



VOLUME 37 NUMBER 34

2 - 8 September 2011

DIRECTOR'S COLLOQUIUM

Thursday 8 September, 12.30

Leonard Huxley Lecture Theatre

Atomic Clocks in Space

Professor Michael Tobar, University of Western
Australia

Snacks provided at 12.00 prior to Colloquium
RSPE Tea Room, Oliphant Building

STAFF MOVEMENTS

Electronics Material Engineering

Dr Sudha Mokkalapati will be attending a conference
in Hamburg Germany 3 - 10 September 2011.

Dr Fouad Karouta will be attending an ANFF
meeting in Adelaide 6 - 8 September 2011.

Plasma Research Laboratory

Professor Christine Charles will be away from 9
September – 23 October to present a few papers at
the IEPC 2011 conference on electric propulsion in
Wiesbaden/Germany (*Australian plasma thrusters*),
carry out collaborative research work for DISSR at
the University of Orleans/France (*hydrogen fuel
cells*) and at the Institute of Microelectronics in
Athens/Greece (*nanotechnology and plasma
processed materials*) and to attend various plasma
propulsion related meetings in Paris/France
(EADS-Astrium, Onera).

Professor Christine Charles was a guest lecturer at
the 36th International Science School last July in
Sydney and the ISS 2011 book "Light & Matter" is
now available (free download at
<http://www.physics.usyd.edu.au/foundation/iss/iss.s.html>); it includes her chapter "Children of the stars,
plasma is the fourth state of matter" aimed at the
general public and high school students.

Professor Christine Charles's review paper on
"Plasmas for spacecraft propulsion" was selected
as one of the 'Most Cited in the last 2 years' list of 5
and one of the 'Most popular' list of 20 by the IOP
Journal of Physics D.

Dr Matthew Hole of Plasma Theory and Modelling
will be away from 5 – 15 September, giving the
invited opening talk at the 12th IAEA Technical
Meeting on Energetic Particles in Magnetic
Confinement Systems, and attending a meeting of
International Tokamak Physics Activity Energetic
Particle Physics Topical Group, which operates
under the auspices of ITER.

WELCOME

Plasma Research Laboratory

The Space Plasma, Power and Propulsion
Laboratory would like to welcome RF engineer
Andrew Bish. Andrew will work on the Australian
Plasma Thruster project within the \$4 million
Australian Space Research Program grant won by
Professor Rod Boswell and his colleagues. The
space qualification of the thruster will take place in
a Space Simulation Facility to be built at Mt
Stromlo. The consortium members include EADS-
Astrium (France), the Surrey Space Center (UK)
and Vipac (Australia).

Plasma Theory and Modelling would like to
welcome Dr Graham Dennis, who started a
postdoc on August 29 working on an ARC funded
project, "Emergence and control of self-
organisation in fusion plasmas: through ITER and
beyond", led by Dr Matthew Hole, Em. Prof Robert
Dewar and Dr Boyd Blackwell. Graham will help
develop, validate and exploit our new 3D multi-
region relaxed MHD code, SPEC, written in a
collaboration between Dr Stuart Hudson of
Princeton Plasma Physics Laboratory and the
ANU. Project physics aims include description of
helical states in a reverse field pinch, illumination of
edge localised modes, and investigation of the
control of magnetic surfaces in the H-1 heliac.

Electronics Material Engineering

The Department of Electronic Materials
Engineering would like to welcome Dr Felipe
Kremer who has commenced a post doctoral
fellowship with Dr Mark Ridgway.

The Department of Electronic Materials
Engineering would like to welcome Miss Qian Gao
who has commenced a PhD with Professor
Jagadish.

VISITORS

Laser Physics Centre

Professor Sunao Kurimura, National Institute for
Materials Science (NIMS), Japan, is visiting Laser
Physics centre for a Seminar on Monday 5
September.

DEPARTMENTAL SEMINARS

Laser Physics Centre

Monday 5 September, 11.00am

LeCouteur Seminar Room

Progress in NLO materials and devices in Japan

Professor Sunao Kurimura, National Institute for
Materials Science (NIMS), Japan



Plasma Research Laboratory

Tuesdays & Thursdays, 11.30 am

Room 325 Oliphant Building

Teaching basic physics for space, processing and fusion plasmas (interactive plasma talks)

Professor Rod Boswell

Fridays, 1.15 to 2 pm

Room 325 Oliphant Building

"Hands on" lectures on Music Harmony

Professor Christine Charles

EDUCATION BULLETIN

The Physics Education Centre ran the first of this semester's meetings with class representatives last week. Overall feedback was very positive, although the students highlighted a few areas for improvement in terms of class and assessment organization and lab equipment. Thanks to all those class reps and lecturers who attended.

OHS BULLETIN

OHS Training Courses

9 September Flammable Liquids

Enrol ohstraining@anu.edu.au

SHORT TERM PARKING

Could everyone please note that the two hour parking spaces to the front of the Oliphant Building are for visitors. Staff and students should purchase a permit and park in the appropriate places.