

# Weekly Bulletin

Research School of Physical Sciences & Engineering

Volume 33 Number 16  
4 – 10 May 2007

## SCHOOL COLLOQUIUM

**THURSDAY 17 MAY 2007**

4.00pm

“Acoustics of Musical Wind Instruments - And of Musicians”

by Professor Joe Wolfe, School of Physics, The University of New South Wales.

**LEONARD HUXLEY LECTURE THEATRE**

**Drinks and light refreshments will be provided in the RSPSE Link Tea Room after the Colloquium**

**ALL WELCOME**

## SCHOOL SEMINAR

**Nonlinear Physics Centre Seminar**

**Monday 7 May 2007**

11.00am

“Accurate numerical modelling of metamaterials using finite-difference time-domain method”

by Dr Pavel Belov, Queen Mary University of London, UK

Link Building Seminar Room

## SCHOOL FORUM NOMINATIONS

A reminder that nominations for representatives and alternates from departmental technical officers, departmental administrators, students, and non-tenured academic staff close at **5pm on Friday, 11 May 2007**. Completed nomination forms to be received by Helen McMartin in the School HR Office.

## STAFF MOVEMENTS

Professor Rod Boswell and Dr Christine Charles are travelling to Université d'Orléans to work in the GREMI Laboratory as Research Fellows for one month before attending a workshop in Dublin where Christine has been invited to give an address with a paper on Radio-Frequency Discharges. While they in Dublin Rod and Christine will be

collaborating with the University of Dublin for 2 days.

Professor Anatoli Kheifets will be overseas in May 2007. He will present papers at the European Conference on Atoms, Molecules and Photons on Crete, Greece, and give an invited talk at the International Symposium on Multiphoton Multiple Ionization of Atoms and Molecules at the same location. Professor Kheifets is also invited to give talks at the University of Frankfurt, the National Hellenic Research Foundation in Athens and the Ruder Boskovic Institute in Zagreb.

## VISITING STUDENTS

Please join the Atomic and Molecular Physics Laboratories in welcoming visiting Honours students Tyler RAESIDE and Jason ROBERTS who will be joining us for approximately 5 months from Flinders University and studying under Professor Buckman's guidance in the Centre for Antimatter-Matter Studies. We wish them both a warm welcome.

## AMPL VISITORS

AMPL will receive several distinguished visitors during May. Dr Mark Stevenson from the University of Adelaide, Professor Hyuck Cho from Chungnam National University in Korea and Professor Hiroshi Tanaka, Sophia University, Tokyo will be visiting Professor Buckman. Dr Chris Westbrook from Laboratoire Charles Fabry de l'Institut D'Optique in Paris will be visiting Dr Ken Baldwin.

## CONGRATULATIONS

Congratulations to Dr Hua Xia (PRL) and her husband Xinjun Luo on the birth of their baby boy!

## THEEVERY ON CAMPUS

There are thieves active on campus. Please ensure that all valuables are secured. Laptops and computers in particular have been targeted.

## **GRANTS & AWARDS**

### **Australian Coal Research Limited**

Program Number: 22580

Title: Australian Coal Association Research Program (ACARP)

E-mail: [anne@acarp.com.au](mailto:anne@acarp.com.au)

Web Site: <http://www.acarp.com.au/>

Program URL:

<http://www.acarp.com.au/Downloads/ACARPResearchPrioritiesNewsletter.pdf>

The sponsor will fund projects that lead to improvements in safety standards and performance, a reduction in the environmental impacts of mining and coal utilisation, a reduction in the mine operating cost and technical support to marketing of coal. The priority areas in 2007 are: Underground, Open Cut, Coal Preparation, Technical Market Support, Sustainability, and Greenhouse Gas Mitigation.

**Deadline(s): 23/05/2007**

DEADLINE NOTE

The closing date for initial submissions is 23 May 2007. Announcement of short-listed submissions is to be made by 27 July 2007, and closing date for full submissions on 12 September 2007. Funded projects are expected to be announced by mid-December 2007.

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?22580](http://australia.infoed.org/spin/spin_prog.asp?22580)

### **American Institute of Aeronautics & Astronautics**

Program Number: 76467

Title: Aerospace Software Engineering Award

E-mail: [carols@aiaa.org](mailto:carols@aiaa.org)

Program URL:

<http://www.aiaa.org/content.cfm?pageid=290>

An award is presented for outstanding technical and/or management contributions to aeronautical or astronautical software engineering.

**Deadline(s): 01/07/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?76467](http://australia.infoed.org/spin/spin_prog.asp?76467)

### **American Institute of Aeronautics & Astronautics**

Program Number: 84032

Title: Digital Avionics Award

E-mail: [carols@aiaa.org](mailto:carols@aiaa.org)

Program URL:

<http://www.aiaa.org/content.cfm?pageid=290>

The sponsor provides an award to recognize outstanding achievement in technical management and/or implementation of digital avionics in space

or aeronautical systems, including system analysis, design, development or application.

**Deadline(s): 01/07/2007**

DEADLINE NOTE

This award is presented in odd years.

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?84032](http://australia.infoed.org/spin/spin_prog.asp?84032)

### **American Institute of Aeronautics & Astronautics**

Program Number: 84035

Title: Excellence in Aerospace Standardization Award

E-mail: [carols@aiaa.org](mailto:carols@aiaa.org)

Program URL:

<http://www.aiaa.org/content.cfm?pageid=290>

The sponsor provides an award to recognize contributions by individuals that advance the health of the aerospace community by enabling cooperation, competition, and growth through the standardization process.

**Deadline(s): 01/07/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?84035](http://australia.infoed.org/spin/spin_prog.asp?84035)

### **American Institute of Aeronautics & Astronautics**

Program Number: 84036

Title: F. E. Newbold V/STOL Award

E-mail: [carols@aiaa.org](mailto:carols@aiaa.org)

Program URL:

<http://www.aiaa.org/content.cfm?pageid=290>

The sponsor provides an award to recognize recognize outstanding creative contributions to the advancement and realization of powered lift flight.

**Deadline(s): 01/07/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?84036](http://australia.infoed.org/spin/spin_prog.asp?84036)

### **American Institute of Aeronautics & Astronautics**

Program Number: 84038

Title: Gardner-Lasser History Literature Award

E-mail: [carols@aiaa.org](mailto:carols@aiaa.org)

Program URL:

<http://www.aiaa.org/content.cfm?pageid=290>

The sponsor provides an award to recognize the best original contribution to the field of aeronautical or astronautical historical non-fiction literature published in the last five years dealing with the science, technology, and/or impact of aeronautics and astronautics on society.

**Deadline(s): 01/07/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?84038](http://australia.infoed.org/spin/spin_prog.asp?84038)

**American Institute of Aeronautics & Astronautics**

Program Number: 84039

Title: History Manuscript Award

E-mail: [carols@aiaa.org](mailto:carols@aiaa.org)

Program URL:

<http://www.aiaa.org/content.cfm?pageid=290>

The sponsor provides an award to recognize the best historical manuscript dealing with the science, technology, and/or impact or aeronautics and astronautics on society.

**Deadline(s): 01/07/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?84039](http://australia.infoed.org/spin/spin_prog.asp?84039)

**American Institute of Aeronautics & Astronautics**

Program Number: 84040

Title: Information Systems Award

E-mail: [carols@aiaa.org](mailto:carols@aiaa.org)

Program URL:

<http://www.aiaa.org/content.cfm?pageid=290>

The sponsor presents an award to recognize technical and/or management contributions in space and aeronautics computer and sensing aspects of information technology and science.

**Deadline(s): 01/07/2007**

DEADLINE NOTE

This award is presented in odd years.

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?84040](http://australia.infoed.org/spin/spin_prog.asp?84040)

**American Institute of Aeronautics & Astronautics**

Program Number: 84041

Title: Lawrence Sperry Award

E-mail: [carols@aiaa.org](mailto:carols@aiaa.org)

Program URL:

<http://www.aiaa.org/content.cfm?pageid=290>

The sponsor provides an award to recognize a notable contribution made by a young person (under the age of thirty-five) to the advancement of aeronautics or astronautics.

**Deadline(s): 01/07/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?84041](http://australia.infoed.org/spin/spin_prog.asp?84041)

**American Institute of Aeronautics & Astronautics**

Program Number: 84042

Title: Losey Atmospheric Sciences Award

E-mail: [carols@aiaa.org](mailto:carols@aiaa.org)

Program URL:

<http://www.aiaa.org/content.cfm?pageid=290>

The sponsor provides an award to recognize outstanding contributions to the atmospheric sciences as applied to the advancement of aeronautics and astronautics.

**Deadline(s): 01/07/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?84042](http://australia.infoed.org/spin/spin_prog.asp?84042)

**American Institute of Aeronautics & Astronautics**

Program Number: 84054

Title: Pendray Aerospace Literature Award

E-mail: [carols@aiaa.org](mailto:carols@aiaa.org)

Program URL:

<http://www.aiaa.org/content.cfm?pageid=290>

The sponsor provides an award to recognize an outstanding contribution or contributions to aeronautical and astronautical literature in the relatively recent past.

**Deadline(s): 01/07/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?84054](http://australia.infoed.org/spin/spin_prog.asp?84054)

**American Institute of Aeronautics & Astronautics**

Program Number: 84055

Title: Space Processing Award

E-mail: [carols@aiaa.org](mailto:carols@aiaa.org)

Program URL:

<http://www.aiaa.org/content.cfm?pageid=290>

The sponsor offers an award to recognize significant contributions in space processing or in furthering the use of microgravity for space processing.

**Deadline(s): 01/07/2007**

DEADLINE NOTE

This award is presented in even years.

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?84055](http://australia.infoed.org/spin/spin_prog.asp?84055)

**American Institute of Aeronautics & Astronautics**

Program Number: 84057

Title: Wright Brothers Memorial Trophy

E-mail: [carols@aiaa.org](mailto:carols@aiaa.org)

Program URL:

<http://www.aiaa.org/content.cfm?pageid=290>

The sponsor provides an award to recognize significant public service of enduring value to aviation in the United States.

**Deadline(s): 01/07/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?84057](http://australia.infoed.org/spin/spin_prog.asp?84057)

**American Institute of Aeronautics & Astronautics**

Program Number: 89736

Title: Faculty Advisor Award

E-mail: [carols@aiaa.org](mailto:carols@aiaa.org)

Program URL:

<http://www.aiaa.org/content.cfm?pageid=290>

The sponsor presents an award to the faculty advisor of a the sponsor's chartered Student Branch, who in the opinion of student branch members, and the Student Activities Committee of the sponsor, has made outstanding contributions as a student branch faculty advisor, as evidenced by the record of his/her branch in local, regional, and national activities.

**Deadline(s): 01/07/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?89736](http://australia.infoed.org/spin/spin_prog.asp?89736)

**American Institute of Aeronautics & Astronautics**

Program Number: 89737

Title: Summerfield Book Award

E-mail: [carols@aiaa.org](mailto:carols@aiaa.org)

Program URL:

<http://www.aiaa.org/content.cfm?pageid=290>

The sponsor presents an award to the author of the best book recently published by the sponsor.

**Deadline(s): 01/07/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?89737](http://australia.infoed.org/spin/spin_prog.asp?89737)

**American Institute of Aeronautics & Astronautics**

Program Number: 89738

Title: James Van Allen Space Environments Award

E-mail: [carols@aiaa.org](mailto:carols@aiaa.org)

Program URL:

<http://www.aiaa.org/content.cfm?pageid=290>

The sponsor presents the award to recognize outstanding contributions to space and planetary environment knowledge and interactions as applied to the advancement of aeronautics and astronautics.

**Deadline(s): 01/07/2007**

DEADLINE NOTE

This award is presented in even years.

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?89738](http://australia.infoed.org/spin/spin_prog.asp?89738)

**Wellcome Trust**

Program Number: 62171

Title: International Senior Research Fellowships

E-mail: [contact@wellcome.ac.uk](mailto:contact@wellcome.ac.uk)

Program URL:

<http://www.wellcome.ac.uk/node2139.html>

This fellowship supports outstanding researchers, either medically qualified or science graduates, who wish to establish a research career in an Indian, South African, Czech, Estonian, Hungarian or Polish academic institution.

**Deadline(s): 08/06/2007**

DEADLINE NOTE

Candidates should complete a preliminary application form, to be submitted by June 8, 2007. Short listed candidates will be required to complete a full application for submission by September 3, 2007.

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?62171](http://australia.infoed.org/spin/spin_prog.asp?62171)