



Research School of Physics and Engineering

Weekly newsletter | Volume 39 Number 48 | 6-12 December 2013

CHRISTMAS MINCE PIES

Please join us for morning tea

10:30am Friday 20 December

RSPE Tearoom.

Merry Christmas



DIRECTOR'S COLLOQUIUM

The final Director's Colloquium for 2013, entitled "**Floating on Air**", was delivered on Thursday the 5th of December by **Prof Detlef Lohse** of the Department of Applied Physics at the University of Twente, The Netherlands.

Professor Lohse's talk was a tour de force of the fluid dynamics of droplets and jets combining incredible high speed images, analytical theory and numerical simulation to illustrate and enlighten the fundamental processes taking place during the impact of droplets with hot and cold surfaces of different characteristics and the formation of jets. The circumstances that govern splashing, the Leidenfrost effect, bubble encapsulation and jetting were clearly elucidated in an engaging presentation.



ANU ALUMNI AWARDS 2014

The nominations for the '2014 ANU Alumni Awards' closed on Saturday 30th November. Thank you all for your contribution and support. RSPE has put forward five nominations. The outcomes of the nominations are expected to be released in January 2014. For any enquiries, contact Kavitha Robinson, E: kavitha.robinson@anu.edu.au

CONGRATULATIONS

Congratulations to **Dr Rose Ahlefeldt** for winning a prestigious Fulbright Postdoctoral Fellowship. Rose, who works in Matts Sellars' group, will spend 9 months at Montana State University in Bozeman from March 2014. She will be working with Professor Rufus Cone and Dr Charles Thiel, trying to identify and eliminate the sources of disorder in rare earth crystals to make better quantum devices using these crystals. Rose continues a strong tradition within RSPE of successful Fulbright Fellowship applicants and we wish her well in beautiful Montana!

2013 ANU SCAPA ANNUAL AWARDS

Professors Nanda Dasgupta and Ping Koy Lam were presented the 'University Award for advancing the reputation of the University through media' at the ANU Strategic Communication and Public Affairs (SCAPA) Annual Awards on Wednesday 4 December. The SCAPA Awards aim to acknowledge staff members who have played a significant role towards media, communications and outreach at the ANU.

WELCOME

Electronic Materials Engineering

Welcomes Mykhaylo Lysevych as its new MOCVD Process Engineer. Mykhaylo will remain in office C4.46 until his office is ready in the MOCVD Mezzanine level.

STAFF MOVEMENTS

The JAG Research Management Officer, **Barbara Bowen**, has taken up a new position with the College of Asia and Pacific and will no longer be providing research management for RSPE. Advertising has commenced and a new appointment should be in place by early January 2014.

RSPE School Manager **Mr Rana Ganguly** is on leave from 8 December-15 January. **Ms Kavitha Robinson** will be Acting School Manager.

DEPARTMENTAL VISITOR

Non Linear Physics Center

Dr Frank Setzpfandt, a visitor from Friedrich-Schiller-Universität Jena, Germany, is arriving today for a two week visit with NLPC.

He will have a desk in L2.06 Telephone – 58095

Email – f.setzpfandt@uni-jena.de

Dr Alexander Poddubny, a visitor from NRU for Information Technologies, Mechanics and Optics, Russia is arriving today for a three week visit with NLPC.

He will have a desk in L1.29 Telephone – 57849

Email – anpoddubny@gmail.com

DEPARTMENTAL SEMINARS

Laser Physics Centre /QCQ2T Seminar

Increasing the scalability of rare-earth-ion quantum hardware

Final PhD seminar

Mr John Bartholomew

Laser Physics Centre

10:00am Monday 16 December

RSPE Seminar room

Nuclear Physics Department

The Fast Reactor Nuclear power for today and the future

Bill Gemmell

(Formerly with the Atomic Energy Authority (UK) and the Australian Atomic Energy Commission)

11:00am Monday 16 December

Nuclear Physics Seminar Room

Atomic & Molecular Physics

Quantum Information Science with Trapped Ca+ Ions

Professor Rainer Blatt

Institute for Experimental Physics, University of Innsbruck,

Institute for Quantum Optics and Quantum Information,

Austrian Academy of Sciences

2:00pm Monday 16 December

RSPE Seminar Room

OHS BULLETIN

The much anticipated ANU Electrical Safety Policy update V.8 2013 has been released.

<http://hr.anu.edu.au/documents/staff-health-and-wellbeing/ohs/electrical>

RSPE SOCIAL CLUB

RSPE Social Club is kicking off with lots of events, so come along, meet some new people and have fun! All students and staff are welcome.

Wednesday 11th December: Our regular afternoon tea will be running from 3:30pm in the RSPE tea room with treats to help you refuel mid-week. To join the RSPE Social Club mailing list email nian.jiang@anu.edu.au

Friday 13th December: A free **BBQ from 5:30pm in the RSPE BBQ area**, preceded by **short lab tours** of the AMPL/CAMS positron lab and EME's MOCVD, meeting in the RSPE tea room at 5pm. Please RSVP to jenny.nianjiang@anu.edu.au; let us know about any dietary needs, vegos will be catered for!

As an optional extra, join us in supporting the RSPE-based band Zoopagoo from 8pm as they celebrate a spooky Friday 13th at ANU Bar. Entry is \$20 or \$15 with a monster-themed costume!

MOVEMBER

Gen Mo - MoFisica Style

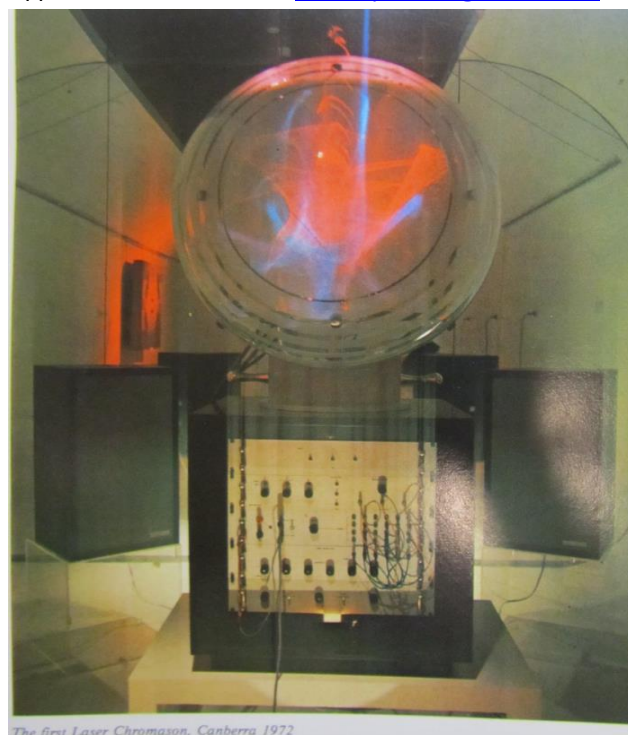
The blades have come out and dashed those striking good Mo's from those devilish handsome men. The MoFisica team raised \$1527 for the cause and ranked number 2707 in Australia. That is fantastic for a team of five daring adventurers, but we couldn't have done it without the support from the good people of Physics and Engineering, so a big thank you to those that supported us.



LOST ARTWORK

The work "Laser Chromason", shown below, was built at RSPHysSE in collaboration with Creative Fellow **Stan Ostoja-Kotkowski** in 1971. Tony Oates, the curator at the ANU Drill Hall Gallery is trying to find the work for an exhibition. There is reason to believe it was somewhere in the School in the early 80s. If he knew it has been destroyed he could stop looking for it. Or it may be boxes somewhere. Any clues that might help construct a timeline would be greatly

Appreciated. Please email Anthony.Oates@anu.edu.au.



The first Laser Chromason, Canberra 1972

