

Weekly Bulletin

Research School of Physical Sciences & Engineering

Volume 33 Number 45
23 – 29 November 2007

FROM THE DIRECTOR'S OFFICE

Promotion Successes

Level E1

Congratulations to Professor Ken Baldwin on his well deserved promotion to Level E1.

Level D

Congratulations to Dr Tiziana Di Matteo (AM) and Dr Joe Hope (FoS) on their well deserved promotion to Level D (incorrectly reported as Level C in last week's Bulletin).

Director's Absence

The Director will be away from the University from 26 November - 4 December inclusive. He will attend the MRS 2007 Fall Meeting in Boston followed by a meeting in Sydney on 3-4 December. Professor Ken Baldwin will be Acting Director from 26-30 November inclusive, and Professor Neil Manson on 3 and 4 December.

Congratulations

Luhua Li has won the best oral presentation award (students) at the 4th Centre of Excellence for Functional Nanomaterials Annual Conferences held in Gold Coast, 12-13 November 2007. Early this year, he won the best poster presentation at the 31st Annual Condensed Matter and Materials Meeting in Wagga, 2007. Well done.

SCHOOL COLLOQUIUM

Thursday 29 November 2007

4.00pm

“Efficient descriptions of many-body systems: simulations and beyond”

by Professor Dr J Ignacio Cirac

Max-Planck-Institut für Quantenoptik, Garching, Germany

Leonard Huxley Lecture Theatre

Donughts will be provided in the RSPSE Link Tea

Room before the Colloquium
All Welcome

SCHOOL SEMINARS

PhD Mid Term Review Seminar

Friday 23 November 2007

9.30am

“Testing of the Helicon Double Layer Thruster Immersed in a Space Simulation Chamber”

By Mr Michael West

Link Building Seminar Room

All welcome

NONLINEAR PHYSICS CENTRE SEMINAR

Wednesday 28 November 2007

2.00pm

“Helix-Like Waveguides”

Professor Alexander Volyar, Department of Physics, Taurida National University, Crimea (Ukraine)

Link Building Seminar Room

SCHOOL MEDIA SKILLS WORKSHOP

Wednesday 28 November

All academic staff and students are strongly encouraged to attend the School Media Workshop on Wednesday 28 November to acquire and refine their skills in this area.

In the current environment, communication of our outstanding scientific achievements to the wider community is an important component of the continuous cycle of research funding.

To enhance the School's capacity to communicate the results of our excellent research, we have arranged with the ANU Media Office to hold a special media skills workshop at no charge.

It will introduce the media in Australia and overseas, what to do if a journalist calls directly, how to tell if you have an interesting story, and techniques for giving a media interview. Please visit the ANU media website beforehand

<http://www.anu.edu.au/media>

**The Workshop will run from 9.30am - 12.00am
Wednesday, 28 November.**

It will be held in the Link Building Seminar Room.
To register, call the Media Office on 6125 6125 or
email Alice.Nixon@anu.edu.au

Look forward to seeing you all there.

Best wishes

Ken Baldwin

Deputy Director, RSPHYSSE

**MATHEMATICAL PHYSICS SUMMER
SCHOOL**

The 1st Asia-Pacific Summer School on
Mathematical Physics and 21st Canberra
International Physics Summer School will be held
in the Huxley Lecture Theatre and the
Mathematical Sciences Institute **from Monday 26
November to Friday 7 December 2007**. All
members of the School are welcome to attend
lectures. Full details and registration form can be
found at <http://www.maths.anu.edu.au/events/>

STAFF MOVEMENTS

Professor Dewar will be at the AMSI/MASCOS
Theme Program workshop in Melbourne on
"Concepts of Entropy and their Applications" from
26 November - 3 December, where he will deliver
an invited talk on *Plasma relaxation principles* as
part of the Mini-Symposium on "Entropy Methods
in Thermodynamics".

Professor Steve Buckman (CAMS/AMPL) will be
visiting University College London (26-27
November) and The Institute of Physics, Belgrade
(28 November - 2 December.). He will present
seminars at both institutions, a public lecture to
Science Fair students in Belgrade and be involved
in joint research projects with colleagues in
Belgrade.

Professor David Hinde and Dr Nanda Dasgupta,
Department of Nuclear Physics, will be in Canada,
28 November - 5 December, during which time
they will be attending and presenting talks at the
"Quantum Information and Many Body Physics
Workshop" held at the University of British
Columbia. They will also be visiting the TRIUMF
Laboratory in Vancouver.

VISITORS

Atomic and Molecular Physics Laboratories would
like to welcome Visiting Fellows from the

Laboratoire de Photophysique Moléculaire,
Université Paris-Sud in France, Professors Hélène
Lefebvre-Brion and Professor Roland Lefebvre.
They will be collaborating with Professor Brenton
Lewis and located in Room C4.06 until 16
December.

The Atomic and Molecular Physics Laboratories
would like to welcome two visiting students, Leon
Cooper and Ryan Holmes who will be with us for
the summer. Leon is from Monash University and
will be working with Andrew Truscott and is
located in Room C3.02. Ryan was with us earlier
this year and is returning, this time to work with
James Sullivan in the Centre for Antimatter-Matter
Studies and located in C3.01. A warm welcome to
them both.

The Department of Theoretical Physics would like
to welcome Kirill Talanine who will be taking up a
summer research scholarship. He will be studying
compactification in String Theory and Quantum
Field Theory under supervision of Professor Peter
Bouwknegt.

The Department of Theoretical Physics welcomes
Professor Anjan Kundu, Saha Institute of Nuclear
Physics, Calcutta as a visitor from 22 November -
23 December. Professor Kundu will work with
Professor Murray Batchelor and Dr Xiwen Guan
on anyonic properties of matter.

The Department of Theoretical Physics welcomes
new visitors Dr Masahiro Shiroishi, University of
Tokyo, from 25 November - 16 December, Dr
Zengo Tsuboi, Okayama Institute for Quantum
Physics, from 25 November - 18 December and
Professor Jingsong He, University of Science and
Technology of China, from 22 November - 20
December. They will undertake collaborative
research with members of the mathematical
physics group.

The Department of Theoretical Physics welcomes
Professor Sander Bais (University of Amsterdam,
25 November - 2 December), Professor Soonkeon
Nam (Kyung Hee University, Seoul, 25 November
2 December) and Professor Guifre Vidal
(University of Queensland, 25 November - 7
December). They will be lecturing in the
Mathematical Physics Summer School.

The Nonlinear Physics Centre would like to
welcome Professor Mario Molina from the
University of Santiago (Chile) who will be

working with Professor Yuri Kivshar and Dr Andrey Miroshnichenko on the analysis of the Aharnov-Bohm effect and Fano resonances in photonic waveguide and networks.

The Nonlinear Physics Centre would like to welcome Professor Alex Volyar and Dr Tatyana Fadeyeva from the Taurida National University (Crimea, Ukraine) who will be working together with Dr Anton Desyatnikov, Professor Yuri Kivshar, and Professor Wieslaw Krolikowski on the generation and control of singular optical modes in chiral photonic structures: twisted optical fibers and fiber couplers.

GRANTS & AWARDS

National Research Council

Program Number: 01632

Title: Research Associateship Programs--Center for Devices and Radiological Health

E-mail: jnyquist@nas.edu

Program URL:

<http://nrc58.nas.edu/pgasurvey/data/aobooks/rapbooks.asp?mode=fmtr&progctr=32&seq=20>

The sponsor provides opportunities to outstanding scientists and engineers at recent postdoctoral and experienced senior levels for tenure as guest researchers. Awardees must hold the PhD, ScD, or other earned research doctoral degree recognized in US academic circles as equivalent to the PhD. An annual stipend is awarded.

Deadline(s): 01/02/2008

01/05/2008

01/08/2008

01/11/2008

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?01632

CERN

Program Number: 03584

Title: Scientific Associateships

E-mail: Recruitment.Service@cern.ch

Program URL:

https://ert.cern.ch/browse_www/wd_pds?p_web_page_id=5962

The programme is open to established scientists, both of Member and Non-Member States, wishing to work at CERN subject to the availability of facilities and accommodation. The duration of sponsor support is normally at most for one year. Programmes covered at CERN include experimental and theoretical particle physics, as well as various activities in applied physics, electronics, computing and engineering.

Deadline(s): 11/03/2008

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?03584

American Institute of Physics

Program Number: 02362

Title: Science Writing Award in Physics & Astronomy—Scientist

E-mail:

Program URL: <http://www.aip.org/aip/writing/>

The sponsor makes an award to honor publications in physics, astronomy and allied science fields. Eligible applicants are physicists, astronomers, or members of AIP and affiliated societies. A prize of \$3,000 will be awarded.

Deadline(s): 01/03/2008

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?02362

American Institute of Physics

Program Number: 09284

Title: Science Writing Award in Physics & Astronomy--Journalist

E-mail:

Program URL: <http://www.aip.org/aip/writing/index.html>

The sponsor makes an award to honor publications in physics, astronomy, and allied science fields. Eligible applicants are professional journalists. A prize of \$3,000 will be awarded.

Deadline(s): 01/03/2008

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?09284

American Institute of Physics

Program Number: 64178

Title: Science Writing Award in Physics & Astronomy--Broadcast Media

E-mail:

Program URL: <http://www.aip.org/aip/writing/>

The sponsor makes an award to honor publications in physics, astronomy and allied science fields. Eligible applicants are professional journalists or feature writers. A prize of \$3,000 will be awarded.

Deadline(s): 01/03/2008

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?64178