



## Research School of Physics and Engineering

Weekly newsletter | Volume 40 Number 25 | 21 - 25 July

### CONGRATULATIONS

I am delighted to inform you that Professor Chennupati Jagadish has been awarded the 2013 Boas Medal of the Australian Institute of Physics.

#### The citation reads:

*"For contributions to the fields of compound semiconductor optoelectronics and nanotechnology. His seminal research work in areas such as innovative materials growth, exploitation of new physics in these new materials, novel semiconductor processing to the fabrication of state-of-the-art optoelectronic devices are truly world-leading, as demonstrated by his outstanding publication record in highly prestigious international journals."*

Our heartiest congratulations to Jagadish on this prestigious award, which brings great personal honour, as well as honour to the School and University.

Well done Jagadish!

### SPECIAL SCHOOL SEMINAR



#### Demystifying the editorial process at Nature and its sister journals

**Dr Richard White**

Editorial Manager, Scientific reports  
Nature Publishing Group

**11:00am Thursday 24 July**  
Olipphant Seminar Room

Richard is Editorial Manager of the journal Scientific Reports, and was previously a Senior Editor at Nature Communications. He will discuss the relationships of the different journals in Nature Publishing Group and explain their editorial processes. He will consider issues including: preparing for submission, cover letters, dealing with reviewers, and Open Access publication.

### WELCOME

#### Nonlinear Physics Center

Welcomes Professor Alexander Khanikaev, a visiting fellow from City University of New York, USA is arriving today for a month's visit with NLPC.

He will have a desk in L1.29

Telephone – 57849

Email – [khanikaev@gmail.com](mailto:khanikaev@gmail.com)

### DIRECTOR'S COLLOQUIUM

#### FUSION À LA PROVENÇALE:

Progress towards fusion energy at ITER

**Dr David Campbell**

ITER Organisation

**12:00pm Thursday 31 July**

Leonard Huxley Lecture Theatre



For further information please see the RSPE website: <http://physics.anu.edu.au/events.php?EventID=214>

Snacks will be provided at 11:30am prior to the Colloquium in the RSPE Tea Room Oliphant Building

### RSPE CONGRATULATES OUR GRADUATING STUDENTS

#### PhD

Zohair Hussain  
Matthew McGann  
Daniel Pyke

#### Master of Energy Change

Zeba Anjum  
Carla Douglas  
Hao Liu  
Talha Zubair

#### Honours

James Frith  
Jeremy Gallant  
Hong An Le  
Hannah Smith  
Yongqian Yin

#### Master of Nuclear Science

Jesse Boylan  
Andrew Hall  
Robert Parker  
Jarred Rorke

#### Master of Photonics

Jie Wang  
Farhad Safazadeh

### 3 MINUTE THESIS COMPETITION

The RSPE [3MT](#) heat will be held next Friday (24 July). We will be having a pizza lunch from 1:15pm outside the Leonard Huxley Lecture Theatre with competition talks commencing at 2pm. Even if you are not competing come along for a free lunch and support the students who are, it might even inspire you to compete next year. If there is anyone interested in presenting and you have not yet told us please do so as soon as you can via email [rspe.hdr.sa@anu.edu.au](mailto:rspe.hdr.sa@anu.edu.au). An email was sent out this week to all students with the rules of competing if you have not received it please let us know.

## ACADEMIC PROMOTIONS 2014

The 2014 Academic Promotions round opened on **1 June 2014** and applications will close on **31 July 2014**.

Many aspects of the academic promotions round have changed this year. These changes are summarized in the [information sheet](#) on the [Academic Promotions webpage](#).

The School promotions round will be coordinated through the RSPE Director's Office with support from Tim Gray from College HR.

To apply you will need to submit one complete hard and one complete electronic copy of your application to me by **close of business on Friday, 25 July 2014**, in order for the Director to review and sign off on the applications before the closing date. Please note that Tim will lodge the endorsed Level E cases electronically to the University Promotions Committee.

Complete applications should include:

- The completed Application pro forma for the relevant promotion level which can be found on the [Academic Promotions webpage](#);
- a current CV that includes at relevant information as per the [Academic Promotions Procedure](#);
- Statements of research/creative activity, education and service contributions (one A4 page maximum for each area of contribution);
- No more than 5 pages of supporting evidence that demonstrate the quality, productivity and impact their contributions to research/creative activity, education, service or leadership; and
- Nomination of 5-7 referees depending on level applying for (level C to D).

Several information sessions for both supervisors and staff members will be held throughout May, and June. Please see the [Academic Promotions webpage](#) for information on dates, times and locations for these sessions. The first of these will be held on Tuesday 13 May.

Please don't hesitate to contact Tim Gray ([tim.gray@anu.edu.au](mailto:tim.gray@anu.edu.au) / 52580) or myself if you have any questions relating to the process.

## DEPUTY DIRECTOR TECHNOLOGY DEVELOPMENT

### Attention Technology Developers!

In conjunction with RSPE the Technology Transfer Office will be holding a series of workshops over the next few months. All staff and students are welcome.

5th August: **Establishing a Start-Up** (3 hr) - basics covered, funding, marketing and stories shared.

2nd September: **Industry Engagement** (3 hr) - A guide to presenting your ideas and maintaining relationships with industry.

The workshops run the first Tuesday of each month starting at 9:30 in the Link Seminar Room.

**For catering purposes please register with Tim Senden two days before each workshop.**

## DIRECTOR'S AWARD

Nominations are now open for the 2014 Director's Awards

Do you know someone who deserves to be nominated for a Director's award for outstanding service to the school?

The Director's awards acknowledge the service of individual staff members and/or teams above and beyond the normal requirements of their position.

All members of the RSPE community are eligible to be nominated for the awards including staff, students and visiting fellows.

The Director encourages all members of the School to discuss nominations with their heads of department and managers.

Nominations should include a citation and one paragraph supporting statement.

Nominations close **5pm Monday 12 September 2014**.

Further information:

<https://physics.anu.edu.au/intranet/directors-award.php>

Contact: RSPE Director's Office, [director.RSPE@anu.edu.au](mailto:director.RSPE@anu.edu.au)

## THE PHYSICS EDUCATION CENTRE

**The Education Spring Planning Day** will be held on the **12th of September** this year. We have three working groups who are designing our new physics curriculum and course structure. The findings of these groups will be presented in the morning of the planning day and discussed in the afternoon. This will be an important meeting for the School, and all staff and students are encouraged to put this date in their calendar.

## PHYSICS PROJECT MARKET DAY-19TH AUGUST

As part of Physics Project Market Day we request that all projects are updated on the website by **1st August**. If you want to keep current projects it is necessary to click "**Bump 2014**" which can be found through the "**Edit you profile**". If this is not performed then current projects will automatically be removed from the website.

## FROM FACILITIES & SERVICES MANAGER

If you notice anything in our buildings that doesn't seem to be working correctly, heating not working, taps and toilets, roof leaks, doors not working or electrical concerns. Please enter the job into the updated RSPE technical work request system and we will action the repairs.

<https://physics.anu.edu.au/intranet/ssrequest/>

## OHS BULLETIN

### Electrical safety

Staff and students are reminded not to repair, modify or tamper with electrical equipment in anyway, unless you're an approved person. Equipment constructed or modified must undergo a certification procedure undertaken by an approved area such as the School Electronics Unit or School Electrician. Please do not use electrical equipment overdue for testing, and if overdue bring it to the attention of your supervisor. Turn off faulty electrical equipment and unplug it. Attach and sign a 'Danger- Do Not Operate' tag (available from School Store) and bring it to the attention of your supervisor.

## DEPARTMENTAL SEMINARS

### ***Nuclear Physics Department***

**Time-dependent Hartree-Fock calculations for multi-nucleon transfer and quasi-fission processes**

***Kazuyuki Sekizawa***

University of Tsukuba, Japan

**11:00am Monday 21 July**

Nuclear Physics Seminar Room

### ***Nonlinear Physics Centre***

**Recent results on microwave metamaterials with MRI applications**

***Mr Alexey Slobozhanyuk***

Nonlinear Physics Center, ANU and ITMO University, Russia

**11:00am Tuesday 22 July**

Oliphant Building Seminar Room

**Engineering topological order for photons in bianisotropic metamaterials**

***Prof Alexander B. Khanikaev***

The City University of New York

**2:00pm Thursday 24 July**

Oliphant Building Seminar Room

### ***Electronic Materials Engineering***

**Atomic scale analysis of semiconductor nanostructures**

***Professor Paul M Koenraad***

Department of Applied Physics, COBRA, Eindhoven University of Technology, the Netherlands

**11:00am Friday 25 July**

RSPE Link Seminar Room