

# Weekly Bulletin

Research School of Physics and Engineering



**Volume 36 Number 16**

**30 April – 6 May 2010**

## CONGRATULATIONS

Professor Nail Akhmediev has been granted an Alexander von Humboldt Award. It is also known as the “Humboldt Prize” or “Humboldt Research Award”. The award is named after the German naturalist and explorer Alexander von Humboldt. Past Winners in Physics include: Nicolaas Bloembergen, Subrahmanyan Chandrasekhar, Roy J. Glauber, John L. Hall, Theodor W. Hänsch, Herbert Kroemer, Arthur L. Schawlow, Julian Schwinger and a number of other Nobel Prize winners.

Nail has been elected as a recipient of this scientific prize for his pioneering contributions to nonlinear dynamics, the theory of dissipative solitons and rogue waves.

One of the fundamental solutions of the nonlinear Schrödinger equation with many practical applications is named after him. The Alexander von Humboldt Foundation is an organisation for promoting international cooperation between German institutes of higher education and leading academics from around the world.

Awards from the foundation are considered to be among the most prestigious awards in the world.

## SCHOOL SEMINAR PROGRAM

**Thursday 6 May 2010**

4.00pm

“The Mystery of Rogue Waves”

by Professor Nail Akhmediev, OSG

Leonard Huxley Lecture Theatre

**Drinks and Light Refreshments will be provided in the RSPSE Link Tea Room after the Seminar**

All Welcome

## PHYSICS EDUCATION GROUP

We meet in the RSPE tea room every Friday 4-5pm. All members of the RSPE community are encouraged to attend and participate in discussions about current and future physics education at

ANU.

Contact: [craig.savage@anu.edu.au](mailto:craig.savage@anu.edu.au)

## STAFF MOVEMENTS

A delegation of seven Australian researchers travelled to the National Fusion Research Institute (NFRI) in Daejeon, South Korea, under an Australia-Korea Foundation grant “Feasibility study of Australia-Korean research in fusion science centred on the KSTAR superconducting tokamak”. On Tuesday 27 April the delegation discussed collaboration on research related to Korea’s fusion power program during a full-day meeting with Korean researchers at NFRI. South Korea is a full partner in the international fusion flagship experiment ITER being constructed in France, and its new state-of-the-art tokamak KSTAR tokamak has recently commenced operation at NFRI.

The delegation was led by Professor Robert Dewar of the Plasma Theory and Modelling (PTM) Group of the ANU Plasma Research Laboratory (PRL). The other delegates were Professor John Howard, Head of Toroidal Plasma Physics Division PRL; Dr Boyd Blackwell, Director of the H-1 National Plasma Fusion Facility, PRL; Dr Henry Gardner, Head of the School of Computer Science, ANU; Dr Matthew Hole, ARC Future Fellow and Deputy Head of the PTM Group, PRL; Dr Greg von Nessi of the PTM Group; and Dr Alex Samarian, an ARC QE II Fellow in the School of Physics at the University of Sydney.

## GRANTS & AWARDS

**Forest & Wood Products Australia Limited**

Program Number: 11242

Title: Innovative use of thermal mass in lightweight timber framed residential construction systems

E-mail: [info@fwprdc.org.au](mailto:info@fwprdc.org.au)

<<mailto:info@fwprdc.org.au>>

Web Site: <http://www.fwpa.com.au/opportunities.aspx?s=2>

Program URL:

<http://www.fwpa.com.au/Resources/RD/opportunities/ROA%20Sensitivity%20Study%20-%20lightweight%20and%20>

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<http://www.fwpa.com.au/Resources/RD/opportunities/ROA%20Sensitivity%20Study%20-%20lightweight%20and%25>

The sponsor invites research project proposals from suitably qualified and experienced practitioners to undertake a project to investigate the innovative use of thermal mass in lightweight timber framed residential construction and provide results that assist in informing designers, thermal assessors, builders and regulators who are looking to achieve the optimum energy efficiency performance of their home designs (6 Star and better). FWPA funding support will be limited to a maximum of 50% of total project costs (cash and in-kind).

Deadline(s): 21/05/2010

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?11242](http://australia.infoed.org/spin/spin_prog.asp?11242)

## **Monbusho (Ministry of Education, Science and Culture)**

Program Number: 60832

Title: Undergraduate Student Scholarship

E-mail:

Web Site:

<http://www.studyjapan.go.jp/en/toj/toj0307e.html#1>

Program URL:

[http://www.studyjapan.go.jp/en/toj/pdf/gakubu\\_e.pdf](http://www.studyjapan.go.jp/en/toj/pdf/gakubu_e.pdf)

The sponsor offers funding for undergraduate students who wish to study at Japanese universities.

Deadline(s):

DEADLINE NOTE

&lt;p&gt;Application deadlines vary according to the Consulate to which the applicant submits an application. Applicants should consult their local Consulate (see:

[http://www.studyjapan.go.jp/en/toj/pdf/gakubu\\_e.pdf](http://www.studyjapan.go.jp/en/toj/pdf/gakubu_e.pdf).)&lt;p&gt;

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?60832](http://australia.infoed.org/spin/spin_prog.asp?60832)

## **Monbusho (Ministry of Education, Science and Culture)**

Program Number: 87245

Title: College of Technology Student Scholarship

E-mail:

Web Site:

<http://www.studyjapan.go.jp/en/toj/toj0307e.html#1>

Program URL:

[http://www.studyjapan.go.jp/en/toj/pdf/kosen\\_e.pdf](http://www.studyjapan.go.jp/en/toj/pdf/kosen_e.pdf)

The sponsor provides scholarships to students who wish to study at a Japanese college of technology. The Applicant must have been born between April 2, 1989 and April 1, 1994.

Deadline(s):

DEADLINE NOTE

Application deadlines vary according to the Consulate to which the applicant submits an application. Applicants should consult their local Consulate (see:

[http://www.mofa.go.jp/about/emb\\_cons/mofaserv.html](http://www.mofa.go.jp/about/emb_cons/mofaserv.html).)&lt;p&gt;

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?87245](http://australia.infoed.org/spin/spin_prog.asp?87245)

## **Menzies (Sir Robert) Memorial Foundation**

Program Number: 91799

Title: Menzies Memorial Scholarship in Engineering

E-mail: [menzies@vicnet.net.au](mailto:menzies@vicnet.net.au)

<<mailto:menzies@vicnet.net.au>>

Web Site: <http://www.menziesfoundation.org.au/>

Program URL:

[http://www.menziesfoundation.org.au/scholarships/engine/Pr osp\\_Eng.pdf](http://www.menziesfoundation.org.au/scholarships/engine/Pr osp_Eng.pdf)

The sponsor offers one post-graduate scholarship in engineering to Australian students for tenure at universities in the United Kingdom. The universities principally in mind are those of Imperial College, Oxford and Cambridge. The Trustees will, however, receive and treat on merit applications for other universities or other institutions.

Deadline(s): 31/07/2010

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?91799](http://australia.infoed.org/spin/spin_prog.asp?91799)

## **Institute of Acoustics**

Program Number: 11434

Title: Institute of Acoustics Engineering Medal

E-mail: [ioa@ioa.org.uk](mailto:ioa@ioa.org.uk) <<mailto:ioa@ioa.org.uk>>

Web Site: <http://www.ioa.org.uk/>

Program URL: <http://www.ioa.org.uk/medals-and-awards/>

SYNOPSIS: This Medal is awarded to registered engineers at Chartered, Incorporated or Engineering Technician grade in recognition of

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their outstanding contribution in the field of acoustical engineering.

Deadline(s): 31/01/2010

## DEADLINE NOTE

The nominations deadline for 2010 is January 31, 2010.

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?11434](http://australia.infoed.org/spin/spin_prog.asp?11434)

## Minerals, Metals and Materials Society

Program Number: 11559

Title: Acta Materialia Gold Medal Award

E-mail: [awards@tms.org](mailto:awards@tms.org) <<mailto:awards@tms.org>>

Web Site: <http://www.tms.org/society/tmsawards.aspx>

Program URL: <http://www.tms.org/Society/nomination-form.pdf>

The sponsor recognizes an outstanding contributor to materials science.

Deadline(s): 31/12/2010

Link to full program description:

[http://australia.infoed.org/spin/spin\\_prog.asp?11559](http://australia.infoed.org/spin/spin_prog.asp?11559)