



VOLUME 37 NUMBER 12

1 – 7 April 2011

SCHOOL SEMINAR PROGRAM

Thursday 7 April 2011, 4pm

Leonard Huxley Lecture Theatre

Wettability of porous media and applications to oil recovery

Dr Andrew Fogden, Applied Mathematics

Drinks and light refreshments will be provided in the RSPE Link Tea Room, Oliphant Building after the Seminar around 5pm

All staff, students and visitors are cordially invited

CONGRATULATIONS

We congratulate Professor Mahananda Dasgupta, Department of Nuclear Physics who was recently elected as Fellow of the Australian Academy of Science for her distinguished work on complex quantum interactions in collisions of heavy nuclei, that includes pioneering measurements of nuclear fusion with unmatched accuracy and precision.

Congratulations to Dr Mohammad Saadatfar, Applied Mathematics for his recent 'out of rounds' promotion to Academic Level B.

Congratulations to James Dedrick, Plasma Research Laboratory (SP3) for having his paper selected as one of the Highlights of 2010 collection by the Journal of Physics D.

Congratulations to Dr Tibor Kibedi, Professors Andrew Stuchbery and George Dracoulis, Nuclear Physics, for their recent success in the ANU Major Equipment Grant round. The project to upgrade the Super-e for electron-positron pair spectroscopy has received a funding of 175k.

WELCOME

Laser Physics would like to welcome their new Departmental Administrator Sonia Padrun who commenced this week. Karen Nulty who will replace Alison Scott in Student Support. Thanks Alison for your dedicated role.

Please welcome back Professor Dennis Mueller, from the University of North Texas, who will be spending a month working with the CAMS team in the Atomic & Molecular Physics Laboratories.

STAFF MOVEMENTS

The Department of Nuclear Physics advise that:

- Dr Tibor Kibédi will be absent from 2 – 22 April attending as an invited speaker the IAEA Technical Meeting of the International Network

of Nuclear Structure and Decay Data Evaluators, Vienna, Austria and then to Argonne, Illinois, US to attend the CARIBU Workshop Advanced Fuel Cycle Applications, Nuclear Structure and Astrophysics" and for collaborative work.

- Drs Greg Lane and Michael Smith will be absent from 6-18 and 4-18 April, respectively visiting Argonne National Laboratory (Chicago, USA) for collaborative discussions and to prepare detector systems for future experiments at the recently commissioned CARIBU radioactive ion beam facility. They will subsequently attend and give presentations at the Advanced Fuel Cycle Workshop on "Decay Spectroscopy at CARIBU" from 14-16 April, while Lane will also chair a session.
- Emeritus Professor George Dracoulis will be absent from 10 – 30 April travelling to China for collaboration and colloquia at the Shanghai Jiatong University, the Lanzhou Institute of Modern Physics and Peking University. At Peking he will also have discussions with Professor C.S. Kiang, Chairman of the Peking University Environment Fund on alternative technologies and energy issues.

The Department of Electronic Materials Engineering advise that Drs Mark Ridgway and Stefan Decoster and Mr Thomas Bierschenk will be absent from 1-4 April to conduct experiments at the Australian Synchrotron in Melbourne.

SCHOOL SEMINARS

EME Seminar

Thursday 7 April, 11.00am

RSPE Link Seminar Room

High-Speed AFM: Scanner Design and Control Issues

Professor Reza Moheimani, University of Newcastle

NP Seminar (Mid-Term)

Monday 4 April, 11.15am

Nuclear Physics Seminar Room

Nuclear Consciousness and Unconsciousness: A Science of Human Meaning in Relation to Experiences of the Nuclear Realm

Dr Michael Edwards, Nuclear Physics

ACT Chapter of IEEE Electron Devices & Photonics Societies and Nanotechnology Council Seminar

Friday 8 April 2011, 11.00am

RSPE Link Seminar Room

III-V Quantum Structures for Infrared Detection



Dr Sarath Gunapala, IEEE Photonics Society
Distinguished Lecturer NASA Jet Propulsion Lab
California Institute of Technology Pasadena, CA,

COURSES AND LECTURES

The Master of Nuclear Science Course

Monday 4 to Friday 8 April

Reactor Science PHYS8202

Lectures by Andrew Stuchbery and Tony Irwin

Tony has extensive experience in the nuclear power industry, and was most recently the Reactor Manager of the OPAL reactor at ANSTO. Tony's lecture on reactor accidents will include a discussion of the Fukushima accident. Call Andrew 52097 for further info.

Honours Lecture Series

Tuesdays, Wednesdays, Fridays, 12.00noon

(Tues 22 Feb – Friday 3 June)

Seminar Room Link Building RSPE

Advanced Electromagnetism

Drs Matthew Hole and Ron Burman

PhD students and staff are invited to attend the Honours lecture series which covers Jackson's famous textbook on the subject.

EDUCATION MATTERS

On Monday we had the RSPE Student Representatives meeting at which representatives from courses express their views to staff. Overall the level of satisfaction was high. Standouts included the Physics of Fluid Flows course which was highly praised by students in all its aspects. Where there were difficulties they could sometimes be attributed to failures in communication between staff and students or between staff. When you have the opportunity to talk to students please enquire after their coursework. Send any feedback to craig.savage@anu.edu.au.