



News

Completed PhDs

University of Melbourne:

- Dr James Coffey, *3-Manifolds built from injective handlebodies*, Supervisors: Prof. Hyam Rubinstein and Dr Iain Aithchison
- Dr Jason Looker, *The electrokinetics of porous colloidal particles*, Supervisor: Dr Steve Carnie
- Dr Kevin Prendergast *Steiner ratio for gradient constrained networks*, Supervisor: Prof. Hyam Rubinstein

University of Queensland:

- Dr Olena Kravchuk, *Trigonometric scores rank procedure with application to long-tailed distributions*, supervisor: Prof. Phil K. Pollet

Awards and other achievements

Dr John Michael Mack of the University of Sydney has been made a Member of the Order of Australia. He was awarded this honour for service to mathematics education, particularly in the area of curriculum development, to the arts and to a range of academic professional organisations.

Appointments

University of New England:

- Dr Gary Bunting accepted a redundancy package in April, after being served with notice of retrenchment.
- Drs Bea Bleile and Imi Bokor were also served notices of retrenchment. They have sought a review.

University of Queensland:

- Dr Yao-Zhong Zhang of Mathematics has been promoted to Associate Professor.

University of Southern Queensland:

- Dr Oleksiy Yevdokimov has been appointed as Lecturer in Mathematics Education in the Department of Mathematics and Computing.

Conferences

The 8th Australasian Conference on Mathematics and Computers in Sport

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

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

E-mail: 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, NT

Enquiries: Ian Roberts

E-mail: Ian.Roberts@cdu.edu.au

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

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

More Details on the QRT Map as an Automorphism of a Rational Elliptic Surface (a workshop following the conference, “Symmetries and Integrability of Difference Equations [SIDE] VII”)

10–14 July 2006, Mathematical Sciences Institute Headquarters, University of Melbourne, VIC

Organisers: John Roberts and Wolfgang Schief

Web: <http://web.maths.unsw.edu.au/~schief/side/side.html>

Dry and Discrete

13–15 July 2006, Uluru, and 16–18 July 2006, King’s Canyon, NT

Enquiries: Ian Roberts

E-mail: 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

Workshop on Differential Geometry and Applications

13–16 July 2006, La Trobe University, VIC

Organisers: Geoff Prince and Peter Vassiliou

Web: http://www.latrobe.edu.au/mathstats/maths/conferences/workshop_difgeometry_06/index.html

Mathematics of String Theory 2006

13–23 July 2006, Australian National University, ACT

Organisers: Peter Bouwknegt, Omar Foda and Mathai Varghese

Web: <http://tpsrv.anu.edu.au/Members/bouwknegt/MOST06>

17th Australasian Workshop on Combinatorial Algorithms (AWOCA 2006)

13–19 July 2006, Uluru and King’s Canyon, NT

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

E-mail: 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

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

Conference of the Society for Risk Analysis

17–19 July 2006, Australian Mathematical Sciences Institute Headquarters, University of Melbourne, VIC

Web: <http://www.amsi.org.au/pdfs/2006SRA.pdf>

Inaugural Queensland Brain Institute Workshop on Mathematical and Computational Neuroscience

13–14 August 2006, Hillstone St Lucia, Brisbane, QLD

Organisers: The Queensland Brain Institute, The Australian Mathematical Sciences Institute and Network: Computation in neural Systems

E-mail: s.doig@uq.edu.au

Web: <http://public.qbi.uq.edu.au/cnw>

Algebraic Attacks on Stream Ciphers

25–26 August 2006, Deakin University, VIC

Organiser: Lynn Batten

E-mail: 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

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

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, duong@maths.mq.edu.au,
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

Special sessions: 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

28–30 November 2006, University of Ballarat, VIC

Conference Co-ordinator: Maxine Kingston

Enquiries: Maxine Kingston, Adil Bagirov

E-mail: m.kingston@ballarat.edu.au, a.bagirov@ballarat.edu.au

Web: <http://www.ballarat.edu.au/ard/itms/CIA0/Workshops/OTMA3.shtml>

Summer School and Workshop on Granular Materials

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

Organisers: Peter Arnold and 20 others

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

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

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.

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 James Parkinson; Sydney; 1 March to 14 July 2006; Affine buildings and Hecke algebras; USN; R.B. Howlett

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 Shusen Yan; University of New England; 19 June to 16 July 2006; Partial differential equations; USN; E.N. Dancer

Prof Hans Dundersen; Aarhus University; 16 June to 21 July 2006; –; UWA; Prof Adrian Baddeley

- Prof Kenji Kajiwara; –; 16 to 22 July 2006; Painleve equations; USN; N. Joshi N
- Prof Jarmo Hietarinta; University of Turku; 3 to 22 July 2006; Discrete Painleve equations; USN; N. Joshi
- Prof Frank W Nijhoff; University of Leeds; 15 to 22 July 2006; Discrete Painleve equations; USN; N. Joshi N
- Prof Danielle Hilhorst; Université Paris-Sud; 8 to 23 July 2006; Singular Perturbation; USN; E.N. Dancer
- Dr Rognvaldur Moller; University of Iceland; 16 July to 23 July 2006; –; Cheryl Praeger
- Prof Claude-Michel Viallet; Université Pierre et Marie Curie; 19 to 28 July 06; Discrete Painleve equations; USN; N. Joshi
- 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 Slawomir Rybicki; Nicolas Copernicus University; 8 to 31 July 2006; Bifurcation Theory; USN; E.N. Dancer
- Prof Herbert Amann; –; 12 July to 4 August 2006; Linear and non linear parabolic differential equations; USN; E.N. Dancer
- 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
- Mr John Voight; University of California; 15 August 2005 to 15 August 2006; Computational Arithmetic Geometry; USN; J.J. Cannon
- 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;
- Dr Ciprian Coman; University of Glasgow, 17 July to 19 August 2006; –; UWA; Prof Andrew Bassom
- 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
- Dr Khurram Wadee; University of Exeter; 25 July to 29 August 2006; –; UWA; Prof Andrew Bassom
- 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; Dr Song Wang
- Mr Degui Li; Zhejiang University; 1 July to 31 August 2006; –; UWA; Prof Jiti Gao
- 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 Tim Dokchitser; Robinson College; 17 July to 18 September 2006; Computational Number theory; USN; J.J. Cannon
- 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
- Prof Gregor Kemper; Technical University Munich; 11 to 29 September 2006; invariant theory; USN; J.J. Cannon
- 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
- Mr Sergei Haller; Justus-Liebig-Universität; 16 January to 10 October 2006; Algorithmic methods for Lie groups; USN; S Murray
- 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
- 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 Alex Kitaev; Steklov Institute; 5 April to 5 August 2006 and 7 September to 31 December 2006; Singularities; USN; N. Joshi
- Dr Zheng-Xue Tang; Deakin University; 1 January 2005 to 31 December 2006; Computer simulation of textile yarn spinning; USN; W.B. Fraser
- 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; 1 July 2006 to 31 January 2007; Sri Lanka Institute of Information Technology; –; UMB; –;
- Dominic Schuhmacher; University of Zurich; 1 April 2006 to 31 March 2007; –; UWA; Prof Adrian Baddeley
- 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; A/Prof Song Wang