



Volume 37 Number 7
25 February – 3 March 2011

CONGRATULATIONS

Congratulations to Professor Chennupati Jagadish who has been elected as a Fellow of the School of Engineering at The University of Tokyo. This is in recognition of his contribution to the research and education of the school as well as outstanding accomplishments in research and education in the field of engineering.

DIRECTORS COLLOQUIUM

12.30 Thursday 17 March
Leonard Huxley Theatre
The Magnetic Universe
Professor Bryan Gaensler, University of Sydney
Snacks provided at 12pm in the RSPE Oliphant Building tea room. **All students** are expected to attend as part of their physics education program.

SCHOOL SEMINAR PROGRAM

4pm Thursday 3 March
Leonard Huxley Theatre
From Mars to Earth by way of Venus
Dr Frank Mills, Atomic & Molecular Physics Laboratories
Refreshments provided at 5pm in the RSPE Oliphant Building tea room. **All students** are expected to attend as part of their physics education program.

HONOURS LECTURE SERIES

Tuesdays, Wednesdays, Fridays, 12.00noon
(Tues 22 Feb – Friday 3 June)
Peter Baume Lecture Theatre (Building 42a)
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.

STAFF MOVEMENTS

Dr Hua Xia, from PRL will be visiting the Kavli Institute for Theoretical Physics, University of California, Santa Barbara from 21 February to 11 March. She was invited to participate in the program 'Nature of turbulence'. Dr Xia will give a seminar on 'Turbulence in fluid layers' and will conduct collaborative research with the other participants of the program.

PURPLE SHIN COMPETITION 2011

The ANU Purple Shin competition, established in 1973 which runs until September is due to kick off in April and Real Fisica (RSPE & RSES) are recruiting players. This competition gives the opportunity for ANU staff and students to put their skills to the test against other ANU

staff. The skill level of the competition ranges from first time players to current and former ACT state league players. The competition is a great way to meet new people from other areas on campus. Please contact cormac.corr@anu.edu.au if you are interested.

EDUCATION MATTERS

The result of our discussions over the past year about new RSPE majors and minors follows. Comments welcome: craig.savage@anu.edu.au

Major in Physics

Advanced Physics 1 or
Foundations of Physics, and Advanced Physics 2
18 units of group B physics courses
18 units of group C physics courses

Major in Theoretical Physics

Advanced Physics 1 or
Foundations of Physics, and Advanced Physics 2.12
units of group B physics courses.
Either: Programming for scientists or an additional group B physics course or Mathematical Methods 1 Honours.
Theoretical Physics and Advanced Theoretical Physics.
Either: an additional group C physics course or Topics in Mathematical Physics or Scientific Computing.

Major in Mathematical Physics (with MSI)

Mathematics & Applications 2 Honours, and
Advanced Physics 2.
Either: Mathematical Methods 2 Honours or
Partial Differential Equations & Applications.
Quantum Mechanics, and Electromagnetism.
Advanced Theoretical Physics.
Two of: Differential Geometry Honours; Algebraic
Topology Honours; Topics in Mathematical Physics
Honours.

Minor in Physics

24 units in physics, no more than
12 units being group A.

Minor in Optics (requires Physics major)

Either: Electromagnetism or Waves & Optics.
Optical Physics.
Two of: Atomic Physics; Microphotonics, Biophotonics &
Nanophotonics; Work Experience in Photonics; Fibre
Optic Communication Systems.

Minor in Chemical Physics

Materials Chemistry.
Either: Thermal & Statistical Physics or Quantum
Physics.
Two of: Condensed Matter Physics, Physical Chemistry,
Spectroscopic Techniques in Biophysical Chemistry,
Physical Aspects of Inorganic Chemistry.

There will also be minors in Astrophysics (RSAA) and
Geophysics (RSES).