



Research School of Physics and Engineering

Weekly newsletter | Volume 40 Number 21 | 23 – 27 June

FROM THE DIRECTOR'S OFFICE

The Director will be presenting an invited talk at the EU Radiation Biology and Biophysics Doctoral Training Program in Lisbon, 23-26 June. Professor Tim Senden will be Acting Director 23-27 June.

CONGRATULATIONS

Congratulations to **Daniel Schauries**, PhD student in EME, who recently received the MRS Silver Graduate Student Award at the Materials Research Society (MRS) 2014 Spring Meeting in San Francisco. This Award recognises graduate students for their 'Excellence in the conduct of materials research' and 'Promise for future substantial achievement in materials research'. Daniel also won the "best student oral presentation award" at the symposium he presented.

SCHOOL SEMINAR

**Biophotonics with a twist:
the chiral Gyroid photonic
crystal in butterfly wing-scales**

Dr Gerd Schröder-Turk

Applied Mathematics, RSPE

4:00pm Thursday 26 June

Leonard Huxley Lecture Theatre

Drinks and nibbles will be held in the
RSPE Tearoom after the seminar



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.

1st July: **Licensing 101** (3 hr) - good as a refresher or for the novice.

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.

PHYSICS EDUCATION SPRING PLANNING DAY

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 interested staff are encouraged to put this date in their calendar.

PHB NEWS

1. Assoc. Professor Geoff Salem from RSC has taken over from **Paula Newitt** as the PhB program coordinator. Geoff can be contacted on: PhB.Science.Enquiries@anu.edu.au

2. Marks on first semester ASCs and ASEs are due. The deadline is **June 25th** (ready for the examiners meeting on **June 30th**).

3. A reminder to staff who mentor PhB students that it's a great time of year to catch up with your students. If you are having trouble contacting your students please let me know and I can follow up with the PhB program co-ordinator.

4. Also PhB students are now looking for projects for second semester so please make sure any projects you have listed on our project database are really available (i.e. if you unwilling to take on another student pls take down your projects). Projects listed but not available really frustrates the students, they tell all their friends and many simply stop using the database! Not good!

<http://physics.anu.edu.au/projects/>

A quick refresher on the two types of projects the PhB students take:

Advanced Studies Courses (ASC)

These projects are a full 6-unit course and run for a full semester. They can also be taken over the summer or winter break. The students are expected to complete ~150 hrs of work on this project.

Advanced Studies Extension (ASE)

These projects are extensions to subjects the student is already taking and should be ~30 hours of additional work. Some common examples of ASEs are giving the students an additional chapter or two to study or presenting a lecture on one aspect of the course.

I'm happy to answer any questions you may have about the PhB program including how best to attract these bright students to your lab.

Jodie Bradby, Physics coordinator, PhB program

FROM SCHOOL MANAGER

Parking

A few members of the School community have been parking their cars (that do not have authorised permits) for the whole day in the 2-hour parking slots intended for short-term visitors to the School. Please note that now there is a parking inspector employed full-time by the University who visits frequently. Please ensure that you have the appropriate staff or student permit and that the 2-hour limit is not exceeded.

More information on the parking guidelines and how to obtain an appropriate permit are available from <http://facilities.anu.edu.au/services/transport/guidelines>

UPDATE OF WEBPAGES

As part of an update and revamp of our webpages, we're asking people for their feedback on what the priorities of the new pages should be via the Apollo form at:

<https://apollo.anu.edu.au/apollo/default.asp?pid=8132>

FROM FACILITIES & SERVICES MANAGER

Working with children

It is a requirement that all staff and students who work with underage people that must comply with the Child Protection Policy. This includes completing an ANU Working with Children Conduct Agreement.

Working with children typically includes hosting primary and high school excursions or work experience students.

The policy and agreement can be found at:

https://policies.anu.edu.au/ppl/document/ANUP_000634

3 MINUTE THESIS COMPETITION

The [3MT](#) international research student competition is on again for 2014 and the Australian National University is currently preparing for the school heat, college and ANU finals of the [3 Minute Thesis competition](#).

The school encourages all research students to participate in this exciting and rewarding competition. To ensure you do well the school recommends that you attend as many 3MT preparatory workshops as possible such as:

26 June - [ANU 3MT workshop](#), Room N1.01, CSIT (Computer Science and Information Technology) Building 108

3 July - [Designing effective presentations](#)

8 July - [Three Minute Theatre](#)

The school's 3MT heat (including a light lunch) will be held on **24 July 2014**, followed by the College final in August ready for the final ANU 3MT competition on Wednesday 17 September 2014.

In regard to prizes on offer, for ANU college 3MT winners will receive \$1,000 research support grant and up to \$4,000 on offer for ANU final 3MT winners.

Further information: rspe.hdr.sa@anu.edu.au

ROBERT AND HELEN CROMPTON AWARD

Nominations are being sought for the Robert and Helen Crompton Award 2014. This Award provides funding of up to \$15,000 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 three to six months. **Applications will open 1 June 2014 and close 30 June 2014.** Please send your application to rspe.hdr.sa@anu.edu.au by 5pm 30 June 2014.

For enquiries and Conditions of Award, please contact the RSPE student office via rspe.hdr.sa@anu.edu.au.

OHS BULLETIN

Training courses

OHS training for supervisors (OHSG28) **26 June**

Hazardous waste safety officer training (OHSA15) **2 July**

Manual handling (OHSG06) **16 July**

Electrical Australian design standards (OHSA24) **21 July**

Ionizing radiation safety - Machines (OHSA19) **22 July**

Self Study (e.g. Laser safety, Chemicals, Corrosives)

For staff or students who just missed an essential ANU training course with months till its run again, you can now request access to the training notes and undertake the exam beforehand. To complete the course and obtain the Certificate you must attend the face-to-face training at the next available course.

To obtain access to these notes you must enrol via HORUS or ISIS and send a request to ohstraining@anu.edu.au

DEPARTMENTAL SEMINARS

Laser Physics Centre

Demonstration of long coherence times in europium-doped yttrium orthosilicate

Final PhD presentation

Manjin Zhong (Grace)

Laser Physics Center

Center for Quantum Computation and Communication Technology

2:00pm Monday 23 June

Seminar Room, Oliphant Link Building

Electronic Materials Engineering

Light that Twists inside fibers

IEEE Nanotechnology Council ACT Chapter, IEEE Photonics Society and Electron Devices Society ACT chapter & EME Department Seminar

Dr Siddharth Ramachandran

IEEE Photonics Society Distinguished Lecturer

ECE Department & Photonics Center, Boston University

11:00 am Thursday 24 June

Seminar Room, Oliphant Link Building