

NEWSLETTER

Department of Mathematics & Statistics

Issue No. 20/03

Friday, 21 November 2003

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PUBLICATIONS ACCEPTED

Shah, A.A. and Wake, G.C., The existence of steady states to a combustion model with internal heating, *Nonlinear Analysis: Real World Applications*, accepted November 2003.

Graeme Wake

W. Hordijk, and M. Steel. Detecting autocatalytic, self-sustaining sets in chemical reaction systems. *Journal of Theoretical Biology*.

M. Steel and D. Penny. Two further links between MP and ML under the Poisson Model. *Applied Mathematics Letters*.

D. Huson and M. Steel. Distances that perfectly mislead. *Systematic Biology*.

Mike Steel

N. Suzuki and N.A. Watson, "Mean value densities for temperatures", *Colloq. Math.* (to appear).

Neil Watson

PUBLICATIONS APPEARED

Wake, G.C., Soboleva, T.K. and Pleasants, A.B. The evolution of a truncated Gaussian probability density through time modelling animal liveweights after selection,

Mathematical and Computer Modelling, Vol.38, Nos. 11/13, 2003, pp 1461-68.

(This was from the Proceedings of the "Faddy workshop", held in September 1999, here in Christchurch).

Shaw, G.M., Chase, J.G., Rudge, A.D., Wake, G.C., Starfinger, C., Lam, Z., Lee, D., Greenfield, K. and Dove, R.) "Rethinking Sedation and Agitation Management in Critical Illness," *Critical Care and Resuscitation*, Vol. 5, 2003 pp. 109-120 (invited special review).

Graeme Wake

NEW DEPARTMENT RESEARCH REPORT

Report Number UCDMS 2003/21

Title: Reassessing Accuracy Rates from Median Decision Procedures

Authors: Andrea Capotorti and Frank Lad.

Frank Lad

CMRF GRANT

Geoff Chase (Mechanical Engineering), Geoff Shaw (CDHB) and Dominic Lee have received a CMRF grant for "Clinical Trial Verification of a Patient Agitation Sensing System".

Dominic Lee

RESEARCH GRANT ALLOCATIONS

Grants from the departmental research budget have been awarded to:

1. Jennifer Brown (student support for a summer project; small funding request)
2. Graeme Wake and David Wall (student support for a summer project; moderate funding request)
3. Mark Hickman (funds towards airfare and registration at ANZIAM 2004 conference in Hobart in Feb. 2004; small funding request)

Mike Steel

CONGRATULATIONS

Congratulations to Charles Semple on his award from the NZ Royal Society of its annual "Hamilton Memorial Prize".

Mike Steel

Congratulations to Mike Steel on becoming a Fellow of the Royal Society of New Zealand, in recognition of his research contributions.

Graeme Wake

Congratulations to Leigh Davidson for completing her ICDL (International Computer Driving Licence) - a major achievement. Well done.

David Wall

SPECIAL EVENT

Southern Industrial Applied Mathematics (SIAM) Day

This is an informal one-day meeting to provide an opportunity for mathematicians and industrial personnel to meet, exchange ideas, and provide an opportunity for mutual benefit.

Anticipating the hosting of the (ANZIAM) Mathematics-in-Industry Study Groups (MISG) in New Zealand from 2004, <http://misg2004.massey.ac.nz>, the Centre for Mathematics in Industry at Massey University in Albany is supporting small preliminary regional meetings. The South Island meeting (SIAM Day) is being held in partnership with Canesis Network Ltd. All are welcome to attend. Representatives from all South Island Universities, plus some non-mainlanders will be there:

Date: Thursday 4 December 2003,

Time: 9.30-5.00pm

Venue: Canesis Network Ltd (previously WRONZ)

Cnr. Gerald Street and Springs Road (20 km south of Christchurch)

There is no charge for attendance.

RSVP to Christine Easter asap: easter@canesis.com

Graeme Wake

DEPARTMENTAL VISITORS

We welcome to the department Emeritus Prof. Mitchell Taibleson from Washington University in St. Louis. Mitch will be here for a month, and will be working with Qui. He's using Kevin's former office, room 602, ext.7687.

Neil Watson

Current Visitors	Organisation	Room No.	Ext. No.	From	To
Assoc. Prof. Peter Lockhart	Massey University	616	8876	6-Oct-02	20-Oct-04
Richard Laugesen , Prof	University of Illinois	710	7694	14-Jul-03	31-Mac-04
Gyou-Bong Lee , Prof	Paichai University, Korea	502	7663	15-Jul-03	14-Jul-04
Adrian lordache , Mr	University of Illinois	522	7695	1-Aug-03	31-Apr-04
Mitchell H Taibleson , Prof	Washington University	602	7687	10-Nov-03	17-Dec-03
Marie Keatley , Dr	University of Melbourne	721	8338	17-Nov-03	20-Dec-03
Michael Woodhams , Dr	Massey University	616	8876	1-Dec-03	5-12-03
Hajime Ishihara , Assoc. Prof.	Japan Advanced Institute Of Science and Technology	703	7427	7-Dec-03	15-Dec-03