

# Weekly Bulletin

Research School of Physical Sciences & Engineering

Volume 33 Number 19  
25 May – 1 June 2007

## FROM THE DIRECTOR'S OFFICE

The Director will be in Strasbourg, France from 28 May to 1 June inclusive, attending the E-MRS 2007 Spring Meeting as an invited speaker. Dr Ken Baldwin will be acting director during this time.

## CONGRATULATIONS

Congratulations to Professor Yuri Kivshar, Non-Linear Physics Centre, on being awarded a second ARC Federation Fellowship, to commence in 2008.

## SCHOOL SEMINARS

### **School Seminar Program**

**Thursday 7 June 2007**

4.00pm

“Plasma technology serving the environment: Terrestrial and inter-planetary applications”

by Dr Cormac Corr, Space Plasma, Power and Propulsion (SP3) Group, RSPHYSSE

HUXLEY LECTURE THEATRE

**Drinks and light refreshments will be provided in the RSPSE Link Tea Room after the Seminar**  
ALL WELCOME

## STAFF MOVEMENTS

Dr Mark Ridgway, Dr Patrick Kluth, Dr Leandro Araujo and PhD Students Raquel Giulian, Claudia Schnohr and David Sprouster, Honours Student Emily Frain will be away for periods between 25 May to 7 June conducting EXAFS experiments at the Photon Factory Synchrotron Tsukuba Japan.

Dr Hoe Tan, EME, will attend the EMRS Conference from 28 May to 1 June in Strasbourg, France, before continuing on to attend the EW-MOVPE Conference in Bratislava, Slovak Republic from 3-6 June. Hoe will then visit the company Raith in Dortmund Germany for the acceptance of the Electron Beam Lithography System 7-8 June.

Professor George Dracoulis, Department of Nuclear Physics, will be in Darwin from 27-29 May to attend the APEC Energy Business Forum and to present an invited talk on Nuclear Energy for Australia.

Professor Dracoulis will also be away from 1-18 June, at which time he will be in Japan to present papers at the International Nuclear Physics Conference (INPC2007) in Tokyo and the International Workshop on Nuclear Structure in Kyoto, at the Yukawa Institute. Professor Keith Fifield will be acting HOD while Professor Dracoulis is overseas.

Dr Andrew Stuchbery, Department of Nuclear Physics, will be in the US from the 29 May - 10 June. Dr Stuchbery will be presenting an Invited talk at the Yale WNSL 2007 Workshop on Nuclear Structure Physics Near the Coulomb Barrier: Into the 21st Century at North Haven, Connecticut, held 31 May – 2 June. Dr Stuchbery will then present an invited presentation at the Gordon Research Conference on Nuclear Chemistry in New London, New Hampshire, held 3 - 8 June.

Dr Greg Lane, Department of Nuclear Physics, will also be in the US from the 29 May - 11 June. Dr Lane will be attending the Yale WNSL 2007 Nuclear Structure Workshop, held 31 May - 2 June and then presenting an invited talk at the Gordon Research Conference on Nuclear Chemistry in New London, New Hampshire, held 3 - 8 June.

## The SHEILA Helic in “Nuclear Matters” exhibition at the Powerhouse Museum

PRL are pleased to announce that the first heliac plasma device, and the predecessor to H-1 and several other larger devices internationally, will be put on display in the PowerHouse Museum in the Darling Harbour area. SHEILA, a 1/5 scale prototype for H-1, was constructed in this School by PRL and the workshop, Dick Goldberg, Herb Zeilinger, Eddy Wedhorn, Beb Fox, Ray Kimlin,

Clint Davies, Gerry McCluskey, and later, Ding-Fa Zhou, based on a design by Les Sharp, Em. Professor Hamberger, Alan Campbell and Rob Gresham, and computation by Jack Blamey, Shiu Tin and Joe Elso. First plasma was obtained in 1984, by Boyd Blackwell, and Shi Xueha and SHEILA was operated for 10 years, providing data for 4 PhD students and 2 PostDocs, as well as design input to H-1.

The “Nuclear Matters” exhibition will open in August and run for five years. Conceived by Dr Jesse Shore, and sponsored by ANSTO, it consists of 9 installations relating to nuclear science in Australia. SHEILA will be displayed close to a desktop fusion interactive (a fusor - will look like a plasma ball) which will explain plasma, deuterium, fusion and neutrons. SHEILA will be immediately adjacent to an interactive display about the OPAL reactor.

## **GRANTS & AWARDS**

### **American Physical Society**

Program Number: 05369

Title: Outstanding Doctoral Thesis Research in Beam Physics Award

E-mail: [hoff@mail.lepp.cornell.edu](mailto:hoff@mail.lepp.cornell.edu)

Program URL:

<http://www.aps.org/programs/honors/dissertation/beamphysics.cfm>

The sponsor offers an award to recognize outstanding doctoral thesis research in beam physics and engineering.

Deadline(s): 30/09/2007

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?05369](http://australia.infoed.org/spin/spin_prog.asp?05369)