



# News

## Completed PhDs

### Flinders University:

- Dr Jalina Widjaja, *Logistic equations with diffusion, delay and impulses*, supervisor: Murk J. Bottema.

### University of Ballarat:

- Dr Glenn Auld, *Computer assisted language learning*, supervisors: P. Smith and L. Angus.
- Dr Jason Giri, *Constructing non-linear analogues of Lagrange functions for minimisation problems of one constraint*, supervisor: A. Rubinov.
- Dr Kiki Ariyanti Sugeng, *Magic and antimagic graph labeling*, supervisor: M. Miller.

### University of Melbourne:

- Dr Julie Cain, *Random graph processes and optimisation*, supervisor: H. Rubinstein.
- Dr Christopher Green, *Dynamic effects in atomic force microscopy*, supervisor: J. Sader.

### University of Sydney:

- Dr Alistair Merrifield, *An investigation of mathematical models for animal group movement using classical and statistical approaches*, supervisor: M. Myerscough.

---

## Appointments

### University of Melbourne

- Prof. Greg Hjorth has been appointed as an ARC Professorial Fellow in the Department of Mathematics and Statistics.
- Dr Hongwen Guo has been appointed as a Research Fellow in the Department of Mathematics and Statistics.

### University of Sydney

- Mrs Mary Phipps has recently retired.
- Dr Sanjiban Santra, Dr Whyne Padden, Dr Ramon Xulvi-Brunet, Dr Chris Field and Dr Andrew Docherty have all recently commenced work as research associates at Sydney University.
- Dr Sanjeeva Balasuriya has left to take up an appointment in the USA.

---

## New Books

E. Seneta, (University of Sydney) *Non-negative Matrices and Markov Chains*, (2nd ed.) (Springer New York 2006).

## Conferences

### Algebraic Attacks on Stream Ciphers

25–26 September 2006, Deakin University, VIC  
Organiser: Lynn Batten  
*E-mail:* [lmbatten@deakin.edu.au](mailto:lmbatten@deakin.edu.au)

### Workshop on Stochastics and Symposium on Financial Mathematics

25–28 September 2006, Australian Mathematical Sciences Institute Headquarters,  
University of Melbourne, VIC  
Organiser: Fima Klebaner  
*E-mail:* [fima.klebaner@sci.monash.edu.au](mailto:fima.klebaner@sci.monash.edu.au)

### 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.

#### **Mathematical Formulation of Micro and Macro Thermodynamics**

10 October 2006, Australian Mathematical Sciences Institute Headquarters, University of Melbourne, VIC

Organiser: Eric Hu

*Web:* [http://www.deakin.edu.au/scitech/et/news\\_events/AMSI.php](http://www.deakin.edu.au/scitech/et/news_events/AMSI.php)

#### **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 and Adil Bagirov

*E-mail:* [m.kingston@ballarat.edu.au](mailto:m.kingston@ballarat.edu.au), [a.bagirov@ballarat.edu.au](mailto:a.bagirov@ballarat.edu.au)

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

#### **Summer School and Workshop on Granular Materials**

4–8 December 2006, Australian National University, Canberra, VIC

Organisers: Peter Arnold

*Web:* <http://www.rspysse.anu.edu.au/granularmatter/committee.php>

#### **8th Pacific Rim Geometry Conference**

11–15 December 2006, Murramarang, South Durras, NSW

Organisers: Ben Andrews, Alan Carey, Alexander Isaev, Neil Trudinger and Xu-Jia Wang

*E-mail:* [Ben.Andrews@anu.edu.au](mailto:Ben.Andrews@anu.edu.au)

#### **Amenability of Groups and Algebras**

4–8 January 2007, Australian National University, Canberra, ACT

Organizers: H.G. Dales, A. Kepert, R.J. Loy and G.A. Willis

*Web:* <http://www.maths.anu.edu.au/aga07/aga.html>

#### **From Statistical Mechanics to Conformal and Quantum Field Theory (a Special Theme Program)**

8 January–8 February 2007, Australian Mathematical Sciences Institute Headquarters, University of Melbourne, VIC

Organisers: Paul Pearce (Australia), Giuseppe Mussardo (Italy) and Chaiho Rim (Korea)

*Web:* <http://mac0916.ms.unimelb.edu.au/~pap/StatMechFieldTheory2007/>

### Mathematics in Industry Study Group

5–9 February 2007, University of Wollongong, Wollongong Campus, NSW.  
 Organisers: Maureen Edwards and Tim Marchant  
*E-mail:* [maureen.edwards@uow.edu.au](mailto:maureen.edwards@uow.edu.au)

### ANZIAM 2007 Conference: The 43rd Applied Mathematics Conference and the first WA Branch of Australian Statistical Society Statistics Day

28 January–1 February 2007 (Statistics Day: 29 Jan), Esplanade Hotel, Fremantle, Western Australia  
 Conference Co-ordinator: Graeme Hocking.  
 Enquiries: Graeme Hocking, Duncan Farrow, Marty Firth (for Statistics Day)  
*E-mail:* [G.Hocking@murdoch.edu.au](mailto:G.Hocking@murdoch.edu.au), [D.Farrow@murdoch.edu.au](mailto:D.Farrow@murdoch.edu.au),  
[martyf@ichr.uwa.edu.au](mailto:martyf@ichr.uwa.edu.au).  
*Web:* <http://www.anziam07.murdoch.edu.au>

Invited speakers are:

Adrian Baddeley - University of Western Australia  
 Nigel Bean - University of Adelaide  
 Peter Clarkson - University of Kent, UK  
 Phil Howlett - University of South Australia  
 Ian James - Murdoch University  
 Greg Kriegsmann - New Jersey Institute of Technology  
 Mark M. Meerschaert - The University of Otago, NZ  
 Hinke Osinga - University of Bristol, UK  
 Graeme Wake - Massey University, NZ

### GL07 Geometry and Lie Theory: A conference marking Gus Lehrer's 60th birthday

First week: 2–6 July 2007, Australian National University, Canberra.  
 Second week: 9–13 July 2007, University of Sydney, NSW  
 Organisers: James Borger, Peter Bouwknegt, Anthony Henderson, Bob Howlett, Amnon Neeman and Anderw Mathas.  
*Web:* <http://www.maths.usyd.edu.au/u/SemConf/lehrerfest.html>

---

### 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.

Mr Sergei Haller; Justus-Liebig-Universität; 16 January to 10 October 2006; Algorithmic methods for Lie groups; USN; S Murray

- Prof. Wolfgang Arendt; Universität Ulm; 20 August to 20 October 2006; Elliptic partial differential equations; USN; D. Daners
- Prof. Yuri Borovskikh; Steklov Mathematical Institute; 1 August to 30 October 2006; Asymptotic results for U-statistics; USN; J. Robinson
- Dr Supawat Rungsuriyawiboon; Chiang Mai University; 1 May to 31 October 2006; –; UWA; Prof. Jiti Gao
- Shenglin Zhou; Shantou University; October 2004 to October 2006; UWA; Prof. Cheryl Praeger
- Prof. Guenter Last; University of Karlsruhe; 27 October to 1 November 2006; –; UWA; Prof. Adrian Baddeley
- Dr Lenny Jones; Shippensburg University, Pennsylvania; 23 September to 5 November 2006; Hecke algebras, number theory; UWS; A. Francis
- Dr Colva Mary Roney–Dougal; University of St. Andrews; 13 November to 1 December 2006; Algorithms for groups and Lie groups; USN; J.J. Cannon
- Dr Alex Kitaev; Steklov Institute; 11 August to 6 December 2006; Singularities and integrable systems; USN; N. Joshi
- Prof. Dan Schafer; Oregon State University; 1 February to 31 December 2006; –; UWA; Dr Berwin Turlach
- Dr Duncan Farrow; Murdoch University; July to December 2006; –; UWA; Prof. Andrew Bassom
- Dr Jesse Johnson; University of California Davis; 1 August to 31 December 2006; –; UMB;
- Dr Paul Hammerton; University of East Anglia; September to December 2006; –; UWA; Prof. Andrew Bassom
- Dr Zheng-Xue Tang; Deakin University; 1 January 2005 to 31 December 2006; Computer simulation of textile yarn spinning; USN; W.B. Fraser
- Prof. Dan Schafer; Oregon State University; 1 February to 31 December 2006; –; UWA; Dr Berwin Turlach
- Mr Danker Adriaan Roozmond; Eindhoven University; 30 April to 31 December 2006; Algorithms for Lie Theory; USN; J.J. Cannon
- Dr Damien Stehle; French Ministry of Education; 29 January 2006 to 28 January 2007; Lattice reduction; USN; J.J. Cannon
- Mrs Horanage Chandrika Fernando; Sri Lanka Institute of Information Technology; 1 July 2006 to 31 January 2007; –; UMB; –;
- Frederick Vercauteren; Catholic University Leuven; 2 September 2006 to 28 February 2007; Number Theory and Cryptography; USN; J.J. Cannon
- Dominic Schuhmacher; University of Zurich; 1 April 2006 to 31 March 2007; –; UWA; Prof. Adrian Baddeley
- Mr Sergei Haller; Justus-Liebig-Universität, Gießen; 16 January 2006 to 11 May 2007; Algorithmic methods for Lie groups; USN; S. Murray
- Prof. Buyung-Moo Kim; Chungju National; 31 July 2006 to 31 July 2007; Integral Theory; USN; D.E. Taylor
- Prof. Nicholas Fisher; International Statistics Institute; 1 September 2004 to 31 August 2007; Statistics; J. Robinson
- Prof. Richard Cowan; University of Sydney; 1 January 2005 to 31 December 2007; Stochastic models; USN; J. Robinson
- Dr Youyun Li; Hunan Changsha University; 1 May 2006 to 1 May 2008; –; UWA; Dr Song Wang