10,000, and an all-expenses-paid trip to Boston to receive this honour. Peter had posts at Murdoch University and Deakin University before he left in the late 90s to work in Germany. He was the Director of the 1997 ANZIAM meeting, held in Lorne.

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## Conferences

### Workshop on Differential Geometry & Applications

13–16 June 2006, La Trobe University, Bundoora (Victoria)

Organisers: Geoff Prince (LTU) and Peter Vassiliou (UCB)

*E-mail:* [G.Prince@latrobe.edu.au](mailto:G.Prince@latrobe.edu.au), [Peter.Vassiliou@canberra.edu.au](mailto:Peter.Vassiliou@canberra.edu.au)

*Web:* [http://www.latrobe.edu.au/mathstats/math/conferences/workshop\\_difgeometry\\_06](http://www.latrobe.edu.au/mathstats/math/conferences/workshop_difgeometry_06)

**2006 International Conference on Time Series Econometrics, Finance and Risk**

29 June–1 July 2006, University of Western Australia, Perth

Web: <http://www.tsefarperth.org>

**The 8th Australasian Conference on Mathematics and Computers in Sport**

3–5 July, 2006, Greenmount Resort, Coolangatta, Queensland

Organisers: John Hammond (SCU) and Neville de Mestre (Bond)

E-mail: [jhammond@scu.edu.au](mailto:jhammond@scu.edu.au)

Web: <http://www.anziam.org.au/MathSport/8M&CS.html>

**31st Australasian Conference on Combinatorial Mathematics and Combinatorial Computing (31ACCMCC)**

8–12 July 2006, Alice Springs, Northern Territory

Enquiries: Ian Roberts

E-mail: [Ian.Roberts@cdu.edu.au](mailto:Ian.Roberts@cdu.edu.au)

Web: <http://www.cdu.edu.au/engineering/31ACCMCC.html>

Invited speakers:

Sergei Bezrukov - University of Wisconsin

Charlie Colbourn - Arizona State University

Gyula O. H. Katona - Renyi Institute

Barbara Maenhaut - University of Queensland

Gordon Royle - University of Western Australia

Jozef Siran - University of Auckland

Billy Duckworth - Australian National University

Kathy Horadam - RMIT

Neil J.A. Sloane - AT&T Shannon Lab

Contributed talks in all areas of combinatorics are welcome. Participants are also invited to stay on for *Dry and Discrete* (see announcement below)

**Dry and Discrete (D&D)**

13–15 July 2006, Uluru, and 16–18 July 2006, King's Canyon, Northern Territory

Enquiries: Ian Roberts

E-mail: [Ian.Roberts@cdu.edu.au](mailto:Ian.Roberts@cdu.edu.au)

Web: <http://www.cdu.edu.au/engineering/DandD.html>

This workshop will be aimed at cracking some unsolved problems in Graphs, Hypergraphs and Designs.

**17th Australasian Workshop on Combinatorial Algorithms (AWOCA 2006)**

13–19 July 2006, Uluru and King's Canyon, Northern Territory

Organisers: Mirka Miller & Joe Ryan (Ballarat), Ian Roberts (CDU) and Ian Wanless (Monash)

E-mail: [Ian.Roberts@cdu.edu.au](mailto:Ian.Roberts@cdu.edu.au)

Web: <http://www.ballarat.edu.au/conferences/awoca2006/>

This workshop will run parallel to Dry and Discrete, to allow people to participate in both should they be interested in doing so.

### 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 and Shusen Yan (UNE).  
*E-mail:* [ydu@turing.une.edu.au](mailto:ydu@turing.une.edu.au)  
*Web:* <http://www.maths.usyd.edu.au/u/daners/une2006/>

### 50th Annual Meeting of the Australian Mathematical Society

25–29 September 2006, Macquarie University, Sydney  
Director: William Chen  
Enquiries: William Chen, Xuan Duong and Ross Street  
*E-mail:* [wchen@maths.mq.edu.au](mailto:wchen@maths.mq.edu.au), [duong@maths.mq.edu.au](mailto:duong@maths.mq.edu.au),  
[street@maths.mq.edu.au](mailto:street@maths.mq.edu.au)  
*Web:* <http://www.maths.mq.edu.au/austms06/>

The 50th Annual Meeting of the Australian Mathematical Society will take place at Macquarie University in the last week of September 2006. For this landmark Annual Meeting of the Society, the academic program will span five working days instead of the usual four for most Annual Meetings. The first session of the meeting will start at 9 am on Monday 25 September, and the last session will end at approximately 3 pm on Friday 29 September.

Invited plenary speakers:

Pascal Auscher - Université de Paris-Sud  
Robert Bartnik - Monash University  
Michael Batanin - Macquarie University  
Steven Evans - University of California at Berkeley  
Peter Forrester - University of Melbourne  
Andrew Hassell - Australian National University  
Frank de Hoog - Commonwealth Scientific and Industrial Organization  
Adrian Lewis - Cornell University  
Ngaiming Mok - University of Hong Kong  
Christopher Skinner - University of Michigan  
Terence Tao - University of California at Los Angeles  
Katrin Tent - Universität Bielefeld  
Claire Voisin - Centre National de la Recherche Scientifique  
Xu-Jia Wang - Australian National University

There will be special sessions in the following areas: Algebraic Geometry, Category Theory, Combinatorics and Geometry, Differential Geometry, Functional Analysis, Future Impact of Applications on Mathematics, Geometry and Topology, Group Theory, Harmonic Analysis, Mathematical Physics, Number Theory, Partial Differential Equations, Probability and Statistics, Representation Theory, Variational Analysis and Optimization.

The B H Neumann Prize will be awarded to the eligible student who gives the best presentation at the meeting.

For further details of the academic program, registration, accommodation and financial support for research students, please visit the conference website.

**5th Ballarat workshop on Global and Non-Smooth Optimization: Theory, Methods and Applications**

4–5 December 2006, University of Ballarat, Victoria

Conference Co-ordinator: Maxine Kingston

Enquiries: Maxine Kingston, Adil Bagirov

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*Web:* <http://www.ballarat.edu.au/ard/itms/CIAO/Workshops/OTMA3.shtml>

This workshop aims at bringing together experts from Australia, the Pacific region and around the world in the area of optimization theory, methods and applications to meet and exchange their recent research findings and to discuss possible joint projects.

The topics of the workshop include all areas of optimization, optimal control and their applications, however the emphasis of this workshop is on theory, numerical methods and applications of global and non-smooth optimization.

Workshop organizers are Dr Adil Bagirov and Professor Alexander Rubinov.

### 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 Yanming Wang; Zhong shan University; 10 May to 31 May 2006; –; UWA; Song Wang  
 Dr Kris Wysocki; Pennsylvania State University; 22 May to 6 June 2006; –; UMB;  
 Prof. Jon Carlson; University of Georgia; 15 May to 12 June 2006; Computational tools for constructive module theory; USN; J.J. Cannon  
 Prof. Zhengyan Lin; Zhejiang University; 13 March to 12 June 2006; Asymptotic Theory in Probability and Statistics; UWA; Jiti Gao  
 Prof. Valentin V Petrov; Steklov Mathematical Institute; 7 January 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  
 Kim Lund Larsen; Aarhus University Denmark; 24 January to 1 July 2006; Analytic Number Theory; MQU; Prof. W. Chen  
 Prof. Dag Tjøstheim; University of Bergen, Norway; 26 June to 2 July 2006; Nonlinear and non-stationary time series; UWA; Jiti Gao  
 Prof. Lynne Billard; University of Georgia; 6 June to 4 July 2006; –; UMB;  
 Prof. Xiao Zhang; Academy of Mathematics and System Sciences; 5 February to 10 July 2006; Representation theory of supersymmetry algebras in de Sitter spacetime; USN; R. Zhang  
 Dr George Hanson; University of Wisconsin-Milwaukee; 21 May to 14 July 2006; Mathematical modeling of electromagnetic interactions in nanostructures; MQU; V. Benning  
 Dr Yuly Billig; Carlton University; 16 July 2005 to 16 July 2006; Quantum algebras; USN; Dr A.I. Molev  
 Dr Rognvaldur Moller; University of Iceland; 16 July to 23 July 2006; –; Cheryl Praeger  
 Prof. Peiwang Gao; Jinan University; 29 August 2005 to 31 July 2006; Financial Mathematics; UWG; Dr Songping Shu  
 Prof. Mikael Passare; University of Stockholm; July 2006; Algebraic geometry; UNE; G. Schmalz  
 Prof. Biswa Datta; Northern Illinois University; 24 July to 4 August 2006; –; UWA; Song Wang  
 Prof. Thomas Bartsch; Universität Gießen; 22 July to 10 August 2006; Variational Methods for Elliptic Partial Differential Equations; USN; E.N. Dancer  
 Dr Raimundos Vidunas; Fukuoka University; 15 May to 15 August 2006; Painlevé equations and special functions; USN; N. Joshi  
 Dr Philippe Cara; Vrije Universiteit Brussels; 10 July to 15 August 2006; –; UWA; Cheryl Praeger  
 Prof. Stephan Morgenthaler; Swiss Federal Institute of Technology; 17 July to 18 August 2006; –; UMB;  
 Prof. Ronald Warren Butler; Colorado State University; 1 June to 20 August 2006; Saddle-point approximations in statistics; USN; J. Robinson  
 Dr Shiqing Ling; Hong Kong University of Science and Technology; 26 June to 25 August 2006; Time Series Econometrics; UWA; Jiti Gao  
 Prof Shigeyuki Hibbi; National Defense Academy, Japan; 21 to 29 August 2006; Fluid dynamics of sloshing tanks; MNU; Prof. Joseph Monaghan

- Dr Paul Yip; University of Hong Kong; 1 July to 31 August 2006; –; UMB;
- Dr Xiang-Gui Li; Beijing Information Technology Institute; 1 July to 31 August 2006; –; UWA; Song Wang
- Dr Mohammadali Iranmanesh; Yazd University; 15 July to 1 September 2006; –; UWA; Cheryl Praeger
- Prof. Jun Hu; Beijing Institute; 5 August to 5 September 2006; Hecke Algebras; USN; A.P. Mathas
- Prof. Ruth J. Williams; University of California; 25 August to 13 September 2006; –; UMB;
- Dr Satoshi Koike; –; 1 August to 29 September 2006; Equisingularity problems; USN; L. Paunescu
- Dr Bartosz Trojan; Université d’Orleans; 28 July to 29 September 2006; Lattice subgroups of  $p$ -adic groups; USN; D.I. Cartwright
- Dr Robert Coquereaux; Centre International de Rencontre Mathematiques (CIRM); 20 July to 30 September 2006; Theoretical Physics, Non-Commutative Geometry, Monoidal Categories; MQU; V. Benning
- Dr Lenny Jones; Shippensburg University, Pennsylvania; 23 September to 5 November 2006; Hecke algebras, number theory; UWS; A. Francis
- Prof. Dan Schafer; Oregon State University; 1 February to 31 December 2006; –; UWA; Dr Berwin Turlach
- Dr Alex Kitaev; Steklov Institute; 5 April to 5 August 2006 and 7 September to 31 December 2006; Singularities; USN; N. Joshi
- Dr Jesse Johnson; University of California Davis; 1 August to 31 December 2006; –; UMB;
- Dr Damien Stehle; French Ministry of Education; 29 January 2006 to 28 January 2007; Lattice reduction; USN; J.J. Cannon
- Prof. Buyung-Moo Kim; Chungju National; 31 July 2006 to 31 July 2007; Integral Theory; USN; D.E. Taylor