



Research School of Physics and Engineering

Weekly newsletter | Volume 39 Number 27 | 12 – 18 July 2013

DIRECTOR'S OFFICE

The Director will be presenting talks at two conferences in Japan between July 16- 23. He will deliver a Plenary talk at the 17th International Workshop on Positron and Positronium Physics, Kanazawa (19-22 July), and an Invited talk at the 12th Asia Pacific Physics Conference, Chiba (15-19 July).

Professor Ken Baldwin will be acting Director during his absence.

SCHOOL SEMINAR

Nonlinear Photonic Crystals for Optical Frequency Conversion

Dr Yan Sheng

Laser Physics Centre, RSPE, ANU

4pm, Thursday 18 July

Leonard Huxley Lecture Theatre

Refreshments will be held in the Tea Room after the Seminar (around 5pm)

ALL WELCOME

WELCOME

Nuclear Physics Department

Welcomes **Dr Chandani Palshetkar** a new Postdoctoral fellow with the Reaction Dynamics Group. Dr Palshetkar will be working with the group to investigate the breakup of weakly bound nuclei, to investigate reactions forming heavy elements and to understand deep-sub-barrier fusion inhibition and the microscopic mechanism of the transition to irreversible outcomes in nuclear reactions. Dr Palshetkar is located in office 2.51, ext.no 52096.

Please also welcome **Dr Toktam Ebadi**, Scientific programmer, to the Department. Dr Ebadi will be working closely with the Fusion/Fission group to update and expand upon analysis and simulation software that is vital to the work of the group. Dr Ebadi is located in office 2.45, ext. no 52077.

Electronics Material Engineering

Welcomes **Mr Fan Wang** who has joined us from University of New South Wales where he pursued his PhD on the subject of Spectroscopy Research of Optical Trapped Semiconductor Nanowires. Fan will be sitting in Cockcroft Bld room C4.64. He will be working with Professor Chennupati Jagadish and group in the area of Time Resolved and Micro PL measurement.

CONGRATULATIONS

Congratulations to **Boshra Afra** from EME for winning the €250 Oral Presentation at the Radiation Effects in Insulators conference (REI 13) in Helsinki, Finland.

DEPARTMENTAL SEMINAR

Applied Mathematics

Applications for exact discrete projective Transforms

Dr Imants Svalbe

School of Physics, Monash University

3.17pm Wednesday 17 July

Le Couteur Building Seminar Room 3.17

STAFF MOVEMENTS

Nuclear Physics Department

Dr Anton Wallner will be overseas in the period 5 - 28 July 2013. He will be attending the Technical Meeting on "Toward a New Evaluation of Neutron Standards" being held at the International Atomic Energy Agency, Vienna, Austria.

Electronics Material Engineering

Professor Hoe Tan will be an invited speaker at CMOS Emerging Technologies Research in British Columbia Canada 16-19 July 2013 and attending the 19th American Conference on Crystal Growth and Epitaxy 21-26 July in Keystone Colorado.

Theoretical Physics Department

Professor Mukunda Das will visit the University of Wollongong on 15 July and give a seminar on Zero-bias Tunnelling Anomaly to a Topological Insulator.

Plasma Research Laboratory

Dr Cormac Corr is an invited speaker at the International Conference on Phenomena in Ionized Gases (ICPIG) from 14 – 19 July in Granada, Spain.

PHYSICS EDUCATION REPORT

I hope all staff involved in teaching are enjoying the teaching break. Second semester starts on Monday 22nd of July. I would like to remind staffs who have students from first semester who need to complete supplementary exams that those exams need to be completed no later than the first week of second semester. If you have not yet contacted those students needing a supplementary exam, now would be a good time to do so. The honours students have now completed their coursework and are concentrating on their projects. I will be contacting staff in the next weeks to act as examiners of this year's honours theses.

ROBERT AND HELEN CROMPTON AWARD 2013

Nominations are being sought for the Robert and Helen Crompton Award 2013.

This Award provides funding of up to \$20,000 to assist postgraduate research students enrolled at the Research School of Physics and Engineering to undertake part of their research program overseas or make a collaborative visit to an overseas institution, for 3 to 6 months.

The closing date for applications is 15th July 2013. Please e-mail applications to research.students@physics.anu.edu.au by 5pm 15th July 2013.

For enquiries, please contact Luda or Karen on research.students@physics.anu.edu.au

FRAME YOUR PHYSICS

Following on from last year "Frame your Physics" competition, the ACT branch of the AIP will again run the competition in 2013 to promote the communication of physics to a general audience. The idea is to make a video of up to 3 minutes presenting a topic in physics in an entertaining and informative way. There will be various prizes up for grabs including for high school students, schools and also for university students. We have been advertising the competition in our undergraduate courses and we encourage supervisors to promote the competition with their Honours and PhD students as well. Entries must be submitted by August 19. Further information can be obtained from the "Frame Your Physics" website at www.act.aip.org.au/Frame_Your_Physics or contact us: Andre Carvalho (andre.carvalho@anu.edu.au) and Cormac Corr (cormac.corr@anu.edu.au)

PHYSICS PROJECT MARKET DAY

On 13th August 2013 (11.30am to 2pm) there will be an opportunity for staff to showcase their research and potential projects in Melville Hall to both undergraduate students at all levels as well as graduate students. The event is being held during Science Week and will be heavily promoted by undergraduate lecturers. Hence a strong participation of the undergraduate student cohort is expected. Academics are strongly encouraged to participate in this event by preparing a poster summarizing their research projects on offer and personally attending Market Day to speak with potential students. This day has been organised in recognition of the challenges faced in attracting students to different research groups across the school. Recent feedback from students has highlighted a number of obsolete projects in the current database. Hence the school also will be taking this opportunity to refresh the RSPE online project database. Academics will be required to :

- Upload projects by July 29th via a new editable web-based interface (accessible from July 5th).
<https://physics.anu.edu.au/intranet/dbadmin/profiles/studentprojects.php>

RSVP for your attendance at Market Day (market.day.rspe@anu.edu.au) by August 1st.

- Prepare a poster or other material to display at Market Day. Posters must be printed by August 9th to assist the SCU in managing the printing load.

It should be noted that existing project database will be removed on August 1st and then the new database will go live. We are happy to discuss individual requirements for displays or demonstrations to make this a fun event during Science Week.