

Weekly Bulletin

Research School of Physics and Engineering



Volume 35 Number 21
5 – 11 June 2009

2010 FULBRIGHT SCHOLARSHIP APPLICATIONS NOW OPEN

Valued at up to \$A40,000, Fulbright scholarships are open to Australian citizens to undertake research or study in the United States for between 3 and 12 months, depending on the particular Scholarship. Scholarships can be commenced between 1 July 2010 and 30 June 2011.

Applications are open to Postgraduates (to do research related to their Australian PhD or enroll in a US degree), Postdoctoral, Professional and Senior Scholars from any field of study. There are also many new sponsored Fulbright Scholarships in particular every state now has its own dedicated Scholarship and details of these are available on our website.

For further information and application forms navigate to the section 'Fulbright Scholarships/For Australian citizens' on our website at www.fulbright.com.au

Applications close 31 August 2009.

CYCLE SAFETY

With winter coming and it getting dark much earlier, please ensure that bike riders have all the appropriate safety equipment, including helmets and lights. A number of cyclists on Campus have been noted not having lights. This makes it almost impossible for motorists or pedestrians to see you. The increased police presence on campus will be targeting cyclists who are not wearing helmets or without lights. Please be safe.

STAFF MOVEMENTS

The basic plasma fusion research conducted by the SP3 group has received a significant boost with Professor Rod Boswell being invited to present the group's research at four major institutions in Germany during the next two months. He will be in Europe working with Dr Christine Charles on Fuel Cells for clean transportation in the University of Orleans in France and the space

qualification development of her plasma thruster at the Space Science Centre at the University of Surrey in the UK. Dr Charles will give an invited talk on the thrusters at the International Symposium on Plasma Chemistry in Bochum, Germany

Professor Jagadish, Department of Electronic Materials Engineering, will be travelling to Vilnius, Oxford, Los Angeles and Singapore. He will be attending the Semiconducting and Insulating Materials Conference in Vilnius (to give a talk and attend the International Advisory Committee meeting of the conference); visiting Oxford University for collaborative research; attending the IEEE Technical Activities Board Meetings in Los Angeles; and the International Conference on Materials and Advanced Technologies in Singapore to give two invited talks. He will also visit the Nanyang Technological University in Singapore to give a seminar. Professor Jagadish will be departing 14 June 2009 and returning 4 July 2009.

Professor Mukunda Das, Theoretical Physics, will participate in the "International Workshop on Advanced Materials and Nano-Materials for New and Renewable Energy" from 9 – 11 June at Putri Duyung Resort at Jakarta. He will give a plenary talk on new superconducting materials.

Professor George Dracoulis, Nuclear Physics Department, will be away from 11 – 27 June, to present the opening invited paper at the ECT Workshop on Atomic Effects in Nuclear Excitation being held in Trento, Italy, and also to attend the 2009 Gordon Conference on Nuclear Chemistry, in New London, New Hampshire. Professor David Hinde will be acting HOD during this period.

WELCOME

The Nonlinear Physics Centre would like to welcome a new staff member, Professor Sergey Gredeskul. Professor Gredeskul is from Ben Gurion University of the Negev, Israel and he will be working with Professor Yuri Kivshar and Dr

Weekly Bulletin

Research School of Physics and Engineering



Ilya Shadrivov on the theory on disordered metamaterials and Anderson localization in nonlinear systems

CAMS VISITORS

Professor Michael Morrison, Department of Physics and Astronomy, University of Oklahoma, joins CAMS from 8 – 23 June 2009. He will be collaborating with Professor Steve Buckman and Dr James Sullivan. We extend a warm welcome to the school.

EME VISITORS

The Department of Electronic Materials Engineering would like to welcome Dr Arijit Chowdhuri, a Departmental Visitor from the University of Delhi working with Professor Jagadish, arriving 8 June 2009, departing 14 November 2009; Ms Rashmi Menon a Departmental Visitor from the University of Delhi working with Professor Jagadish arriving 2 June 2009, departing 5 July 2009; Mr Shibu Saha a Departmental Visitor from the University of Delhi working with Professor Jagadish arriving 8 June 2009, departing 20 June 2009.

FUZZY LOGIC SCIENCE SHOW

On 31 May, Steven Lade of the Nonlinear Physics Centre was a special guest on the Fuzzy Logic Science Show, broadcast on Canberra community radio station 2xx 98.3fm. A podcast will be available at <http://fuzzylogicon2xx.podbean.com/>.

Fuzzy Logic airs every Sunday from 11.30am to 12.30pm.

GRANTS & AWARDS

National Institute of General Medical Sciences/NIH/DHHS

Program Number: 88140

Title: Innovations in Biomedical Computational Science and Technology (R01)

E-mail: lysterp@mail.nih.gov

Program URL: <http://grants1.nih.gov/grants/guide/pa-files/PAR-07-344.html>

The sponsors offer support for research and

developments in computational science and technology that will support rapid progress in areas of scientific opportunity in biomedical research. As defined here, biomedical computing or biomedical information science and technology includes database design, graphical interfaces, querying approaches, data retrieval, data visualization and manipulation, data integration through the development of integrated analytical tools, and tools for electronic collaboration, as well as computational and mathematical research including the development of structural, functional, integrative, and analytical models and simulations. This program will use the NIH R01 award mechanism. <S2S>

Deadline(s): 05/06/2009

DEADLINE NOTE

This program will expire on September 8, 2009.

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?88140

National Institute of General Medical Sciences/NIH/DHHS

Program Number: 88142

Title: Exploratory Innovations in Biomedical Computational Science and Technology (R21)

E-mail: lysterp@mail.nih.gov

Program URL: <http://grants1.nih.gov/grants/guide/pa-files/PAR-06-411.html>

The sponsors offer support for research and developments in computational science and technology that will support rapid progress in areas of scientific opportunity in biomedical research. As defined here, biomedical computing or biomedical information science and technology includes database design, graphical interfaces, querying approaches, data retrieval, data visualization and manipulation, data integration through the development of integrated analytical tools, and tools for electronic collaboration, as well as computational and mathematical research including the development of structural, functional, integrative, and analytical models and simulations.

This program will use the NIH Exploratory/Developmental (R21) grant mechanism. <S2S>

Deadline(s): 16/06/2009

Weekly Bulletin

Research School of Physics and Engineering



DEADLINE NOTE

This program will expire on September 8, 2009.

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?88142

American Association for the Advancement of Science

Program Number: 02590

Title: Philip Hauge Abelson Prize

E-mail: snelson@aaas.org

Program URL:

<http://www.aaas.org/aboutaaas/awards/abelson/index.shtml>

A \$5,000 prize is offered annually to a public servant, in recognition of sustained exceptional contributions to advancing science, or to a scientist whose career has been distinguished both for scientific achievement and other notable services to the scientific community.

Deadline(s): 01/09/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?02590

American Association for the Advancement of Science

Program Number: 02603

Title: Kavli Science Journalism Awards

E-mail: media@aaas.org

Program URL: <http://www.aaas.org/aboutaaas/awards/sja/>

Awards are made to recognize outstanding reporting for a general audience, and to honor individuals for their coverage of the sciences, engineering, and mathematics. Awards will be presented in the following categories: Large Newspapers, Small Newspapers, Magazines, Television, Radio, Online, and Children's Science News. Awardees are reimbursed for reasonable travel and hotel expenses to attend the sponsor's annual meeting to accept the award.

Deadline(s): 01/08/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?02603

American Association for the Advancement of Science

Program Number: 09623

Title: Scientific Freedom and Responsibility Award

E-mail: drunkle@aaas.org

Program URL:

<http://www.aaas.org/aboutaaas/awards/freedom/index.shtml>

A \$5,000 prize is awarded to honor scientists and engineers whose exemplary actions have served to foster scientific freedom and responsibility. The prize is presented at the sponsor's Annual Meeting.

Deadline(s): 01/09/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?09623

American Association for the Advancement of Science

Program Number: 09624

Title: Award for Public Understanding of Science and Technology

E-mail: jkass@aaas.org

Program URL:

<http://www.aaas.org/aboutaaas/awards/public/index.shtml>

A \$5,000 award is given to recognize scientists and engineers who make outstanding contributions to the "popularization of science." The prize is awarded at the sponsor's Annual Meeting; reimbursement for reasonable travel and hotel expenses is provided

Deadline(s): 15/08/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?09624

American Association for the Advancement of Science

Program Number: 13782

Title: AAAS Award for International Scientific Cooperation

E-mail: lstroud@aaas.org

Program URL:

<http://www.aaas.org/aboutaaas/awards/int/index.shtml>

A \$5,000 award is given to an individual or a limited number of individuals in the scientific and engineering community for making an outstanding contribution to furthering international cooperation in science and engineering. A commemorative plaque, complimentary registration, and reimbursement for reasonable travel and hotel expenses to attend the AAAS Annual Meeting are given to the recipient.

Deadline(s): 01/09/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?13782

Weekly Bulletin

Research School of Physics and Engineering



American Association for the Advancement of Science

Program Number: 41341

Title: GE & Science Prize for Young Life Scientists

E-mail:

Program URL:

<http://www.sciencemag.org/feature/data/prizes/ge/howto.dtl>

Support is provided to scientists at the beginning of their careers. A prize will recognize outstanding graduate students in molecular biology, from all regions of the world. This international prize will be awarded for the most outstanding thesis in the general area of molecular biology. All regional winners will compete for the grand prize of US \$25,000.

Deadline(s): 01/08/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?41341

Optical Society of America

Program Number: 83924

Title: Joseph W. Goodman Book Writing Award

E-mail: awards@osa.org

Program URL:

<http://www.osa.org/aboutosa/awards/osaawards/awardsdesc/goodmanbookaward/default.aspx>

The sponsor provides an award to recognize authorship of an outstanding book in the field of optics and photonics, published in the last six years, that has contributed significantly to research, teaching, or the optics and photonics industry.

Deadline(s): 01/10/2009

DEADLINE NOTE

This award is presented on a bi-annual basis.

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?83924