

NEWSLETTER

Department of Mathematics & Statistics

Issue No. 6/04

Thursday, 8th April 2004

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SEMINAR

Date: Thursday 22nd April 2004
Time: 11.10am
Venue: Room 446, Level, 4, Mathematics and Computer Sciences building (MSCS)
Title: Modelling Of The Mechanisms Governing Crimp In Wool
Speaker: Bernie Tsang, Department of Mathematics and Statistics, University of Canterbury

Abstract:

The mechanisms controlling the shape of the wool fibre are of interest to textile researchers wishing to improve the quality of wool fibre products. With the development of the genetic engineering, it is possible to alter the ultrastructure of wool fibre .

Therefore, if we know about the relationship between the ultrastructure and the shape of wool fibre, we can control the quality of wool fibre. One of the dominant mechanisms is studied.

This seminar will show several mathematical models can be used to estimate the shape of a fibre from the its given ultrastructure. With the mathematical model, we can therefore also determine the factors, which will affect the shape of the fibre.

Graeme Wake

PAPERS PUBLISHED

Hudson I L with Keatley M R & Fletcher T D (2004) '*Long-term flowering synchrony of Box-Ironbark Eucalypts.*' Australian Journal of Botany, Vol 52(1):47-54.

Irene Hudson

DEPARTMENTAL RESEARCH FUND

Congratulations to Mark Hickman and Bob Broughton who have been awarded grants from the Departmental Research Fund to attend the Auckland Workshop on Computational Partial and Ordinary Differential Equations, 21 July.

Congratulations to Kyoto Fukuda and In Kang, who have been awarded grants-in-aid from the departmental research fund to make presentations at the International Biometric Conference in Cairns in July.

Ian Coope

PHD SUCCESSFULLY DEFENDED

I am glad to say that Beverley Horn yesterday successfully defended her PhD thesis entitled: "Mathematical Optimisation of Diver Ascent Profiles at a constant risk of Decompression Illness".

This work was supported by the UK Defence Research Agency. After completing the final copies, she will begin on a 4 year part-time postdoctoral fellowship in the Bioengineering Group in Engineering working with Drs Geoff Chase and Chris Hann, starting 1st May 2004. Congratulations from us all Beverley.

Graeme Wake

2ND SIAM DAY

The 2004 NZ Mathematics Colloquium organisers have agreed to have the second SIAM (Southern Industrial Applied Mathematics) day as an embedded meeting of the Colloquium on Tuesday 7th December. The lead-in speaker is James Sneyd ex-Otago, Canterbury and Massey, now Auckland. These days were started in December 2003 with the inaugural meeting at Lincoln last December as a lead-in to the ANZIAM MISGs being held in NZ.

The southern meeting matches the other 2 existing AM days (Wellington-Manawatu AM day, started 6 years ago, and the Auckland-Waikato AM day also started last year).

Graeme Wake

DEPARTMENTAL VISITORS

Current Visitors	Name of Organisation	From	To	Room No	Ext No
Peter Lockhart, Dr	Massey University	6-Oct-02	20-Oct-04	616	8876
Richard Laugesen, Prof	University of Illinois	14-Jul-03	16-Apr-04	710	7694
Gyou-Bong Lee, Prof	Paichai University, Korea	15-Jul-03	14-Jul-04	502	7663
Andreas Dress, Prof (Erskine Fellow)	Universitat Bielefeld, Germany	1-Mar-04	25-Apr-04	616	8876
Michael Burns, Dr	University of California, Berkeley	15-Mar-04	19-Mar-04	413	8369
Carl Masak, Mr	Uppsala University, Sweden	24-Mar-04	13-May-04	501	8376
Visitors due to arrive	Name of Organisation	From	To	Room No	Ext No
V S Sunder, Prof	The Institute of Mathematical Sciences, Chennai, India.	25-Apr-04	30-Apr-04	710	7694
Willy Hereman, Prof	Colorado School of Mines	15-Jun-04	20-Aug-04	710	7694