

# Weekly Bulletin

Research School of Physical Sciences & Engineering

Volume 33 Number 27  
20 – 26 July 2007

## CONGRATULATIONS

Congratulations to Professor Murray Batchelor for preparing the winning bid with Dr Jan de Gier (University of Melbourne) to host the 24<sup>th</sup> International Union of Pure and Applied Physics Conference on Statistical Physics in Cairns from 19-23 July 2010. Other presenters of the bid were Professor Denis Evans (ANU), Professor Tony Guttmann (Melbourne) in association with Professor Mark Gould and Dr Jon Links (University of Queensland).

The Nonlinear Physics Center would like to congratulate the following PhD students for their recent prestigious awards: Ivan Garanovich, for the third prize at the competition between student talks at the ARNAM 2007 Annual Workshop and Steven Lade, for the best presentation in the 'Computational Modelling for Biology and Chemistry' track at Complex'07, the 8th Asia-Pacific Complex Systems Conference

## SCHOOL SEMINARS

**ARC Centre of Excellence ACQAO SEMINAR  
Friday 3 August 2007**

2.00pm

“Search for solitons in BEC and nonlinear optical media”

by Dr Michal Matuszewski

Nonlinear Physics Center

Link Building Seminar Room

## FROM THE ACTING FACILITIES & SERVICES MANAGER

**Attention bike riders....**

The 'new' secure bicycle storage facility is now available for regular bike riders. The western basement of Oliphant Building can store about 50 bikes and has swipe card access. Your School Services team has done a great job creating this excellent facility. Please use it.

Check if your security card already has access by 'swiping' it at the entrance, western end of Oliphant Building near lower car park. No access? See Lyndell or Susie at Reception to have access granted to your security card....Don't have a security card?...you should.....please see Susie and arrange one.

Are you a casual/infrequent biker who uses your office, workshop or our communal bike racks for storing it? These are very expensive 'free' storage spaces. Please store your bike at home so your work area will be less cluttered, and bike racks freed for regular users.

Tony Cullen

## NEW STAFF

The Nonlinear Physics Center would like to welcome Postdoctoral Fellow, Dr Michal Matuszewski from 16 July. He will be working with Professor Yuri Kivshar, Dr Elena Ostrovskaya, and Dr Tristram Alexander on nonlinear dynamics of Bose-Einstein condensates.

## STAFF MOVEMENTS

Professor Yuri Kivshar will be away from 21-26 July, presenting an invited lecture at the International Symposium “Topology and Singularity in Optical Physics” (Sapporo, Japan) sponsored by The 21st Century Center of Excellence program of “Topological Science and Technology”, that aims to explore complex phenomena in various scientific fields from a topological perspective. Professor Kivshar will also visit Professor Misawa's group at Research Institute for Electronic Science in Sapporo.

Dr James Sullivan, CAMS/AMPL and Ms Violaine Vizcaino, CAMS/AMPL PhD Student, will travel to Europe from 20 July - 6 August. Dr Sullivan is visiting collaborators in Bristol and Swansea. Dr Sullivan and Ms Vizcaino will be attending Conferences in Friburg, Germany (25-31 July) and Reading, UK (1-4 August).

## **GRANTS & AWARDS**

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

Program Number: 76461

Title: Reed Aeronautics Award

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

Web Site: <http://www.aiaa.org/content.cfm?pageid=289>

Program URL:

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

The sponsor provides an award to an individual for achievements in the field of aeronautical science and engineering.

**Deadline(s): 01/10/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?76461](http://australia.infoed.org/spin/spin_prog.asp?76461)

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

Program Number: 76462

Title: Dryden Lectureship in Research

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

Web Site: <http://www.aiaa.org/content.cfm?pageid=289>

Program URL:

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

The lecture emphasizes the great importance of basic research to the advancement in aeronautics and astronautics and is a salute to research scientists and engineers.

**Deadline(s): 01/10/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?76462](http://australia.infoed.org/spin/spin_prog.asp?76462)

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

Program Number: 76464

Title: Aerodynamics Award

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

Web Site: <http://www.aiaa.org/content.cfm?pageid=289>

Program URL:

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

An award is presented for meritorious achievement in the field of applied aerodynamics, recognizing notable contributions in the development, application and evaluation of aerodynamic concepts and methods.

**Deadline(s): 01/10/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?76464](http://australia.infoed.org/spin/spin_prog.asp?76464)

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

Program Number: 76465

Title: Aerodynamic Measurement Technology Award

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

Web Site: <http://www.aiaa.org/content.cfm?pageid=289>

Program URL:

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

An award is presented for continued contributions and achievements toward the advancement of advanced aerodynamic flow field and surface measurement techniques for research in flight and ground test applications.

**Deadline(s): 01/10/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?76465](http://australia.infoed.org/spin/spin_prog.asp?76465)

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

Program Number: 76466

Title: Aerospace Design Engineering Award

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

Web Site: <http://www.aiaa.org/content.cfm?pageid=289>

Program URL:

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

An award is presented to recognize design engineers who have made outstanding technical, educational or creative achievements that exemplifies the quality and elements of design engineering.

**Deadline(s): 01/10/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?76466](http://australia.infoed.org/spin/spin_prog.asp?76466)

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

Program Number: 76467

Title: Aerospace Software Engineering Award

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

Web Site: <http://www.aiaa.org/content.cfm?pageid=289>

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): 01/10/2007**

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: 76468

Title: Air Breathing Propulsion Award

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

Web Site: <http://www.aiaa.org/content.cfm?pageid=289>

Program URL:

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

An award is presented for meritorious accomplishment in the science of air breathing

propulsion, including turbo-machinery or any other technical approach dependent upon atmospheric air to develop thrust, or other aerodynamic forces for propulsion, or other purposes for aircraft or other vehicles in the atmosphere or on land or sea.

**Deadline(s): 01/10/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?76468](http://australia.infoed.org/spin/spin_prog.asp?76468)

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

Program Number: 76469

Title: Distinguished Service Award

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

Program URL:

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

The award gives unique recognition to an individual member of AIAA who has distinguished himself or herself over a period of years by service to the Institute.

**Deadline(s): 01/10/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?76469](http://australia.infoed.org/spin/spin_prog.asp?76469)

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

Program Number: 76471

Title: Fluid Dynamics Award

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

Web Site: <http://www.aiaa.org/content.cfm?pageid=289>

Program URL:

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

An award is presented for outstanding contributions to the understanding of the behavior of liquids and gases in motion as related to need in aeronautics and astronautics.

**Deadline(s): 01/10/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?76471](http://australia.infoed.org/spin/spin_prog.asp?76471)

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

Program Number: 76472

Title: Ground Testing Award

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

Web Site: Program URL:

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

An award is presented for outstanding achievement in the development or effective utilization of technology, procedures, facilities, or modeling techniques or flight simulation, space simulation, propulsion testing, aerodynamic testing or other ground testing associated with aeronautics and astronautics.

**Deadline(s): 01/10/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?76472](http://australia.infoed.org/spin/spin_prog.asp?76472)

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

Program Number: 76473

Title: International Cooperation Award

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

Web Site: <http://www.aiaa.org/content.cfm?pageid=289>

Program URL:

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

An award is presented to recognize individuals who have made significant contributions to the initiation, organization, implementation and/or management of activities with significant United States involvement that includes extensive international cooperative activities in space, aeronautics or both.

**Deadline(s): 01/10/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?76473](http://australia.infoed.org/spin/spin_prog.asp?76473)

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

Program Number: 76476

Title: Plasmadynamics and Lasers Award

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

Web Site: <http://www.aiaa.org/content.cfm?pageid=289>

Program URL:

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

An award is presented for outstanding contributions to the understanding of the physical properties and dynamical behavior of matter in the plasma state and lasers as related to need in aeronautics and astronautics.

**Deadline(s): 01/10/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?76476](http://australia.infoed.org/spin/spin_prog.asp?76476)

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

Program Number: 76479

Title: Structures, Structural Dynamics and Materials Award

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

Web Site: <http://www.aiaa.org/content.cfm?pageid=289>

Program URL:

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

An award is presented to an individual who has been responsible for an outstanding recent technical or scientific contribution in aerospace structures, structural dynamics or materials.

**Deadline(s): 01/10/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?76479](http://australia.infoed.org/spin/spin_prog.asp?76479)

**American Institute of Aeronautics & Astronautics**

Program Number: 76482

Title: Theodore W. Knacke Aerodynamic Decelerator Systems Award

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

Web Site: <http://www.aiaa.org/content.cfm?pageid=289>

Program URL:

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

An award is presented to recognize significant contributions to the effectiveness and/or safety of aeronautical or aerospace systems through development or application of the art and science of aerodynamic decelerator technology.

**Deadline(s): 01/10/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?76482](http://australia.infoed.org/spin/spin_prog.asp?76482)

**American Institute of Aeronautics & Astronautics**

Program Number: 76483

Title: Thermophysics Award

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

Web Site: <http://www.aiaa.org/content.cfm?pageid=289>

Program URL:

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

An award is presented for an outstanding singular or sustained technical or scientific contribution by an individual in thermophysics, specifically as related to the study and application of the properties and mechanisms involved in thermal energy transfer and the study of environmental effects on such properties and mechanisms.

**Deadline(s): 01/10/2007**

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?76483](http://australia.infoed.org/spin/spin_prog.asp?76483)