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FROM THE DIRECTOR'S OFFICE

The new Dean of the College of Physical and Mathematical Sciences, Professor Andrew Roberts, is visiting the School on Monday 10 September to tour our facilities and meet our senior staff at a luncheon.

The School Forum will be held next Friday 14 September at 9am in the Conference room.

DIRECTOR'S COLLOQUIUM



Chronology in the first few hundred million years of the Solar System revisited

Prof. Michael Paul's Colloquium "Chronology in the first few hundred million years of the Solar System revisited" took the audience on a journey through the time of the Universe. Staff and students were inspired by the creative ways to measure the time of the evolution of planets and stars. Prof. Paul presented a wonderful perspective of the creation of the elements and the chronology of stellar objects being measured by the decay of long and short lived isotopes of chemical elements. Although we will have to rethink the meaning of "long" and "short", we certainly have a much more comprehensive view on our solar system.

CONGRATULATIONS

Professor Chennupati Jagadish (Secretary A, Physical Sciences) and Professor Marilyn Renfree (Secretary B, Biological Sciences)

were appointed as Vice-Presidents, at the Australian Academy of science, until the conclusion of 2013 Annual General Meeting.

MEMORIAL

Dr Kailash Kumar 1933-2012

Kailash Kumar was born in Uttar Pradesh, India, on 24 November 1933 and died in Sydney on 30 August 2012. He received his BSc and MSc degrees from Agra University and Allahabad University, respectively before obtaining a Commonwealth Scholarship to undertake a PhD at McMaster University, Hamilton, Canada. His supervisor was Melvin Preston and he obtained a PhD from McMaster University in 1956 at the early age of 22. Following his PhD, Kailash was a lecturer at McGill University, Montreal, Canada and then an Assistant Professor at Purdue University, USA, for about 12 months on each occasion. He then returned to India, where he became a Visiting Fellow at the Tata Institute for Fundamental Research, then under the directorship of Homi Bhabha, for two years, 1958-60.

In 1960, at David Peaslee's suggestion, he came to the Department of Theoretical Physics, Research School of Physical Sciences, as a Visiting Fellow. During this period he completed his book entitled 'Perturbation Theory and the Nuclear Many Body Problem', published by North Holland, Amsterdam in 1962. Following a brief return to India, he was appointed in 1963 as a Fellow in the same department. Kailash was promoted to Senior Fellow in 1967 and remained a valued staff member of the Department of Theoretical Physics until his retirement in 1996. From 1997 until 2009 Kailash continued to contribute to the Department as a Visiting Fellow.

During Kailash's membership of the Department of Theoretical Physics, he worked and made important contributions to several many body problems involving atomic nuclei and particle transport equations by the application of kinetic theory and other mathematical methods. For many years he was a member of the editorial board of the journal 'Transport Theory and Statistical Physics', published by Taylor and Francis.

Many members of the Research School are saddened by the rather sudden passing of Kailash, a humble and kind person, who will always be missed.

Mukunda Das and Brian Robson,
Theoretical Physics

WELCOME

Welcome **Dr. Guilherme Hanninger**, a young post-doctoral fellow from the University of Melbourne will be here on Monday 10 September to present a seminar about the Higgs Boson searched with ATLAS, see NP Seminar notification, all welcome to attend.

Prof Michael Paul, Racah Institute of Physics, Hebrew University, Israel, is visiting the Department of Nuclear Physics until the 15 September for Collaboration to finalize previous work on the 244Pu, MACS, CoDustMas with the AMS group, Head of Group Prof Keith Fifield, and to discuss further projects. Prof Paul also presented the Director's Colloquium.

SCHOOL SEMINAR

*To infinity and beyond:
Progress of the Australian Plasma Thruster*

Rod Boswell
Space Plasma Power and Propulsion, RSPE, ANU
4pm, Thursday 20 September
Leonard Huxley Lecture Theatre



Refreshments will be held in the Tea Room after the Seminar (around 5pm) ALL WELCOME

DEPARTMENTAL SEMINARS

Nonlinear Physics Centre

Nonlinear localization, controlled transport, and collapse suppression in Bose Einstein condensates

Jasur Abdullaev

PhD student, Nonlinear Physics Center

11am, Monday 10 September

Link Bldg Seminar Room, Oliphant Bldg

PHD MID-TERM SEMINAR

Lanthanide Luminescence Materials and Time-resolved Biophotonics

Dr. Dayong Jin

Macquarie University, Sydney

11am, Monday 24 September

Oliphant Bldg Seminar Room

Nuclear Physics

Higgs Boson searches with ATLAS

Dr Guilherme Nunes Hanninger

Research Fellow Experimental Particle Physics

University of Melbourne

11:15am, Monday 10 September

Nuclear Physics Seminar Room

STAFF MOVEMENTS

Applied Mathematics

Tim Senden, Adrian Sheppard and **Tim Sawkins** will be away from 6 to 14 September. During this time they will be upgrading an ANU-designed CT Facility in Europe

Prof Vince Craig will be Acting Head of Department during this time.

Drew Parsons will be away from the department for the period 31 August to 28 September to attend the ECIS 2012 Congrex in Sweden.

Electronic Materials Engineering

Dr Jiandong Ye will be visiting the Physics Department & Centre for Materials Science and Nanotechnology at the University of Oslo, Norway and also attending the International Conference on Zinc Oxide and Related Materials in Nice from 10/9-16/9/12.

Plasma Research Laboratory

Dr Matthew Hole will be away from Sep. 3 - Oct. 25, on collaborative research visits to ITER (France), Culham Centre for Fusion Energy (UK), Nation Fusion Research Institute (Korea), and presenting at the 24th Fusion Energy Conference and 1st DEMO meeting of the IAEA (US).

Nuclear Physics

Dr David Weisser, will be overseas in the period 28 Aug to 23 Sept. Whilst overseas Dr Weisser will be presenting a talk at the 3rd International Symposium on Negative Ions, Beams and Sources, being held at the University of Jyväskylä, Finland, 3 - 7 Sept 2012.

Dr Matthew Reed, will be away until the 13 Sept. Dr Reed will be attending the experiment "Deep-Inelastic Reactions with the IGISOL Technique for the Production of Heavy Neutron-Rich Isotopes, taking place at the University of Jyväskylä, Finland, in the period 27 Aug to 2 Sept.

Mechanical Workshop

Craig Young, Manager of the Mechanical Workshop is on leave until October. **Stephen Battison** will be acting in this role for the next couple of months.

Atomic and Molecular Physics Laboratories

Prof. Anatoli Kheifets will be overseas from 19 August to 21 September. He will present invited talks at the same International Conference on Many Particle Spectroscopy of Atoms, Molecules, Clusters and Surfaces and at ISEMS2 as well. He will also present a hot topic to the International Conference on Electron Spectroscopy and Structure in Saint Malo, France. Between the conferences, Prof. Kheifets will be carrying out collaborative work with the group of Atomic and molecular physics of unbound systems at the Universidad Autónoma de Madrid.

THE DIRECTOR'S AWARD

Each year there are so many people who contribute to the RSPE to make it the success it is, the Director wishes to recognise these important contributions to the school. The Director's awards aim to acknowledge and thank those who have gone above and beyond.

All members of the RSPE are eligible to be nominated, including staff, students and visiting fellows. Everyone is encouraged to discuss potential nominees with their Heads of Department and Managers who can email nominations to the Director's Office (Director@physics.anu.edu.au) **by 5pm Monday 24 September 2012**

Awards can be given to individuals or teams and up to five will be presented at the RSPE Founder's Day celebration on Friday 12 October. The awardees will be presented with a commemorative certificate and a trophy, let the nominations begin!

TOM RHYMES TECHNICAL DEVELOPMENT AWARD

The School seeks applications from technical staff in the School for the annual Tom Rhymes award. This award was established to celebrate the life of the late Dr. Tom Rhymes, an alumnus and former School Facilities and Services Manager.

The annual award consists of a monetary prize together with a certificate. The Award is intended to assist one or more outstanding technical staff members of RSPE with their career development.

Applications should submit a completed Tom Rhymes Award application form to the RSPE School Manager by **Monday 24 September 2012**.

JOHN CARVER SEMINAR SERIES

Please be reminded that the John Carver Seminar Series will be held on Tuesday, 11 September in Leonard Huxley Lecture Theatre. The talks will start at 9.25 am.

Could you please RSVP by next Monday lunchtime (12pm) if you are attending for catering purposes.