

Weekly Bulletin

Research School of Physics and Engineering



Volume 35 Number 41

30 October 5 November 2009

SCHOOL SEMINAR PROGRAM

Thursday 5 November 2009

4.00pm

“Optical Trapping and Guiding Particles in Air”

by Dr Andrei Rode, Laser Physics Centre, RSPE

Leonard Huxley Lecture Theatre

Drinks and light refreshments will be provided in

the RSPSE Link Tea Room after the Seminar

All Welcome

SCHOOL SEMINARS

Nonlinear Physics Centre Seminar

Friday 30 October 2009

2.00pm

“Controlling light with plasmonic nanostructures”

by Professor Anatoly V. Zayats

Centre for Nanostructured Media, IRCEP

The Queen's University of Belfast, United Kingdom.

<http://www.nano-optics.org.uk>

Link Building Seminar Room, Oliphant Building

Nonlinear Physics Centre Seminar

Monday 2 November 2009

11.00am

“Nanostructured materials and assemblies as low-dimensional plasmon and Raman structures”

by Vladimir V. Tsukruk

School of Materials Science and Engineering &

School of Polymer, Textile, and Fiber Engineering;

Georgia Institute of Technology, Atlanta, GA

30332

vladimir@mse.gatech.edu, <http://polysurf.mse.gatech.edu/>

Link Building Seminar Room, Oliphant Building

Nonlinear Physics Centre Seminar

Monday 2 November 2009

2.00pm

“Plasmonic nanoantenna arrays for nanophotonic and biosensing applications”

by Professor Anatoly V. Zayats

Centre for Nanostructured Media, IRCEP

The Queen's University of Belfast, United

Kingdom. <http://www.nano-optics.org.uk>

Link Building Seminar Room, Oliphant Building

THE SECOND CONFERENCE OF ADVANCED PHYSICS

Final Honours Seminars

The conference program will span a broad range of cutting edge physics from across the Research School of Physics and Engineering and beyond.

Monday 9th and Tuesday 10th November 2009

1pm - 5pm

MONDAY 9 NOVEMBER

1:00 - Jennifer Zhu - Electronic Materials Engineering

1:30 - Andrew Wade - Department of Quantum Science

2:00 - Lachlan Nicholls - Department of Quantum Science

2:30 - Johnny Seongjoon Yi - Theoretical Physics

2:50 tea and cake break

3:30 - Robert Evans - Atomic and Molecular Physics

4:00 - Victoria Hudepohl - Physical and Theoretical Chemistry, RSC

4:30 - Andrew Manning - Atomic and Molecular Physics

TUESDAY 10 NOVEMBER

1:00 - Bill Noble - Atomic and Molecular Physics

1:30 - Mathew Creese - Plasma Physics Laboratory

2:00 - Kirsty Hannam - Atomic and Molecular Physics

2:30 - Ryan Holmes - Department of Applied Mathematics

2:50 tea and cake break

3:30 - Justin Bewsher - Department of Quantum Science

4:00 - Gordon McDonald - Department of Quantum Science

4:30 - Prabha Thanarajan - Biophysics Group, RSBS

Huxley Lecture Theatre, RSPE

Weekly Bulletin

Research School of Physics and Engineering



STAFF MOVEMENTS

Professor Stephen Buckman (CAMS/AMPL) will attend and Chair a meeting of the Asia Pacific Atomic Data Network at the National Fusion Research Institute in Daejeon, Korea from 1 – 3 November.

Professor Murray Batchelor, Department of Theoretical Physics, will be absent from 1 – 13 November to give an invited talk at the KITPC workshop on Condensed Matter Physics of Cold Atoms, Beijing. He will also visit the Institute of Physics, Chinese Academy of Sciences, Beijing. Professor Peter Bouwknecht will be Acting Head.

NLPC VISITORS

Dr Alexander Savin from the Semenov Institute of Chemical Physics, Russian Academy of Sciences, is visiting NLPC for a 3 month staff appointment. Dr Savin is here until 27 January 2010 and can be contact on ext 59139.

Professor Anatoly Zayats, a visiting fellow from the Centre for Nanostructured Media, The Queen's University of Belfast, is here for a ten day visit to NLPC. Professor Anatoly Zayats can be contacted on ext 59079.

WELCOME

Please welcome Dr Reiner Vianden from Bonn University, Germany, to the School. Dr Vianden will be visiting Dr Timmers, Dr Ridgway and Professor Byrne until 9 November 2009.

GRANTS & AWARDS

Berthold Leibinger Stiftung

Program Number: 03690

Title: Innovationspreis

E-mail: sven.ederer@leibinger-stiftung.de

Program URL: <http://www.leibinger-stiftung.de/2.innovationspreis.html>

The sponsor provides one of the highest remunerated international innovation prizes for laser technology.

Deadline(s): 01/12/2009

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?03690

Berthold Leibinger Stiftung

Program Number: 03874

Title: Zukunftspreis

E-mail: sven.ederer@leibinger-stiftung.de

Program URL: <http://www.leibinger-stiftung.de/2.zukunftspreis.html>

The sponsor recognizes outstanding milestones in research concerning the application or generation of laser light.

Deadline(s):

DEADLINE NOTE

There is no application process for the Berthold Leibinger Zukunftspreis. The jury selects the winner independently from applications and recommendations.

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?03874

Woods Hole Oceanographic Institution

Program Number: 07682

Title: Postdoctoral Scholarship Program

E-mail: postdoc@whoi.edu

Web Site: <http://www.whoi.edu/page.do?pid=8023>

Program URL:

http://www.whoi.edu/cms/files/app_pd_eeo_09_44743.pdf

The sponsor offers in-residence fellowships in the fields of chemistry, engineering, geology, geophysics, mathematics, meteorology, physics, biology, and oceanography.

Deadline(s): 15/01/2010

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?07682

McMaster University

Program Number: 99341

Title: Post-Doctoral Fellowship (Temporarily Suspended)

E-mail: Temporarily suspended.

An opening for a Post-Doctoral Fellow is anticipated in the Department of Mathematics & Statistics at McMaster University. The fellow will work in the research group of Dr Protas, and the focus of this industry-funded position will be continued research on integration of Optimization Theory and Computational Fluid Dynamics with

Weekly Bulletin



Research School of Physics and Engineering

the goal to develop strategies for optimization of multi-physics fluid systems. In addition to substantial experience in scientific computing, an ideal candidate would also have background in Computational/Theoretical Fluid Dynamics and Optimization/Control Theory. This position may also involve some teaching responsibilities.

Deadline(s): 04/01/2010

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?99341

IBM Thomas J. Watson Research Center

Program Number: 04334

Title: Herman Goldstine Postdoctoral Fellowship in Mathematical Sciences

E-mail: goldpost@watson.ibm.com

Program URL:

http://domino.research.ibm.com/comm/research_projects.nsf/pages/goldstine.index.html

The sponsor supports a fellowship for research in mathematical and computer sciences. The fellowship provides scientists of outstanding ability an opportunity to advance their scholarship as resident department members at the Research Center. The Research Center is located in Westchester County, less than an hour north of New York City.

Deadline(s): 06/01/2010

DEADLINE NOTE

Applications will be accepted between October 26, 2009 and January 6, 2010 via e-mail only.

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?04334

American Nuclear Society

Program Number: 71479

Title: Henry DeWolf Smyth Nuclear Statesman Award

E-mail:

Program URL: <http://www.ans.org/honors/va-smyth>

The sponsor makes an award to recognize outstanding and statesmanlike contributions to the many aspects of nuclear energy activities. The award is presented at the sponsor's annual meeting in even years and at the NEI Nuclear Energy Assembly in odd years.

Deadline(s): 28/02/2010

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?71479

Astronomical Society of the Pacific

Program Number: 71770

Title: Maria and Eric Muhlmann Award

E-mail: awards@astrosociety.org

Program URL:

<http://www.astrosociety.org/membership/awards/muhlmann.html>

An award is given annually for recent significant observational results made possible by innovative advances in astronomical instrumentation, software or observational infrastructure. The award will be made to the scientist(s) who acquired the results, to the builder of the instrument/software (if a different individual), or to both as appropriate. Individuals as well as small teams of individuals are eligible. The award will be granted for significant advances in any areas of astronomy, without restriction to wavelength or space/ground-based observations. Nominations will be accepted from any member of the astronomical community.

Deadline(s): 01/01/2010

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?71770

American Ceramic Society

Program Number: 75906

Title: Robert L. Coble Award for Young Scholars

E-mail: mstout@ceramics.org

Program URL: <http://ceramics.org/acers-community/award-winners-resources/>

The sponsor provides an award to recognize an outstanding scientist who is conducting research in academia, industry, or at a government-funded laboratory.

Deadline(s): 15/01/2010

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?75906

Electrochemical Society

Program Number: 94799

Title: Gordon E. Moore Medal for Outstanding Achievement in Solid State Science and Technology

E-mail: awards@electrochem.org

Weekly Bulletin

Research School of Physics and Engineering



Web Site:

http://www.electrochem.org/awards/ecs/ecs_awards.htm

Program URL:

http://www.electrochem.org/awards/ecs/rules/ssst_rules.htm

The sponsor provides an award to recognize contributions to the field of solid state science and technology.

Deadline(s): 25/04/2010

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?94799

Electrochemical Society

Program Number: 94800

Title: Charles W. Tobias Young Investigator Award

E-mail: awards@electrochem.org

Web Site:

http://www.electrochem.org/awards/ecs/ecs_awards.htm

Program URL:

http://www.electrochem.org/awards/ecs/rules/tobias_rules.htm

The sponsor provides an award to recognize outstanding scientific and/or engineering work in fundamental or applied electrochemistry or solid-state science and technology by a young scientist or engineer.

Deadline(s): 15/01/2010

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?94800

Electrochemical Society

Program Number: 94801

Title: Oronzio de Nora Industrial Electrochemistry Fellowship

E-mail: awards@electrochem.org

Program URL:

http://www.electrochem.org/awards/ecs/ecs_awards.htm

The sponsor provides a one-year fellowship to a postdoctoral scientist or engineer for research in the field of industrial electrochemistry.

Deadline(s): 01/01/2010

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?94801

Electrochemical Society

Program Number: 94802

Title: Battery Division Research Award

E-mail: awards@electrochem.org

Program URL:

http://www.electrochem.org/awards/division/division_awards.htm#a

The sponsor provides an award to encourage excellence in battery and fuel cell research, and encourage their publication in the publications of The Electrochemical Society.

Deadline(s): 15/03/2010

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?94802

Electrochemical Society

Program Number: 94803

Title: Battery Division Technology Award

E-mail: awards@electrochem.org

Program URL:

http://www.electrochem.org/awards/division/division_awards.htm#b

The sponsor provides an award to encourage the development of battery and fuel cell technology, and to recognize significant achievements in this area. The Award is given to those individuals who have made outstanding contributions to the technology of primary and secondary cells, batteries, and/or fuel cells.

Deadline(s): 15/03/2010

Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?94803

Electrochemical Society

Program Number: 95014

Title: European Section Alessandro Volta Medal Award

E-mail: awards@electrochem.org

Web Site:

http://www.electrochem.org/awards/section/section_awards.htm#g

Program URL:

http://www.electrochem.org/awards/section/rules/euro_volta_rules.htm

The sponsor provides an award to recognize excellence in electrochemistry and solid state science and technology research. The Award shall consist of a silver medal and a check for \$500.

Deadline(s): 15/03/2010

DEADLINE NOTE

This award is presented biennially in the fall of even years.

Weekly Bulletin

Research School of Physics and Engineering



Link to full program description:

http://australia.infoed.org/spin/spin_prog.asp?95014