



Welcome

Dear Members, welcome to the eleventh edition of the ARCNN News.

The **Nanotechnology Web Based Forum is now live**. This Nano Forum has been set up to create and stimulate discussion on nanotechnology. We encourage all members to register. To register please go to <http://forum.ausnano.net.au/>

We would like to urge all group leaders to participate and add their Facilities and infrastructure to our **Facilities and Capabilities webpage**. The aim of this database is to be a first access site to all the Nano Infrastructure facilities and capabilities available to nano researchers .

A Lecture by Professor Pallab Bhattacharya, James R. Mellor Professor of Engineering, from the University of Michigan was held at the ANU on the 13th of December. His Talk entitled "Spin-Based Semiconductor Heterostructure Devices" is available on CD and for those wishing to get a free copy please send an email to Liz or Ilonka at arcnn@ausnano.net.

The ICONN proceedings CDs have now been processed and sent out to all the delegates that attended the conference. If you would like an extra copy of the proceedings CD please contact Liz or Ilonka.

Preparations for ICONN 2008 are already underway and we intend to introduce Best Oral Paper awards also at the next conference.

Best wishes to you all for the Festive and Holiday Season.

C Jagadish, Convenor

Update profiles, address changes etc

Please remember to **advise address and email changes** so that the ARCNN member database is kept up to date. Your current details can be checked on your online profile at <http://www.ausnano.net/index.php?page=profiles>.

If you have not submitted an online profile, we would encourage you to do so as this provides a valuable resource for researchers seeking **collaboration** with people who have experience or expertise in a particular nanotechnology area. A **search facility** is provided on the Members Profiles webpage. Researchers looking to fill postdoc **positions** may also use the member database to locate students with research interests and experience in particular fields.

Japan/Australia nanomaterials workshop report by Prof Neville Fletcher

On November 20 a small joint workshop was held in Canberra, sponsored by DEST and the Academy of Science, to explore areas for collaboration between the two countries in nanomaterials. There were four Japanese delegates, two from the International Institute of Advanced Studies in Kyoto, one from Tsukuba, and one from the University of Tokyo, together with four invited Australian delegates from the Universities of Queensland, New South Wales, Western Australia, and ANU. In addition there was a representative from each of ANSTO, CSIRO and DSTO participating in the discussion. It was illuminating for both countries to learn of current and planned research activities, and it appears that there are many opportunities for future collaboration. Abstracts of the workshop presentations are available through the Academy website at www.science.org.au/events/australiajapan/index.htm . Members of ARCNN are also encouraged to consult the website of the Japanese nanonetwork at www.nanonet.go.jp/english/ and our Japanese colleagues have been invited to join the ARCNN.

ARCNN Overseas Travel Fellowships – 1st Round 2007

The 1st round of the ARCNN Overseas Travel Fellowship for 2007 applications will be due in February 2007. If you are interested in applying for this fellowship please go to http://www.ausnano.net/content/overseas_travel

Distinguished Lecturer Tour planned for February

Professor Jacob Israelachvili from the Dept Chemical Engineering, University of California will be touring Australia as an ARCNN lecturer from the 9th -16th of February 2007. He will be visiting Sydney, Canberra, Adelaide and Melbourne.

Professor Israelachvili is internationally renowned for his research work on intermolecular and surface forces, particularly for the device that he invented (the Surface Force Apparatus) which enables the direct measurement of these forces and related phenomena. Using this apparatus Israelachvili and his co-workers have made many seminal contributions to the understanding of surface and interparticle forces in colloid science, adhesion, biophysics, liquid structure under confinement, microfluidics and nanotribology. Israelachvili is the author of around 300 scientific publications and his work has been cited more than 25,000 times. He is also well known to countless research students and researchers as the author of the most popular monograph on this topic. And he has the unusual distinction of having been elected to national academies of science in three countries – Australia (FAA), USA (NAS as well as NAE) and the UK (FRS). For further information, please visit the ARCNN website: www.ausnano.net .

Journal Special Issues

Special Issue on Luminescent Nanomaterials - Call for Papers

The aim of this special issue of Journal of Nanomaterials is to bring to readers a multifaceted view of luminescent nanomaterials, a newly emerging field providing challenges to fundamental research and opportunities for novel applications. Luminescent nanomaterials come in many forms such as quantum dots, nanoclusters, tubes, wires, cages, balls, and

nanostructured units. You can also access it through the following URL:
<http://www.hindawi.com/GetPage.aspx?journal=jnm&page=LN>

Upcoming ARCNN Supported Events

The Interaction Energies and the Structure of Surfaces and Nano Structures Workshop - RMIT University from 19-21st February 2007. Details can be found at
<http://www.rmit.edu.au/applied-sciences/workshop>

The Nanostructures for Electronics Energy and Environment (Nano-E3) workshop and school - South Stradbroke Island from the 3-7th September . Details can be found at
<http://www.scientificambitalia.org/events06/nanows.html>

Other Overseas Nano events

The Third International Conference on Advanced Materials and Nanotechnology (AMN-3) will be held in Wellington, New Zealand during 11-16 Feb. 2007. Conference will cover all aspects of advanced materials and nanotechnology. Plenary Speakers include Prof. Sir John Pendry and Nobel Laureates Prof. Stephen Chu and Prof. Sir Harry Kroto. Further information about the conference can be found at <http://www.macdiarmid.ac.nz/AMN3>

ARCNN Admin Contacts

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For further information regarding ARCNN or any events, please contact Liz or Ilonka, or go to www.ausnano.net