

Weekly Bulletin

Research School of Physical Sciences & Engineering

Volume 34 Number 17
2 – 8 May 2008

SCHOOL SEMINARS

Applied Mathematics Seminar

Monday 12 May

11:00am

“Modelling nanostructures as nano-oscillators and for applications in nanomedicine”

By Dr Tamsyn Hilder

(recently submitted PhD at Wollongong University)

This seminar presents three aspects of my research into mathematical modelling in nanotechnology. In particular it presents an alternative formulation for determining the intermolecular force between interacting molecules, nanostructures as nano-oscillators, and nanotubes for applications in nanomedicine.

School Seminar Room

All Welcome

NEW CHAPTER IN SCIENTIST'S LIFE

“NEVILLE Fletcher is a man of many parts. Musician (flute, bassoon, organ), physicist and mathematician, aircraft pilot and academic are among them, but his latest venture is short-story writing.

Brief Candles, a collection of 17 stories written between 2000 and 2005 contains a number with scientific themes, such as “The Zonules of Zinn” and “The Turing Test”, but also unnerving observations of human character such as “Executive Decision”.

For the whole article (published in The Australian, 30.04.08) go to:

<http://www.theaustralian.news.com.au/story/0,25197,23619070-12332,00.html>

STAFF MOVEMENTS

The Nonlinear Physics Centre would like to welcome a new staff member, Dr Konstantin Bliokh, an ARC International Fellow from the Institute of Radio Astronomy, Ukraine, who will be working with Dr A. Desyatnikov and Professor Yuri Kivshar on the theory of Berry phase and phase singularities of optical and matter waves in nonlinear and spatially inhomogeneous media.

Professor Keith Fifield and Dr Toshiyuki Fujioka, Department of Nuclear Physics, will be away from the Department from 2 – 16 May, during which time they will be carrying out fieldwork in the Pilbara region in WA in relation to ARC Project “Exposure dating with manganese-53, neon-21 and beryllium-10”.

Dr Tibor Kibedi, Department of Nuclear Physics, will be away from 3 – 21 May, during which time he will be attending and giving lectures at the joint ICTP-IAEA Workshop on Nuclear Structure and Decay Data in Trieste, Italy and the Workshop for Radioactive Decay data Evaluators (DDEP-2008) in Bucharest, Romania.

Professor Steve Buckman (CAMS/AMPL) will present an invited talk at the LEEMI/EIPAM European Research Network Workshop in Roscoff, France, 7-11 May.

ACCOMMODATION WANTED

AN internship student, Mr David Dumay from France is visiting the Nonlinear Physics Centre from 1 June – 31 August 2008 and is looking for shared accommodation for this period. If you know of someone who can accommodate David for three months, please contact Dr. Dragomir Neshev (Dragomir.Neshev@anu.edu.au)

GRANTS AND AWARDS

International Centre for Diffraction Data

Program Number: 73404

Title: Jerome B. Cohen Award

E-mail: flaherty@icdd.com

Program URL:

<http://www.icdd.com/resources/awards/cohen.htm>

The sponsor awards a cash prize of \$1,000 to recognize the achievements of student research in the field of X-ray analysis. The recipient will be expected to present his/her work at an appropriate session of the Denver X-ray Conference.

Deadline(s): 01/07/2008

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?73404

International Centre for Diffraction Data

Program Number: 96882

Title: Denver X-ray Conference Student Travel Grant

E-mail: DXCtravelgrants@icdd.com

Program URL:

<http://www.dxcicdd.com/08/files/2008StudentTravelGrantApp.pdf>

The sponsor provides limited travel support to help students attend the 2008 Denver X-ray Conference, being held in Denver, Colorado, 4-8 August 2008.

Deadline(s): 15/05/2008

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?96882