

Weekly Bulletin

Research School of Physics and Engineering



Volume 35 Number 10
20 – 26 March 2009

SCHOOL COLLOQUIUM

Tuesday 24 March 2009

4.00pm

“Subcellular Surgery and Nanosurgery”

by Professor Eric Mazur

Physics Department, Harvard University, USA

Finkel Lecture Theatre, JCSMR

Drinks and Light Refreshments will be provided in

the RSPSE Link Tea Room after the Colloquium

ALL WELCOME

SCHOOL SEMINARS

Nonlinear Physics Centre Seminar

Wednesday 25 March 2009

11.00am

“Quantum Phase Transitions in Cavity QED and Nonlinearity”

by Ms Soi-Chan Lei

National Tsing-Hua University, Taiwan

Link Building Seminar Room, Oliphant Building

ALL WELCOME

Plasma Physics Seminar

Thursday 26 March 2009

11.00am

“Pellet-Fuelling and Pellet-Plasma Interactions of Magnetic Confinement Machines”

by Dr Paraskevas Lalouis, Principal Research Scientist at the Institute of Electronic Structure and Laser-FORTH, Heraklion, Crete, Greece.

Dr Lalouis has worked on nonlinear laser-plasma interaction dynamics and unipolar arcs and currently works on tokamak plasma computations: pellet fuelling of magnetically confined reactors, open magnetic systems for a high flux neutron sources, and tokamak equilibrium and transport codes.

Link Building Seminar Room, Oliphant Building

ALL WELCOME

STAFF MOVEMENTS

Dr Tibor Kibédi, Nuclear Physics Department, will be away from 21 March - 8 April. During this time Dr Kibédi will be attending, as the Australian representative, the Technical Meeting of the International Network of Nuclear Structure and Decay Data Evaluators held at the IAEA in Vienna, Austria and also, as an invited lecture, the ENSDF-2009 Workshop organised for new European nuclear structure data evaluators, held in Bucharest, Romania.

GRANT AND AWARDS

American Association for the Advancement of Science

Program Number: 20173

Title: Newcomb Cleveland Prize

E-mail: skihara@aaas.org

Program URL:

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

A \$25,000 prize is awarded to the author or authors of an outstanding paper published in the Research Articles or Reports sections of "Science."

Deadline(s): 30/06/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?20173

Science Foundation Ireland

Program Number: 73524

Title: Research Professor Recruitment Award (Temporarily Suspended)

E-mail: info@sfi.ie

Web Site: <http://www.sfi.ie>

Program URL:

http://www.sfi.ie/content/content.asp?section_id=574&language_id=1

Temporarily Suspended. The sponsor provides support to assist research bodies in attracting outstanding scientists to their institutions from outside the state. The sponsor will provide funding of EUR 500k per annum for up to two years to the host institutions for support of the individual, research team and research costs. SFI supports research in the fields underpinning biotechnology and information and communications technology.

Deadline(s):

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DEADLINE NOTE

There are no deadlines for this programme. The sponsor will normally provide a decision within 4-6 weeks.

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?73524

Lawrence Berkeley National Laboratory

Program Number: 83702

Title: ALS Doctoral Fellowships in Residence

E-mail: areza@lbl.gov

Web Site: <http://www->

[als.lbl.gov/als/fellowships/index.html](http://www-als.lbl.gov/als/fellowships/index.html)

Program URL:

<http://www.als.lbl.gov/als/fellowships/appform.pdf>

The sponsor offers one-year fellowships to allow beginning researchers to work at the frontier of synchrotron radiation research and to help advance state-of-the-art applications. **Deadline(s): 31/07/2009**

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?83702

Electrochemical Society

Program Number: 95023

Title: Fullerenes, Nanotubes, and Carbon Nanostructures Division Richard E. Smalley Research Award

E-mail: awards@electrochem.org

Web Site:

http://www.electrochem.org/awards/division/division_award_s.htm#

Program URL:

http://www.electrochem.org/awards/division/rules/full_small_e_y_rules.htm

The sponsor provides an award to encourage excellence in fullerenes, nanotubes and carbon nanostructures research. The Award is intended to recognize in a broad sense, those persons who have made outstanding contributions to the understanding and applications of fullerenes.

Deadline(s): 01/07/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?95023

American Physical Society

Program Number: 01466

Title: Julius Edgar Lilienfeld Prize

E-mail: honors@aps.org

Web Site: <http://www.aps.org>

Program URL:

<http://www.aps.org/programs/honors/prizes/lilienfeld.cfm>

A prize of \$10,000 is offered for the most outstanding contribution to physics by an individual who also has exceptional skills in lecturing to diverse audiences.

Deadline(s): 01/07/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?01466

American Physical Society

Program Number: 01470

Title: Polymer Physics Prize

E-mail: honors@aps.org

Web Site: <http://www.aps.org>

Program URL:

<http://www.aps.org/programs/honors/prizes/polymer.cfm>

A prize of \$10,000 recognizes outstanding accomplishment and excellence of contributions in polymer physics research.

Deadline(s): 01/07/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?01470

American Physical Society

Program Number: 01473

Title: Dannie Heineman Prize for Mathematical Physics

E-mail: honors@aps.org

Web Site: <http://www.aps.org>

Program URL:

<http://www.aps.org/programs/honors/prizes/heineman.cfm>

A prize of \$10,000 recognizes outstanding publications in the field of mathematical physics. Eligible applicants are scientists from any nation.

Deadline(s): 01/07/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?01473

American Physical Society

Program Number: 01474

Title: Davisson-Germer Prize in Atomic or Surface Physics

E-mail: honors@aps.org

Web Site: <http://www.aps.org>

Program URL:

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<http://www.aps.org/programs/honors/prizes/davissongermer.cfm>

A prize of \$5,000 and a certificate is awarded to recognize and encourage outstanding work in atomic physics or surface physics.

Deadline(s): 01/07/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?01474

American Physical Society

Program Number: 01475

Title: Oliver E. Buckley Condensed Matter Prize

E-mail: honors@aps.org

Web Site: <http://www.aps.org>

Program URL:

<http://www.aps.org/programs/honors/prizes/buckely.cfm>

A prize of \$10,000 recognizes outstanding theoretical or experimental contributions to condensed matter physics. Each prize shall be awarded for a most important contribution to the advancement of knowledge in condensed matter physics.

Deadline(s): 01/07/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?01475

American Physical Society

Program Number: 01478

Title: Tom W. Bonner Prize in Nuclear Physics

E-mail: honors@aps.org

Web Site: <http://www.aps.org>

Program URL:

<http://www.aps.org/programs/honors/prizes/bonner.cfm>

A prize of \$10,000 recognizes outstanding experimental research in nuclear physics, including the development of a method, technique, or device that significantly contributes in a general way to nuclear physics research. Nominations are open to physicists whose work in nuclear physics is primarily experimental or a particularly outstanding piece of theoretical work.

Deadline(s): 01/07/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?01478

American Physical Society

Program Number: 01482

Title: Max Delbruck Prize in Biological Physics

E-mail: honors@aps.org

Web Site: <http://www.aps.org>

Program URL:

<http://www.aps.org/programs/honors/prizes/delbruck.cfm>

A prize of \$10,000 is awarded in even-numbered years to recognize outstanding achievement in biological physics research. Eligible nominees are scientists of all nationalities regardless of the geographical site at which the work was done. The sponsor also provides a certificate and travel expenses to the meeting at which the award is bestowed.

Deadline(s): 01/07/2009

DEADLINE NOTE

The prize is awarded biennially in even-numbered years.

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?01482

American Physical Society

Program Number: 01682

Title: Earle K. Plyler Prize for Molecular Spectroscopy

E-mail: honors@aps.org

Web Site: <http://www.aps.org>

Program URL:

<http://www.aps.org/programs/honors/prizes/plyler.cfm>

A prize of \$10,000 recognizes notable contributions to the field of molecular spectroscopy.

Deadline(s): 01/07/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?01682

American Physical Society

Program Number: 01688

Title: Arthur L. Schawlow Prize in Laser Science

E-mail: honors@aps.org

Web Site: <http://www.aps.org>

Program URL:

<http://www.aps.org/programs/honors/prizes/schawlow.cfm>

A prize of \$10,000 recognizes outstanding contributions to basic research that uses lasers to advance knowledge of the fundamental physical properties of materials and their interaction with light.

Deadline(s): 01/07/2009

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Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?01688

American Physical Society

Program Number: 01690

Title: Robert R. Wilson Prize

E-mail: honors@aps.org

Web Site: <http://www.aps.org>

Program URL:

<http://www.aps.org/programs/honors/prizes/wilson.cfm>

A prize of \$7,500 recognizes achievement in the physics of particle accelerators. Prizes are normally awarded for contributions made at an early stage of the recipients' careers.

Deadline(s): 01/07/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?01690

American Physical Society

Program Number: 08743

Title: Aneesur Rahman Prize for Computational Physics

E-mail: honors@aps.org

Web Site: <http://www.aps.org>

Program URL:

<http://www.aps.org/programs/honors/prizes/rahman.cfm>

A prize of \$5,000 recognizes and encourages outstanding achievement in computational physics research.

Deadline(s): 01/07/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?08743

American Physical Society

Program Number: 27670

Title: Lars Onsager Prize

E-mail: honors@aps.org

Web Site: <http://www.aps.org>

Program URL:

<http://www.aps.org/programs/honors/prizes/onsager.cfm>

The sponsor awards a \$15,000 prize annually to recognize outstanding research in theoretical statistical physics including the quantum fluids. The prize is open to researchers in statistical physics covering a wide range of physical phenomena, as long as the nominee is active at the time of the award.

Deadline(s): 01/07/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?27670

American Physical Society

Program Number: 30184

Title: Hans A. Bethe Prize

E-mail: honors@aps.org

Web Site: <http://www.aps.org>

Program URL:

<http://www.aps.org/programs/honors/prizes/bethe.cfm>

A prize of \$10,000 is to be awarded annually for outstanding work in theory, experiment or observation in the areas of astrophysics, nuclear physics, nuclear astrophysics, or closely related fields. Scientists world-wide are eligible.

Deadline(s): 01/07/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?30184

American Physical Society

Program Number: 64268

Title: James C. McGroddy Prize for New Materials

E-mail: honors@aps.org

Web Site: <http://www.aps.org>

Program URL:

<http://www.aps.org/programs/honors/prizes/mcgroddy.cfm>

The sponsor provides support for a \$9,000 prize to recognize and encourage outstanding achievement in the science and application of new materials. Eligible nominees are scientists of all nationalities irrespective of where their work has been carried out. A certificate and travel expenses to the meeting where the prize is bestowed are also awarded.

Deadline(s): 01/07/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?64268

American Physical Society

Program Number: 87155

Title: Einstein Prize (Temporarily Suspended)

E-mail: honors@aps.org

Web Site: <http://www.aps.org>

Program URL:

<http://www.aps.org/programs/honors/prizes/einstein.cfm>

Temporarily suspended. The sponsor provides an award of \$10,000 to recognize outstanding accomplishments in the field of gravitational

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physics.

Deadline(s):

DEADLINE NOTE

This award is presented biennially in odd-numbered years.

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?87155