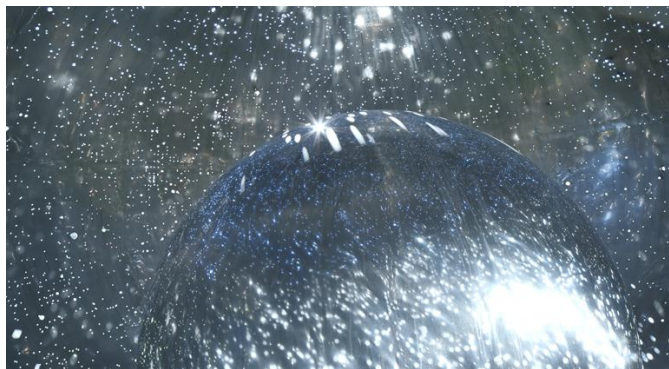




## Research School of Physics and Engineering

Weekly newsletter | Volume 39 Number 29 | 26 July -1 August 2013

### DIRECTOR'S COLLOQUIUM



## Finding Space in a Nonspatial World

**Professor David Chalmers**

Centre for Consciousness, ANU

**12:00 Thursday 1 August**

Leonard Huxley Lecture Theatre

For further information please see:

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

Snacks will be provided at 11:30am prior to the Colloquium RSPE tearoom

### WELCOME

#### **Electronic Materials Engineering**

EME welcomes Dr Fang Fang Ren who completed her PhD in Nianjing University in Niangjing China on the subject of Photonics and will be working with Professor Chennupati Jagadish in the area of Terahertz Metamaterials. Fang Fang can be found in John Carver Bld room J4.11.

### OHS BULLETIN

#### **OfficeMax chair testing**

2-3pm each Wednesday, 10 chairs to try before you order. Work Health Safety HQ, 5 Liversidge St, Building 69

#### **Health and Wellbeing**

Professional help is available on-campus. 1800 808 374

An Employee Assistance program with confidential counselling / crisis support is available 24/7 from an ANU contractor.

### ANU PARKING OFFICE RELOCATION

The ANU Parking Office will be relocating on Monday 12<sup>th</sup> August 2013. The new address will be the Innovations Building # 124, Corner of Eggleston and Garran Roads. Hours of operation: 9am to 4:30pm weekdays.

### CONGRATULATIONS



Congratulations to **Emeritus Professor Rodney Baxter**, who has been awarded the Royal Society's Royal Medal for his breakthrough work in mathematical physics. Rodney did his PhD in the School in Theoretical Physics, and was a long-term staff member of the School prior to his retirement in 2003, also serving as Head of the Department of Theoretical Physics for many years.

The Royal Medal is one of the highest achievements in the Sciences and Rodney joins greats such as **Michael Faraday, Paul Dirac and Francis Crick** as a recipient of this major honour. Coverage of the award can be seen at:

<http://royalsociety.org/awards/medallists/2013>

<http://news.anu.edu.au/2013/07/24/royal-medal-for-remarkable-mathematician/>

Our hearty congratulations Rodney!!

### DEPARTMENTAL SEMINARS

#### **Nuclear Physics Department**

**Assessing soil formation and erosion balances in the Top End with ultra-sensitive isotope tracing**

**Rajeev Lal**

Final PhD seminar Nuclear Physics Department

**11:00am Monday 29 July**

Nuclear Physics Seminar Room

**Isomers in storage rings: the case of <sup>212</sup>Bi**

**Professor Phil Walker**

Director of Research, Head of the Centre for Nuclear and Radiation Physics (CNRP), University of Surrey

**11:00am Friday 2 August**

Nuclear Physics Seminar Room

## **Applied Mathematics**

### **2D / 3D THz Imaging: State of the Art & Current Challenges**

**Dr Benoit Recur**

Lab. Optiques et Matière d'Aquitaine CNRS, Bordeaux

**3:17pm Friday 2 August**

Le Couteur Building Room 3.17

## **STAFF MOVEMENTS**

### **Nuclear Physics Department**

**Professor Emeritus George Dracoulis** will be attending the ATSE Nuclear Energy for Australia Conference being held at the Powerhouse Museum Sydney 25 - 26 July.

**PhD Students Kaitlin Cook and Ian Carter** will be attending the 12th Exotic Beam Summer School 2013 being hosted by Lawrence Berkeley National Laboratory, University of California, US, in the period 28 July to 3 August. **Ian Carter** will also be traveling to the National Superconducting Cyclotron Laboratory, Michigan State University, US, for training and research.

### **Theoretical Physics**

**Professor Vladimir Bazhanov** will travel to Japan from 27 July to 7 August to give an invited talk at the international workshop "Mathematical Statistical Mechanics", to be held at Kyoto University, and to give a colloquium talk at the "Institute of Physics and Mathematics of the Universe" in Tokyo.

### **Atomic and Molecular Physics**

**Professor Anatoli Kheifets** will be overseas from 30 June – 31 August. He will give seminars and conduct collaborative work with Universities of Stockholm and Vienna. He will present his works at the Attosecond Physics Conference in Paris, the Workshop on Intense field-Short Wavelength Atomic and Molecular Processes (ISWAMP) in Xi'an and The International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC) in Lanzhou (China). He will chair a session at the ISWAMP and present a report to the Executive Committee of the ICPEAC on the 2017 conference to be held in Australia.

### **Electronic Materials Engineering**

**PhD student Sahar Mirzaei** will be attending the Synchrotron, Scelerator and Neutron User Symposium in Sydney 25-26 July.

**A/Prof Patrick Kluth, Drs Matias Rodrigues & Boshra Afra and PhD students Daniel Schauries & Allina Nadzri** will be visiting Synchrotron facility in Melbourne conducting experiments 26-29 July

## **Applied Mathematics**

**Ms Mahsa Paziresh** will attend the conference in Belgium and will be away from 29 June - 30 July.

**Dr Drew Parsons and Mr Timothy Duignan** will also attend the Aqua Incognita Debate, and then continue to visit the Marcoule Institute in France. Both are leaving 11 July, Mr Duignan will return 27 July and Dr Parsons on 31 July.

## **PHYSICS EDUCATION CENTRE REPORT**

The first PEC meeting for second semester will be held on **Wednesday 31 July** starting at **3:00 pm** in the Honours Lecture Room in Huxley (adjacent to the School Computing Unit). We will discuss the upcoming RSPE Market Day, ANU Open Day, the Spring Education Planning Day, the impact of the new government requirements on Masters by coursework degrees, and we will have a brief discussion on useful teaching methods from one of our experienced lecturers.

Second semester started Monday 22nd of July. I would like to remind lecturers who have students eligible for supplementary exams from their first semester courses that these exams need to be completed and results should be submitted to the College of Science by the end of the week.

## **PHYSICS PROJECT MARKET DAY**

On Tuesday 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](mailto: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.